G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE(FOR WOMEN)

SELF ASSESSMENT REPORT(TIER - I) FOR Electronics & Communication Engg.

Part A : Institutional Information

1 Name and Address of the Institution

G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE(FOR WOMEN),
SHIKPET,HYDERABAD

2 Name and Address of Affiliating University

3 Year of establishment of the Institution:

1997

4 Type of the Institution:

○ Institute of National Infortance	◉ Autonomous
○ University	○ Any other(please specify)
○ Deemed University	

5 Ownership Status:

○ Central Government	☑ Trust
○ State Government	☐ Society
○ Government Aided	☐ Section 25 Company
◉ Self financing	☐ Any Other(Please Specify)

6 Other Academic Institutions of the Trust/Society/Company etc., if any

Name of Institutions	Year of Establishment	Programs of Study	Location
G.Pulla Reddy Engineering	1984	UG(B.Tech Civil, MEch, EC	Kurnool, Andhra pradesh
The School of Innovation a	2022	PGDM in Business Analytic	Hyderabad, Telangana Stat
G.Pulla Reddy Pharmacy C	1994	B.Pharmacy, Pharm.D, M.P	Hyderabad, Telangana stat
G.Pulla Reddy Dental Colle	2006	BDS, MDS	Kurnool, Andhra Pradesh
G.Pulla Reddy Degree & P	1994	UG (Bsc, B.Com, BBA), PG	Hyderabad, Telangana Stat

7 Details of all the programs being offered by the Institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
M.Tech (Digital Electronics and Communication Engineering)	PG	2007	2007	18	Yes	12	Granted accreditation for 3 years for the period (specify period)	2022	2025	No	2

Sanctioned Intake for Last Five Years for the M.Tech (Digital Electronics and Communication Engineering)

Academic Year	Sanctioned Intake
2023-24	12
2022-23	12
2021-22	18
2020-21	18
2019-20	18
2018-19	18

B.Tech (Electronics and Communication Engineering)	UG	1997	1997	60	Yes	192	Granted accreditation for 3 years for the period (specify period)	2021	2024	Yes	4

Sanctioned Intake for Last Five Years for the B.Tech (Electronics and Communication Engineering)

Academic Year	Sanctioned Intake
2023-24	192
2022-23	191
2021-22	194
2020-21	180
2019-20	180
2018-19	180

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science & Engg.
2	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
3	Under Graduate	Engineering & Technology	Electronics & Telematics Engg.
4	Under Graduate	Engineering & Technology	Information Technology
5	Under Graduate	Engineering & Technology	Electrical and Electronics Engineering

9 Total number of employees

A. Regular* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	57	61	57	61	54	59
Faculty in Engineering (Female)	124	129	113	124	101	114
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	10	13	10	11	11	12
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	37	42	36	38	31	36
Non-teaching staff (Male)	37	40	32	36	31	33
Non-teaching staff (Female)	50	55	43	48	37	44

B. Contractual* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)						
Faculty in Engineering (Female)						
Faculty in Maths, Science & Humanities teaching in engineering Programs (Male)						
Faculty in Maths, Science & Humanities teaching in engineering Programs (Female)						
Non-teaching staff (Male)						
Non-teaching staff (Female)						

10 Total number of Engineering students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☑ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☐ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	0	0	0
Total no. of Girls	3821	3495	3251
Total	**3821**	**3495**	**3251**

Engineering and Technology- PG Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	0	0	0
Total no. of Girls	56	54	81
Total	**56**	**54**	**81**

11 Vision of the Institution:

To become a center of quality education in Engineering and Technology for women empowerment.

12 Mission of the Institution:

To fulfill the academic aspirations of women engineers for enhancing their intellectual capabilities and technical competency.

To Leverage Leading – Edge Technologies and cultivate exemplary work culture.

To facilitate success in their desired career in the field of engineering to build a progressive nation

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr.K.Ramesh Reddy
Designation	Principal
Mobile No.	9849422460
Email ID	principal@gnits.ac.in

NBA Coordinator, If Designated

Name	Dr.K.Rama Linga Reddy
Designation	Professor & Dean Academics
Mobile No.	9391045077
Email ID	kattareddy2000@yahoo.com

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	86.61
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	170.80
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	47.24
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**955**

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To become a center of quality education in Engineering and Technology for women empowerment.
Mission of the institute	To fulfill the academic aspirations of women engineers for enhancing their intellectual capabilities and technical competency. To Leverage Leading – Edge Technologies and cultivate exemplary work culture. To facilitate success in their desired career in the field of engineering to build a progressive nation
Vision of the Department	VD: Electronics and Communication Engineering department envisions to develop high quality and technically competent women engineers who can address the growing challenges in the modern world with a keen sense of social responsibility.
Mission of the Department	

Mission No.	Mission Statements
M1	MD1: To provide Knowledge based Engineering Education (Quality)
M2	MD2: To provide Analysis and Design Skills with Modelling Potential, Technical Competence
M3	MD3: To provide Industry Compatibility and Women Empowerment with Societal Commitment
M4	MD4: To provide Professional Career Growth with Values and Ethics

1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	PEO1: Imparting the knowledge of Basic Sciences, Mathematics and Programming Skills in solving various engineering problems pertaining to the field of Electronics and Communication Engineering.
PEO2	PEO2: Training the students in analysing, designing and imparting research based knowledge and acquainting them with modern scientific tools.
PEO3	PEO3: Creating professional, ethical environment and inculcating effective communication skills.
PEO4	PEO4 : Encouraging teamwork and interdisciplinary ideas benefiting the society.
PEO5	PEO5: Motivating students to be independent with a desire for life-long learning and adapting to the changing professional needs.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

Total Marks 15.00

Institute Marks : 15.00

A.The Vision, Mission and the PEOs of ECE Department are published and disseminated through the following channels.

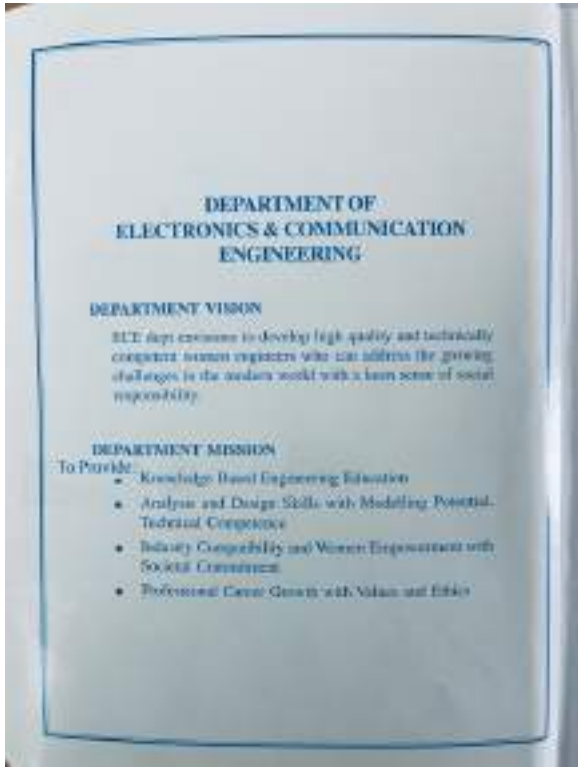
i) Electronic Media

a) College Website [https:https://www.gnits.ac.in/vi (https://www.gnits.ac.in/vision-mission-pos/)s (https://www.gnits.ac.in/vision-mission-pos/)ion-mission-pos/ (https://www.gnits.ac.in/vision-mission-pos/)]

b) Social Media: Linkedin.

ii) Print Media

a) Listed in Syllabus Books, Course Files and Department Technical Magazine, College Magazine (Sankethika Bharathi).



DEPARTMENT OF
ELECTRONICS & COMMUNICATION
ENGINEERING

DEPARTMENT VISION

ECE dept envisions to develop high quality and technically competent women engineers who can address the growing challenges in the modern world with a keen sense of social responsibility

DEPARTMENT MISSION

To Provide

- Knowledge Based Engineering Education
- Analysis and Design Skills with Modelling Potential, Technical Competence
- Industry Compatibility and Women Empowerment with Societal Commitment
- Professional Career Growth with Values and Ethics

Fig. 1.3.1 Vision, Mission & PEOs in Syllabus Book

Fig. 1.3.2 Vision, Mission & PEOs in Department Technical Magazine

iii) Displayed in Institute & Department Premises like

a) Department Display Boards and Dept. Main Corridors

a) Program Specific Laboratories

c) Dept. HoD Office

d) Program specific Class rooms , Dept. Seminar Hall, Dept. e-class room

e) Dept. Library, Staff Rooms

f) Workshops/Seminars Organized by the Department.

Fig. 1.3.3 Vision, Mission & PEOs display at Main Corridors

Fig. 1.3.4 Vision, Mission & PEOs display at Program Specific Laboratories

Fig. 1.3.5 Vision, Mission & PEOs display at Program Specific Laboratories

Fig. 1.3.6 Vision, Mission & PEOs display at Program Specific Class Rooms

Fig. 1.3.7 Vision, Mission & PEOs display at Dept.e-Class Room

Fig. 1.3.8 Vision, Mission & PEOs display at Dept. HoD Office

B. Direct Communication:

Disseminated to all the stake holders of the Program through

a) Alumni Meets : Communicated to Alumni during Alumni Interactions.
b) Faculty Meetings: All the staff are made aware of the Department Vision, Mission and PEOs during departmental meetings.
c) Student Orientation Programme : Communicated to the newly admitted students and the parents through orientation and induction program.
d) Employers/Industry : Communicated to the Industry/Employers through stakeholder survey.
e) Academic Experts of various committees: Disseminated to various committee experts like College Academic Committee(CAC), Board of Studies (BoS), Department Advisory Committee (DAC), Program Assessment Committee(PAC).

C. Awareness of Vision, Mission & PEOs among the stakeholder

Table 1.4 Publishing, Dissemination of Vision, Mission and PEOs to Stakeholders

Entity	Internal Stake Holders	External Stake Holders
Staff Rooms	√	NA
Classrooms	√	NA
Laboratories	√	NA
Course Files	√	NA
Syllabus	√	NA
Laboratory Manuals	√	NA
HoD Office	√	NA
Department Library	√	NA
Program Assessement Committee	√	NA
Board of Studies	√	√
College Magazine	√	√
Department Magazine	√	√
Website	√	√
Notice boards	√	NA
Surveys	√	√

Table 1.5 Awareness Indicators with stakeholders

PEOs	Alumni	Industry	Faculty	Students	Parents
PEO-1 Basic Engineering Skills	√	√	√	√	√
PEO-2 Research Based Knowledge	√	√	√	√	√
PEO-3 Professional and Personality development	√	√	√	√	√
PEO-4 Teamwork	√	√	√	√	√
PEO-5 Self-learning	√	√	√	√	√

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15) Total Marks 15.00

Institute Marks : 15.00

Process for defining the Vision and Mission of the Department:

The department established the Vision and Mission through a consultative process involving the stakeholders of the department, keeping in view the future scope of the department(societal requirements), and the Vision and Mission of Institute as shown in Fig. 1.4.1. In establishing the Vision and Mission of the department, the following steps were followed:

Step 1: Taking Vision and Mission of the Institute as basis, preliminary meeting of Program Assessment Committee (PAC) was conducted with all the Professors and senior faculty of the department to frame the Vision and Mission of department keeping in view of norms of regulatory bodies such as JNTUH/UGC/ AICTE etc.

Step 2: The drafted Vison and Mission of the department were discussed and fine-tuned in the Department Advisory Committee(DAC) taking the inputs from external stakeholders i.e., industry member, parents and alumni.

Step 3: The identified Vision & Mission elements were approved by Academic Council (AC).

Step 4: After articulating, satisfactory Mission & Vision, Governing Council approval were obtained, then they are published and disseminated to all the internal and external stakeholders.

Fig. 1.4.1 Establishing Vision and Mission

The process for establishing PEOs:

The Program Educational Objectives are statements that describe the expected accomplishments of graduates of the B.Tech program, within a period of 3 years after graduation. These objectives reflect the aspirations of the department and are designed to meet the needs of various stakeholders, including students, employers, and the broader community.

They are established through the following process as shown in the Fig. 1.4.2

1.The PEO statements are established through a consultation process involving all the core constituents of the department. Inputs from all the stakeholders are taken and the basic statements that align with the department Vision and Mission are formed.
2.Department PEO statements are derivative component of Institute Vision and Mission, graduate attributes defined by NBA and also department Vision, Mission.
3.The internal and the external stakeholders periodically assess them in various meetings and contribute in framing or re-framing the PEOs of the department
4.The internal stakeholders are
  a.Management
  b.Governing Council Body members
  c.Faculty members
  d.Students
5.The external stakeholders are
  a.Alumni members
  b.Parents
  c.Industry members
6.Discussions, brainstorming sessions were made among the members in PAC meeting to arrive on PEO statements and the final drafts were prepared.
7.The Program coordinator takes it forward to DAC committee members for their approval.
8.After approval from Academic Council(AC) and Governing council(GC), the PEO statements in the department are published and disseminated to all the internal and external stakeholders.

Fig. 1.4.2 Process for Establishing PEOs

1.5 Establish consistency of PEOs with Mission of the Department (10) Total Marks 10.00

Institute Marks : 10.00

1.5 Establish consistency of PEOs with Mission of the Department (10)

Generate a "Mission of the Department – PEOs matrix" with justification and rationale of the mapping

Note: M1, M2, . . Mn are distinct elements of Mission statement. Enter coorelation levels 1,2 or 3 as defined below:

Level 1: Slight (Low)

Level 2: Moderate (Medium)

Level 3: Substantial (High)

"-": No Correlation

Note: Wherever the word "process" is used in this document its meeting is process formulation, notification to all the concerned, and implementation.

The PEOs have been developed in congruence with the Mission of Department. To establish consistency, the mapping of PEOs with Mission of the Department (MD) is shown on a weighted relationship in Table 1.5.1.

The qualitative relevance is shown as Substantial, Moderate, Slight or No correlation. A numerical weight is assigned in accordance with the designated relevance and is shown along with the correlation.The compatibility of PEO with the Department Mission statements is shown in Tables 1.5.1.

Table 1.5.1 PEOs vs Mission

PEO vs Mission Components	MD1: To provide Knowledge Based Engineering Education (Quality)	MD2: To provide Analysis and Design Skills with Modelling Potential, Technical Competence		MD3: To provide Industry Compatibility and Women Empowerment with Societal Commitment		MD4: To provide Professional Career Growth with Values and Ethics	
Key Aspects	MD 1.1 Knowledge based Engineering	MD 2.1 Analysis and Design Skills	MD 2.2 Potential Technical Competence	MD 3.1 Industry Compatibility	MD 3.2 Women Empowerment	MD 4.1 Professional Career Growth	MD 4.2 Values and Ethics
PEO1: Imparting the knowledge of basic sciences, mathematics and programming skills in solving various Engineering problems pertaining to the field of Electronics and Communications Engineering.	3	2	3	2	2	2	1
	3	3		2		2	
PEO2: Training the students in analyzing , designing and imparting research based knowledge and acquainting them with modern scientific tools.	3	3	2	3	2	3	1
	3	3		3		2	
PEO3: Creating professional, ethical environment and inculcating effective communication skills	2	1	2	2	2	3	3
	2	2		2		3	
PEO4: Encouraging team work and interdisciplinary ideas benefiting the society	2	3	2	3	2	2	2
	2	3		3		2	
PEO5: Motivating students to be independent with a desire for lifelong learning and adapting to the changing professional needs.	2	1	2	1	2	3	2
	2	2		2		3	

Table 1.5.2 Justification for PEOs and Mission

PEOs mapping with Mission Statements	Justification
Justification of Mission M1 mapped with PEO1	• The department has well qualified faculty members and well-equipped infrastructure to impart knowledge aligned with outcome-based curriculum through innovative teaching Pedagogies.
Justification of Mission M1 mapped with PEO2	• Department has Qualified faculty, well equipped software tools that are used in the lab curriculum. Research, Design and analysis subjects are the part of the curriculum. This helps in professional carrier. • Major project of final years are research/prototype based along with few patents Published.
Justification of Mission M1 mapped with PEO3	• The students are motivated to be skilful in basic engineering concepts. • Department curriculum has courses relating to Professional ethics and environment as mandatory courses.
Justification of Mission M1 mapped with PEO4	• The project batches formed in Mini Projects follow Interdisciplinary project batches/teams. • The peer-learning in project teams ensures teamwork which is continuously assessed.
Justification of Mission M1 mapped with PEO5	• The faculty Mentors the students in NPTEL courses for self-Learning. • Students are allowed to do Minor degree in thrust areas like AI/ML/IoT, These concepts provide Life-long Learning and adapt to the change in professional needs.
Justification of Mission M2 mapped with PEO1	• The curriculum contains the tools for Implementation of basic concepts, prototypes and Models. • Analysis of design aspects is done in practical/Lab experiments.
Justification of Mission M2 mapped with PEO2	• The curriculum provides lot of scope for Analysing and designing of concepts for ECE. Students are encouraged to do prototypes for Models as per the Design. • Department has collaborative Research program enriching the students' knowledge for Research based projects.
Justification of Mission M2 mapped with PEO3	• Curriculum supports Advanced english lab which results in effective communication skills and students get the ability to be professional while Modelling the prototype through peer learning.
Justification of Mission M2 mapped with PEO4	• Students are encouraged to participate in National and inter-college competitions, for developing societal projects (SIH, Hackathons) resulting in teamwork and Interdisciplinary Ideas.

Justification of Mission M2 mapped with PEO5	• The Technical competency of students is enhanced with self-learning methods through online & offline Mentoring resulting in adapting to the changing professional needs. • The hands-on training and webinars by renowned speakers are conducted to motivate and know the market trends.
Justification of Mission M3 mapped with PEO1	• The basics learnt by students are applied in Mini, Major projects that address the Societal requirements. • Department encourages students to participate in internships for Industry compatibility and also emphasizes Women Empowerment through placement.
Justification of Mission M3 mapped with PEO2	• Prototypes developed under the guidance of Well-qualified faculty are driven by research with the help of Modern tools for Analysis and Design.
Justification of Mission M3 mapped with PEO3	• Curriculum supports project works through field visits and report professional and ethical environments of the organisation. • This provides a scope to understand the Industry compatibility.
Justification of Mission M3 mapped with PEO4	• Department encourages students to participate in Hackathon their by Industry compatible, Interdisplinary ideas are implemented.
Justification of Mission M3 mapped with PEO5	• Department regularly plans for Industrial visits for students. This helps the students in exploring the Technology trends for deciding the carrier and scope of the Industrial compatibility.
Justification of Mission M4 mapped with PEO1	• Curriculum supports Mandatory course on Values and Ethics. • Fundamentals in Electronics are used in Industrial applications/ Simulations.
Justification of Mission M4 mapped with PEO2	• Department is aware of the Research based knowledge for Professional carrier growth, and accordingly using Modern tools for the projects.
Justification of Mission M4 mapped with PEO3	• Department curriculum gives scope to inculcate professional ethics and improve on communication skills.
Justification of Mission M4 mapped with PEO4	• The faculty are aware of the Interdisciplinary project requirements and allocate project which requires multidisciplinary knowledge resulting in Innovative ideas and patents.
Justification of Mission M4 mapped with PEO5	• Department encourages NPTEL/MOOCs/Coursera etc.. and supports with mentoring by faculty. This approach results in independent carrier planning and growth by students.

PEO Statements	M1	M2	M3	M4
PEO1: Imparting the knowledge of Basic Sciences, Mathematics and Programming Skills in solving various engineering problems pertaining to the field of Electronics and Communication Engineering.	3	3	2	2
PEO2: Training the students in analysing, designing and imparting research based knowledge and acquainting them with modern scientific tools.	3	3	3	2
PEO3: Creating professional, ethical environment and inculcating effective communication skills.	2	2	2	3
PEO4 : Encouraging teamwork and interdisciplinary ideas benefiting the society.	2	3	3	2
PEO5: Motivating students to be independent with a desire for life-long learning and adapting to the changing professional needs.	2	2	2	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

Total Marks 100.00

2.1 Program Curriculum (30)

Total Marks 30.00

2.1.1 State the process for designing the program curriculum (10)

Institute Marks : 10.00

Curriculum design process in the Department of ECE is done considering the following

- National Education Policy (NEP)
- Statutory and Regulatory Bodies (AICTE/ UGC/ OBE/CBCS)
- Accreditation Bodies (NAAC/ NBA)
- UNESCO Curriculum Competencies
- Professional Bodies (IEEE/ IETE/ ISTE)
- Stakeholders' Feedback (Alumnae/ Parents/ Employers)
- Industry Associations
- Emerging Thrust Areas

The curriculum in the Department of ECE is meticulously crafted to uphold exceptional quality, prioritizing a learner-centric approach. We ensure that our curriculum undergoes regular reviews, considering several key aspects

- Vision and Mission of the Institute & Department
- Program Educational Objectives (PEOs)
- Program Outcomes (POs)
- Program Specific Outcomes (PSOs)

The following are the key functional committees in implementing curriculum and reviewing of Course/ Program

- Program Assessment Committee (PAC)
- Department Advisory Committee (DAC)
- Board of Studies (BoS)
- Academic Council (AC)
- Governing Council (GC)

Program Assessment Committee

Program Assessment Committee (PAC) consists of

- Head of the Department (HoD)
- Module Coordinators
- Senior Faculty Members

The PAC, after consulting with the concerned Course Coordinators will recommend changes or revisions in the course content based on the Attainment of Course Outcomes (COs). PAC scrutinizes the Direct and Indirect Attainments of each course based on feedback from the Course Coordinators to revise the course content.

The roles and responsibilities of PAC are as follows:

- Monitoring the attainments of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs)
- Interacting with stakeholders regarding the improvement of POs, PSOs and PEOs
- Evaluating program effectiveness and proposing necessary changes
- Preparing periodic reports on program activities, progress, status or other special reports
- Motivating the faculty and students to interact with the outside world i.e., participate in seminars, workshops, conference, developing projects/ working models and engaging in research activities

Department Advisory Committee

Department Advisory Committee (DAC) comprises the following members

- Head of the Department - Chairperson
- Senior Faculty Members (Internal & External)
- Industry Expert
- Student
- Alumna
- Parent

The Department Advisory Committee (DAC) is formed with the goal of creating a bridge between industry and academics considering the latest requirements of the industry and incorporating necessary components in the curriculum. This committee also guides PAC regarding overall development of the department. The roles and responsibilities of DAC are as follows

- Finalize all academic activities of the department and forwarding to the IQAC for analysing the report of the PAC and monitoring the progress of the program
- Develop and recommend new or revised program goals and objectives
- Discuss current and future issues related to programs as per the guidelines
- Review the feedback given by various stakeholders and course coordinators

Board of Studies

Board of Studies comprises the following members

- Head of the Department – Chairperson
- Affiliating University nominee (JNTUH)
- Senior Faculty Members (Internal & External)
- Industry Expert
- External Academicians
- Alumna (from Industry)

Board of Studies (BoS) takes up planning of the curriculum and the implementation of syllabi.

The roles and responsibilities of the BoS are as follows

- Preparation of curriculum and syllabi for various courses
- Review and update the syllabi from time to time
- Propose methodologies for innovative teaching and evaluation techniques
- Coordinate teaching, research and extension activities in the department

Industry representatives from DAC and BOS are involved in the Design and Revision of the Curriculum.

The Table 2.1.1.1 shows the involvement of Industry Members in the Curriculum

Table 2.1.1.1 Involvement of Industry Members in the Curriculum

Name of the Industry Personal	Designation	Name of the Industry
Dr. KVNSVPL Narasimham	Scientific Officer Group Leader, Electronics Support Group & Training Coordinator	NCCCM/BARC, Hyderabad
Mr. Ram Kumar Voraganti	Chief Executive Officer	PVR Tech Hub, Hyderabad
Mrs. M. Neelima Kumari	Design Engineer	Microchip Technology, Hyderabad
Cdr. Praveen Chandra	Director	Navstar Integrated Systems Pvt. Ltd.
Mrs. Abhinaya Katta (Alumna)	Design Engineer	Xilinx Pvt. Ltd.

The Fig. 2.1.1.1 shows a sample copy of BoS Minutes of Meeting.

Minutes of the **BoS Meeting for B.Tech (ECE) Programme under R22 Regulations at GNITS are listed below :**

1) Dr. D. Venkata... BoS Chair, GNITS, extended a cordial welcome to all the Members of the BoS of ECE Dept. for the Third BoS Meeting and introduced all the Members.

2) The BoS Chair, explained the Course Structure of the UG (B.Tech.) Programme and the % coverage of various group classifications with reference to AICTE recommendations.

3) After lengthy deliberations and progressive discussions, all the Members of the BoS of ECE unanimously approved the following:
   a) The Academic Regulations for B.Tech. Programme (with 160 Credits) in ECE Dept (GNITS-R22 UG Academic Regulations, CBCS based), as per contents enclosed.
   b) The Four Year 8 Semester UG Degree Programme Structure for B.Tech. Programme in ECE Department, with a total of 160 Credits, as per contents enclosed.
   c) I Year Course Structure is common to all branches of engineering at GNITS.
   d) The Course Contents and Syllabi of all the Courses/ Subjects of the first semester of the II year B.Tech. Degree Programme in ECE, as per details enclosed.
   e) Inclusion of Honors/ Minor Degree Specialization Programmes as suggested and approved by JNTUH.

4) The BoS Members - Dr. D. Srinivasa Rao (Univ. Nominee) and Dr. M. Asha Rani, suggested minor modifications in the following Course Titles of B.Tech. ECE, which are implemented in ECE Curriculum. The modifications suggested are listed at the end.

5) The following suggestions were made by Dr. M. Asha Rani :
   a) To request JNTUH for inclusion of ECE Department related domains – like **Embedded Systems, VLSI** (with Industry Support for Syllabi/ Training/ Internship) for Honours Degree in ECE.
   b) To request **JNTUH for approval** to offer Minor Degree in "Computer Communications" domain.

6) Cdr. Praveen [illegible] (BoS Member from Industry), suggested to include subjects like – "Systems Engineering", "Satellite Communications" at appropriate level in the curriculum if possible. This suggestion is implemented in the B.Tech ECE curriculum.

7) The BoS Committee formally authorized the BoS Chair of ECE Department, to include any minor modifications or corrections needed for the UG (B.Tech) Course Structures, Academic Regulations and Syllabi, at later dates.

8) The BoS Committee formally authorized the BoS Chair of ECE Department to suggest the Panel of Question Paper Setters, Examiners and Evaluators required for all the Subjects/ Courses offered by ECE Department, listed in the UG Course Structures (R22).

9) The BoS Committee also approved the BoS Chair to present the details pertaining to Course Contents and Syllabi of all the Subjects/Courses related to the III and IV YEARS of B.Tech. Degree Course in ECE, at the 4th BoS Committee Meeting of the ECE Department, for necessary approvals.

Fig. 2.1.1.1 BoS Minutes of the Meeting (AY 22-23)

Academic Council

Academic Council comprises the following members

- The Principal (Chairman)
- All the HoDs in the Institute
- Four teachers of the college representing different categories of teaching staff by rotation based on seniority of service in the college
- Not less than four experts/ academicians from outside the college representing such areas as Industry, Engineering, Sciences etc., to be nominated by the Governing Body
- Three nominees of the university not less than Professors
- A faculty member nominated by the Principal (Member Secretary)

Academic Council scrutinizes and approves the proposals of the Boards of Studies regarding the courses of study, academic regulations, curricula, syllabi and modifications. Academic Council recommends proposals of new study programmes to the Governing Body for final approval.

Governing Council

The function of Governing Council is to decide on the overall development of the Institute which includes infrastructure, resource allocation, welfare measures, institute scholarships, medals, prizes and certificates on the recommendations of Academic Council and approval of new programs for the Institute. Governing Council composition is shown in the Table 2.1.1.2 and the members of the Governing Council is shown in the Table 2.1.1.3.

Table 2.1.1.2 Governing Council Composition

Number	Category	Nature
5 Members	Management	Trust or management as per the constitution or by-laws, with the Chairman or President or Director as the chairperson
2 Members	Teachers of the College	Nominated by the Principal based on seniority by rotation
1 Member	Educationist or Industrialist	Nominated by the Management
1 Member	UGC Nominee	Nominated by the UGC
1 Member	State Government Nominee	Academician not below the rank of Professor or State Government official of Directorate of Higher Education/ State Council of Higher Education

Table 2.1.1.3 Members of Governing Council

Name of the Member	Designation of the Member	Category

Sri. G. Raghava Reddy	Chairman, GNITS	Member of the Management Trust
Sri. P. Subba Reddy	Trustee, G. Pulla Reddy Charities Trust	Member of the Management Trust
Mrs. G. Srividya Reddy	Vice-Chairperson, GNITS	Member of the Management Trust
Prof. G. Gopal Reddy	Pro-VC, Mahatma Gandhi Central University, Bihar	Academician
Mrs. Kiranmai Pendyala	Head of Human Resources India SanDisk India Device Design Centre Pvt. Ltd.	Entrepreneur
Dr. V. Venkateswara Reddy	Professor, Civil Engineering JNTUH UCESTH	University Nominee
Dr. K. Rama	Adviser, National Assessment & Accreditation Council, Nagarbhavi	UGC Nominee
Nominee of Dept. of Technical Education	Ex-Officio Member	State Govt. Nominee
Dr. K. Ramalinga Reddy	Dean, Academics & Professor, ETE, GNITS	Teacher of the College
Dr. M. Seetha,	Professor & Dean, R & D, GNITS	Teacher of the College
Dr. K. Ramesh Reddy	Professor in EEE & Principal	Principal of the College

Draft Curriculum: The Program Coordinator along with Course/ Module Coordinators propose a Draft Curriculum. The Draft Curriculum is prepared with the references of peers from National Universities, as well as with the compliance of Course Outcomes (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs), Program Educational Objectives (PEOs) to achieve the Vision & Mission of the Department.

The course structure for the ECE Programme has eight semesters with 5 Theory Courses and 3 Laboratory Courses per Semester (except the 8th Semester).

To make the students more proficient in every course:

- Content Beyond Syllabus, comprising of atleast 2 Advanced Topics, is included in Theory Course
- Additional Experiments/ Hobby Projects are included in Lab Course

This method encourages critical thinking, creativity, and a love for learning by allowing students to explore topics in greater depth and apply their knowledge in practical ways. It's a proactive way to prepare students for real-world challenges and foster a lifelong passion for their fields of study.

Review of the Draft Curriculum: The Draft Curriculum will be reviewed by the Program Advisory Committee (PAC). Department Advisory Committee (DAC) will consider revision/ improvement in the curriculum, if required. The BoS duly constituted as per norms, consisting of members including experts from Academia and Industry, will review the curriculum. The BoS considers revision/ improvement of the curriculum, if required. The Academic Council will consider the recommendations of the BoS and provide suggestions/approval for the program curriculum. The Governing Council will approve the reviewed draft curriculum. The Fig. 2.1.1.2 shows the Process of Curriculum Design.

Fig. 2.1.1.2 Process of Curriculum Design

Process used to demonstrate the evolution of Program Curriculum and periodical review considering the POs and PSOs.

Evolution Process of the Curriculum from JNTUH R16 to GNITS-R18 Regulations

GNITS was affiliated to JNTU, Hyderabad till 2017, and got autonomy in 2018.

The Curriculum Regulations followed from 2016 to 2018 was R16 Regulations affiliated to JNTUH

As GNITS got autonomous status from 2018, the Department of ECE developed the curriculum following the AICTE curriculum guidelines in 2018 (GNITS-R18 Regulations).

The curriculum has undergone a significant review as a standard process adopted in GNITS and was revised in 2022 (GNITS-R22 Regulations).

Table 2.1.1.4 shows the Credit & Non-Credit Courses added in GNITS-R18 Regulations with respect to JNTUH R16 Regulations. In addition to the primary courses in the curriculum (Credit Courses) and complimentary skill courses/ activities (Non-Credit Courses) were included.

Table 2.1.1.4 Credit & Non-Credit Courses included in GNITS-R18 Regulations

Name of the Course	Year & Semester	Description
Credit Courses		
Information Theory & Coding	III/IV, Sem – 1 (Professional Elective 1)	Focuses on the quantification of information, the efficiency of data encoding, and the limits to the compression and transmission of data.
Speech & Audio Signal Processing	III/IV, Sem – 2 (Professional Elective 2)	A fascinating field that focuses on how machines and humans process speech and music signals.

Bio-Medical Electronics	III/IV, Sem – 2 (Professional Elective 2)	An interdisciplinary field that merges the principles of biology, medicine & engineering to develop technologies & devices that can improve healthcare.
Disaster Management	III/IV, Sem – 2 (Open Elective 2)	An interdisciplinary subject that prepares students to effectively manage and respond to various types of disasters.
Computer Networks Lab	III/IV, Sem – 2	Provides hands-on experience with the design, troubleshooting, modeling and evaluation of computer networks.
Electronic Design Lab	III/IV, Sem – 2	Provides practical experience in designing and implementing electronic circuits and systems.
Digital Image & Video Processing	IV/IV, Sem – 1 (Professional Elective 3)	Involves a range of techniques and technologies to improve video quality, compress data, and efficiently transmit video streams.
Project □Phase I	IV/IV, Sem – 1	Project planning, designing & evaluation can be done
Project □Phase II	IV/IV, Sem – 2	Project implementation & evaluation can be done
Entrepreneurship & Project Management	IV/IV, Sem – 2	An interdisciplinary field that combines the principles of starting & managing new business ventures with the skills needed to efficiently manage projects.
Non-Credit Courses		
Games & Sports	I/IV, Sem – 1	Enhances the skills and attitudes of the students

Evolution Process of the Curriculum From GNITS-R18 to GNITS-R22 Regulations

Table 2.1.1.5 shows the Credit & Non-Credit Courses included in GNITS-R22 Regulations. As a consistent curriculum development process, every year curriculum has review and revision, and every three years, the curriculum undergoes a significant review as a standard process adopted in GNITS. In addition to the primary courses in the curriculum (Credit Courses) and complimentary skill courses/ activities (Non-Credit Courses) were included.

Table 2.1.1.5 Credit & Non-Credit Courses included in GNITS-R22 Regulations

Name of the Course	Year & Semester	Description
Credit Courses		
Design Thinking	I/IV, Sem – 1	An interdisciplinary course that can be applied across various fields, from engineering and business to education and social sciences. It encourages risk-taking, creativity, and continuous learning.
Python Programming (Theory & Lab)	II/IV, Sem – 1	To master the essential concepts of data types, tuples, lists, basic operators and functions and also to get the practical knowledge.
Mini-Project I	II/IV, Sem – 2	Mini-project allows the students to apply theoretical knowledge to real-time problems, develop practical skills
Data Science	III/IV, Sem – 1 (Professional Elective 1)	An interdisciplinary field that uses algorithms, procedures, and processes to examine large amounts of data to uncover hidden patterns, generate insights, and direct decision-making.
Artificial Intelligence	III/IV, Sem – 1 (Professional Elective 2)	Encompasses computer science, natural language processing, coding, mathematics, data science, and many other disciplines.
Design for Testability	III/IV, Sem – 2 (Professional Elective 3)	Focuses on integrating testability features into hardware and software product designs.
Green Communication	□III/IV, Sem – 2 (Professional Elective 3)	An innovative research area to find radio communication and networking solutions that can significantly improve energy efficiency and resource efficiency of wireless communications without compromising the QoS of users
Machine Learning	IV/IV, Sem – 1 (Professional Elective 4)	A branch of computer science that uses algorithms to imitate the way in which humans learn
Voice over Internet Protocol	IV/IV, Sem – 1 (Professional Elective 5)	Focuses on the delivery of voice communications and multimedia sessions over Internet Protocol (IP) networks, such as the internet
Wireless Sensor Networks	IV/IV, Sem – 1 (Professional Elective 5)	Networks composed of spatially distributed autonomous sensors to monitor physical or environmental conditions, like temperature, sound, and pressure, and to cooperatively pass their data through the network to a main location.
Machine Learning Lab	IV/IV, Sem – 1 (Linked with Professional Elective 4)	Helps to conduct applied research in the emerging areas of artificial intelligence and machine learning technologies
Sensors & Actuators	IV/IV, Sem – 1 (Open Elective 2)	Sensors & Actuators play a crucial role in automation, making systems more reliable and reducing human error by automating operations.
5G Communication Technologies	IV/IV, Sem – 2 (Professional Elective 6)	5G technology works by modifying how data is encoded, significantly increasing the number of usable airwaves for carriers.
Block Chain Technologies	IV/IV, Sem – 2 (Open Elective 3)	An advanced database mechanism that allows transparent information sharing within a business network.
Introduction to Natural Language Processing	IV/IV, Sem – 2 (Open Elective 3)	NLP is all about making computers understand and generate human language.
□Data Mining	IV/IV, Sem – 2 (Open Elective 3)	Involves exploring & analyzing large blocks of information to a meaningful pattern.
Wearable Devices and Its Applications	IV/IV, Sem – 2 (Open Elective 3)	Evolving into an important category of the Internet of things, with life-changing applications in medicine and other fields.
Systems Engineering	IV/IV, Sem – 2 (Open Elective 3)	A discipline that utilizes an inter-disciplinary problem-solving approach across the entire technical effort irrespective of whether the systems are for military, industrial, commercial or civil applications.
Non-Credit Courses		
Constitution of India	II/IV, Sem – 1	A comprehensive study of the country's supreme law which covers the fundamental rights, preamble, structure of Government etc.,
Human Values and Professional Ethics	II/IV, Sem – 2	An interdisciplinary field that focuses on the ethical principles and values that are essential in professional settings

The Table 2.1.1.6 shows the CO-PO Correlation for GNITS R18 Regulations

Table 2.1.1.6 CO-PO Correlation for GNITS R18 Regulations

Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I Year I Semester														
C101	√	√	√	√	√	-	-	-	√	-	-	√	√	√
C102	√	√	√	-	√	√	√	-	-	-	-	-	-	-
C103	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C104	-	-	-	-	-	√	√	√	√	√	-	√	√	√
C105	√	√	√	-	-	√	√	-	-	√	√	√	-	-
C106	√	√	√	√	-	-	-	-	-	-	-	-	-	-
C107	-	-	√	-	-	√	-	√	√	√	√	√	√	√
I Year II Semester														
C109	√	√	√	-	-	√	√	-	-	√	√	√	√	√
C110	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C111	√	√	√	√	√	-	-	-	√	-	-	√	√	√
C112	√	√	√	√	√	-	-	-	√	-	-	√	√	√
C113	√	√	√	-	√	-	-	-	-	-	-	√	√	√
C114	√	√	√	-	-	√	√	-	-	√	√	√	√	√

C115	√	√	√	-	√	√	√	-	√	-	-	-	√	√
C116	√	√	√	-	-	-	√	√	√	√	-	√	√	√
II Year I Semester														
C201	√	√	√	√	√	-	-	-	√	-	-	√	√	√
C202	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C203	√	√	√	√	-	-	-	-	-	-	√	√	√	√
C204	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C205	√	√	√	√	√	-	-	-	-	√	-	-	√	-
C206	√	√	√	√	-	-	-	-	√	√	-	√	√	-
C207	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C208	√	√	√	√	-	-	-	-	-	-	√	-	√	√
II Year II Semester														
C210	√	√	√	√	√	-	-	-	-	-	√	√	√	√
C211	√	√	√	√	√	-	√	-	-	-	-	√	-	-
C212	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C213	√	√	-	√	√	√	√	-	-	-	-	√	√	√
C214	√	√	√	√	√	√	-	-	√	-	√	√	√	√
C215	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C216	√	√	-	√	√	√	√	-	√	-	-	√	√	√
C217	√	√	√	√	√	√	-	-	√	-	√	√	√	√
III Year I Semester														
C301	√	√	√	√	√	-	-	-	√	-	-	√	√	√
C302	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C303	√	√	√	√	√	-	√	√	-	-	-	√	√	√
C304	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C305	√	√	√	√	-	-	√	-	-	-	-	-	√	√
C306	√	√	√	√	√	-	-	-	-	-	-	-	√	√
C307	√	√	√	√	√	-	-	-	√	√	√	√	√	√
C308	√	√	√	√	√	-	-	-	√	√	-	√	√	√
C309	√	√	√	-	-	√	√	-	-	√	√	√	√	√
C310	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C311	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C315	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C316	-	-	√	√	-	-	√	-	√	√	√	-	-	-
III Year II Semester														
C317	-	-	√	√	-	-	√	-	√	√	√	-	-	-
C318	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C319	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C320	√	√	√	√	√	√	√	√	√	√	-	√	√	√
C321	√	√	√	√	√	-	-	-	√	-	-	-	√	√
C322	√	√	√	√	√	√	-	-	-	-	-	√	√	√
C323	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C324	√	√	√	√	√	√	√	-	-	-	-	√	√	√
C325	√	√	-	-	-	√	√	-	√	√	-	√	-	√
C327	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C332	√	√	√	-	-	√	√	-	-	√	√	√	-	-
IV Year I Semester														
C401	-	-	√	√	-	-	√	-	√	√	√	-	-	-
C402	√	√	√	√	√	√	√	-	-	-	-	-	√	√
C403	√	√	√	√	√	√	-	-	-	-	-	√	√	√
C404	√	√	√	√	√	-	√	-	√	-	-	√	√	√
C405	√	√	√	√	√	-	√	-	-	√	√	√	√	√
C406	√	√	√	√	√	√	√	-	-	-	√	√	√	√
C407	√	√	√	√	√	-	-	-	-	-	-	-	√	√
C408	√	√	√	√	√	-	-	-	-	-	-	√	√	√
C409	√	√	√	√	√	-	√	-	√	-	-	√	√	√
C410	√	√	√	√	√	√	√	√	√	√	√	√	√	√
C411	√	√	√	√	√	√	√	√	√	√	√	√	√	√
C413	√	√	√	√	√	-	√	-	-	-	-	√	√	√
C416	√	√	√	-	-	√	√	-	-	√	√	√	-	-
C417	√	√	√	-	-	√	√	-	-	√	√	√	-	-
IV Year II Semester														
C418	-	-	√	√	-	-	√	-	√	√	√	-	-	-
C419	√	√	√	√	-	-	-	-	-	-	√	√	√	√
C420	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C421	√	√	√	√	-	√	-	-	-	-	-	-	√	-
C422	√	√	√	√	√	√	√	-	√	-	-	√	√	√
C423	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C424	√	√	√	√	-	-	-	-	-	-	-	√	√	√
C425	√	√	√	√	√	√	√	√	√	√	√	√	√	√

C431	-	-	√	√	-	-	√	-	√	√	√	-	-	-
Total No. of Subjects correlated with POs (X)	**71**	**71**	**74**	**64**	**48**	**27**	**40**	**8**	**29**	**25**	**25**	**62**	**65**	**63**
Percentage = ((X/78)*100)	**91.03**	**91.03**	**94.87**	**82.05**	**61.54**	**34.62**	**51.28**	**10.26**	**37.18**	**32.05**	**32.05**	**79.49**	**83.33**	**80.77**

$$\text{Percentage of each PO and PSO} = \frac{\text{No. of Courses mapped with PO}}{\text{Total No. of Courses}} \times 100$$

* PO's/ PSO's > 50% are achievable.

P PO1-PO5, PO7, PO12, PSO1 and PSO2 are achieved with the regular course work.

PO6, PO8, PO9, PO10 and PO11 have not been achieved.

Activities Conducted to achieve the POs and PSOs

To achieve PO6, PO8, PO9, PO10 and PO11, the following Activities have been included in GNITS R18 Regulations as shown in the Table 2.1.1.7. It can be seen that the Activities conducted help in achieving all the POs.

Table 2.1.1.7 The Activities conducted to achieve the POs and PSOs in GNITS R18 Regulations

Activities Conducted	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Pre-Placement Training	√	√	-	-	-	-	-	√	√	√	-	√	-	√
Training on Soft Skills	-	√	√	-	√	-	-	√	√	√	√	√	√	√
Creative / Hobby Projects	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Guest Lectures	√	√	-	-	√	√	-	√	-	√	-	√	-	√
Workshops	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Industrial Visits	-	-	-	-	-	√	√	√	-	√	√	√	-	√
Value Added Courses	√	-	√	√	√	√	√	√	√	√	-	√	√	√
Pre-Conference Workshops	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Paper Presentations/ Poster Presentations	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Publications	√	√	√	√	√	√	-	√	√	√	√	√	√	√
Total No. of Subjects correlated with POs (X)	**8**	**8**	**7**	**6**	**8**	**8**	**6**	**10**	**8**	**10**	**7**	**10**	**7**	**10**
Percentage = ((X/10)*100)	**80**	**80**	**70**	**60**	**80**	**80**	**60**	**100**	**80**	**100**	**70**	**100**	**70**	**100**

2.1.2 Structure of the Curriculum (5) Institute Marks : 5.00

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	C101	Physics	3	1	0	4	4	0	4
2	C102	Linear Algebra & Muti-Variable Calculus	3	1	0	4	4	0	4
3	C103	Programming for Problem Solving	3	0	0	3	3	0	3
4	C104	Engineering Graphics	1	0	3	4	2.5	0	2.5
5	C105	Engineering Workshop	1	0	3	4	0	2.5	2.5
6	C106	Physics Lab	0	0	3	3	0	1.5	1.5
7	C107	Programming Lab	0	0	3	3	0	1.5	1.5
8	C108	Games & Sports	2	0	0	2	0	0	0
9	C109	Chemistry	3	1	0	4	4	0	4
10	C110	Numerical Techniques & Transform Calculus	3	1	0	4	4	0	4
11	C111	English	2	0	0	2	2	0	2
12	C112	Basic Electrical Engineering	3	1	0	4	4	0	4
13	C113	Chemistry Lab	0	0	2	2	0	1	1
14	C114	English Professional & Communication Skills Lab	0	0	2	2	0	1	1
15	C115	Basic Electrical Engineering Lab	0	0	3	3	0	1.5	1.5
16	C116	Computational Mathematics Lab	0	0	3	3	0	1.5	1.5
17	C117	National Service Scheme (NSS)	2	0	0	2	0	0	0
18	C201	Mathematical Analysis	3	0	0	3	3	0	3
19	C202	Network Theory	3	0	0	3	3	0	3
20	C203	Electronic Devices & Circuits	3	1	0	4	4	0	4
21	C204	Signals & Systems	3	0	0	3	3	0	3
22	C205	Digital System Design	3	0	0	3	3	0	3
23	C206	Electronics Circuits Lab	0	0	3	3	0	1.5	1.5
24	C207	Basic Simulation Lab	0	0	3	3	0	1.5	1.5
25	C208	Digital System Design Lab	0	0	3	3	0	1.5	1.5
26	C209	Gender Sensitization	2	0	0	2	0	0	0
27	C210	Probability & Stochastic Process	3	0	0	3	3	0	3
28	C211	Material Science	3	0	0	3	3	0	3
29	C212	Analog Circuits	3	0	0	3	3	0	3
30	C213	Analog & Digital Communications	3	1	0	4	4	0	4
31	C214	Microprocessors & Microcontrollers	3	0	0	3	3	0	3
32	C215	Analog Circuits Lab	0	0	3	3	0	1.5	1.5
33	C216	Analog & Digital Communications Lab	0	0	3	3	0	1.5	1.5

34	C217	Microprocessors & Microcontrollers Lab	0	0	3	3	0	1.5	1.5
35	C218	Environmental Sciences	2	0	0	2	0	0	0
36	C301	VLSI Design	3	0	0	3	3	0	3
37	C302	Digital Signal Processing	3	1	0	4	4	0	4
38	C303	EM Theory & Transmission Lines	3	0	0	3	3	0	3
39	PE-1	Professional Elective – 1	0	0	3	3	3	0	3
40	C307	Digital Signal Processing Lab	0	0	3	3	0	1.5	1.5
41	C308	e-CAD & VLSI Lab	0	0	3	3	0	1.5	1.5
42	C309	Employability & Soft Skills Lab	0	0	2	2	0	1	1
43	OE - 1	Open Elective – 1	3	0	0	3	3	0	3
44	C317	Managerial Economics & Financial Analysis	3	0	0	3	3	0	3
45	C318	Principles of Computer Networks	3	0	0	3	3	0	3
46	C319	Linear Control Systems	3	0	0	3	3	0	3
47	PE-2	Professional Elective – 2	3	0	0	3	3	0	3
48	OE - 2	Open Elective – 2	3	0	0	3	3	0	3
49	C323	Computer Networks Lab	0	0	3	3	0	1.5	1.5
50	C324	Electronic Design Lab	0	0	3	3	0	1.5	1.5
51	C325	Seminar	2	0	0	2	0	2	2
52	C401	Fundamentals of Management	3	0	0	3	3	0	3
53	C402	Microwave Engineering	3	0	0	3	3	0	3
54	PE-3	Professional Elective – 3	3	0	0	3	3	0	3
55	PE-4	Professional Elective – 4	3	0	0	3	3	0	3
56	OE-3	Open Elective – 3	3	0	0	3	3	0	3
57	C409	Microwave Engineering Lab	0	0	2	2	0	1	1
58	C410	Mini Project	0	0	0	0	0	2	2
59	C411	Project Phase – I	1	0	4	5	0	3	3
60	C418	Entrepreneurship & Project Management	3	0	0	3	3	0	3
61	PE-5	Professional Elective – 5	3	0	0	3	3	0	3
62	PE-6	Professional Elective – 6	3	0	0	3	3	0	3
63	OE-4	Open Elective – 4	3	0	0	3	3	0	3
64	C425	Project Phase – II	2	0	12	14	0	8	8
		Total	**119**	**8**	**75**	**202**	**117.5**	**42.5**	**160.0**

2.1.3 State the components of the curriculum (5)

Institute Marks : 5.00

Course Components	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	15.31	27.00	24
Engineering Sciences	15.00	33.00	24
Humanities and Social Scie	8.13	15.00	13
Program Core	33.44	68.00	54
Program Electives	11.25	18.00	18
Open Electives	7.50	12.00	12
Project(s)	8.13	19.00	13
Internships/Seminars	1.25	2.00	2
Any other (Please specify)	0	8.00	0
Total number of Credits			**160**

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

Institute Marks : 10.00

Initial Assessment and Alignment: The process commences with a comprehensive examination of curriculum guidelines provided by the institution and accrediting bodies. These guidelines form the basis for identifying the desired POs and PSOs. Our curriculum, spanning diverse disciplines such as Science, Mathematics, Engineering, Humanities and Management, Projects, and Internships, is meticulously aligned with these identified outcomes.

Curriculum Mapping: A detailed mapping exercise to correlate the Course Outcomes of each course with the established POs and PSOs. This step ensures that every aspect of our curriculum contributes significantly to the achievement of the desired outcomes.

Selection of Assessment Tools: Assessment tools and methodologies are carefully chosen to evaluate student performance and achievement in relation to the POs and PSOs. These tools encompass various methods such as examinations, projects, presentations, portfolios, surveys, rubrics, and evaluations during internships.

Data Collection and Analysis: Data on student performance and achievement related to POs and PSOs are systematically collected through the chosen assessment tools. This data undergoes rigorous analysis to determine the extent of attainment of each outcome by our students. This analysis guides the identification of strengths and areas requiring enhancement within our curriculum.

Feedback and Iterative Improvement: After analyzing data from surveys conducted for employers, students, and alumnae regarding Program Outcomes (POs) and Program Specific Outcomes (PSOs), constructive feedback is distributed to relevant stakeholders, including faculty members and curriculum designers. This feedback, coupled with survey results, informs the integration of iterative improvements into the curriculum, prioritizing alignment with identified gaps and desired outcomes.

Continuous Monitoring and Review: Continuous monitoring of student performance and curriculum effectiveness is prioritized to ensure ongoing alignment with industry standards and evolving educational trends. Regular reviews are conducted to evaluate the efficacy of our curriculum in preparing students to navigate the dynamic professional landscape.

Program Outcomes – B. Tech (ECE)

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design & Development Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Investigation of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: Engineering & Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment & Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual & Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project Management & Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes – B. Tech (ECE)

PSO1: Research Activities: Develop abilities to successfully analyze, execute and synthesize hardware and software oriented mini- and technical major- projects in identified specializations and areas of interest, and enrich industry compatibility.

PSO2: Professional Outlook: Establish a good knowledge sharing network and peer connectivity through Professional Society Memberships, conduct of Seminars, Technical Events and Conference Paper Presentations, and earn prominence.

Fig. 2.1.4.1 Process for Attaining POs and PSOs

The Outcomes of every Course are correlated to the POs and PSOs using a detailed Venn Diagram method.

The Course Outcomes of **Network Theory (C202)**, **2/4 ECE 1st Sem** as shown in Table 2.1.4.1 and the Venn Diagram to correlate the Course Outcomes to PO1 and the corresponding CO-PO Correlation Matrix is shown in the Fig. 2.1.4.2

Table 2.1.4.1 Course Outcomes of Network Theory (C202), 2/4 ECE 1st Sem

Course Outcomes: After completion of the course student must be able to

C202.1	Define the basic Network terminology, Kirchoff's Laws.
C202.2	Analyze the given network using Theorems, Transient, Laplace transform and Network topology.
C202.3	Distinguish between Series and Parallel resonance.
C202.4	Classify a given network in terms of different two port network parameters.
C202.5	Develop the network from the Network functions.
C202.6	Design different Passive filters.

Course Outcome	CO1	CO2	CO3	CO4	CO5	CO6
Mapping to PO1	1/2=1/2=1	3/3=1/3=1/3=1/3=1	1/2=1/2=1	1	1	1
Correlation Level	3	3	3	3	3	3

Fig. 2.1.4.2 Venn Diagram to correlate the Course Outcomes to PO1 and the corresponding CO-PO Correlation Matrix

The consolidated CO-PO Correlation Matrix of **Network Theory (C202)**, **2/4 ECE 1st Sem** is shown in Table 2.1.4.2

Table 2.1.4.2 Consolidated CO-PO Correlation Matrix of Network Theory (C202), 2/4 ECE 1st Sem

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C202.1	3	3	-	3	-	-	-	-	-	-	-	2	2	-
C202.2	3	3	2	2	-	-	-	-	-	-	-	1	1	3
C202.3	3	3	3	3	-	-	-	-	-	-	-	3	3	3
C202.4	3	3	3	3	-	-	-	-	-	-	-	0	3	-
C202.5	-	3	-	3	-	-	-	-	-	-	-	0	0	3
C202.6	3	3	3	3	-	-	-	-	-	-	-	0	3	1
C202	**3**	**3**	**2.75**	**2.83**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2.4**	**2.5**

In a similar manner, all the COs are correlated to all the POs and PSOs as shown in Table 2.1.1.6. From this, the COs contributing to the attainment of POs and PSOs has been shown in the Table 2.1.4.3 for GNITS R18 Regulations.

Table 2.1.4.3 Course Outcomes of GNITS R18 Regulations correlated to POs and PSOs

PO/ PSO	Course Outcomes	% of COs covered for each PO
PO1	C101, C102, C103, C105, C106, C109, C110, C111, C112, C113, C114, C115, C116, C201, C202, C203, C204, C205, C206, C207, C208, C210, C211, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C315, C318, C319, C320, C321, C322, C323, C324, C325, C327, C332, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C416, C417, C419, C420, C421, C422, C423, C424, C425	71 Courses Correlated to PO1

PO2	C101, C102, C103, C105, C106, C109, C110, C111, C112, C113, C114, C115, C116, C201, C202, C203, C204, C205, C206, C207, C208, C210, C211, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C315, C318, C319, C320, C321, C322, C323, C324, C325, C327, C332, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C416, C417, C419, C420, C421, C422, C423, C424, C425	71 Courses Correlated to PO2
PO3	C101, C102, C103, C105, C106, C107, C109, C110, C111, C112, C113, C114, C115, C116, C201, C202, C203, C204, C205, C206, C207, C208, C210, C211, C212, C214, C215, C217, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C327, C332, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C431	74 Courses Correlated to PO3
PO4	C101, C103, C106, C110, C111, C112, C201, C202, C203, C204, C205, C206, C207, C208, C210, C211, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C305, C306, C307, C308, C310, C311, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C327, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C418, C419, C420, C421, C422, C423, C424, C425, C431	64 Courses Correlated to PO4
PO5	C101, C102, C103, C110, C111, C112, C113, C115, C201, C204, C205, C207, C210, C211, C213, C214, C216, C217, C301, C302, C303, C306, C307, C308, C310, C311, C315, C318, C319, C320, C321, C322, C323, C324, C327, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C422, C425	48 Courses Correlated to PO5
PO6	C102, C104, C105, C107, C109, C114, C115, C213, C214, C216, C217, C309, C320, C322, C324, C325, C332, C402, C403, C406, C410, C411, C416, C417, C421, C422, C425	27 Courses Correlated to PO6
PO7	C102, C103, C104, C105, C109, C110, C114, C115, C116, C211, C213, C216, C303, C305, C309, C310, C311, C315, C316, C317, C320, C324, C325, C327, C332, C401, C402, C404, C405, C406, C409, C410, C411, C413, C416, C417, C418, C422, C425, C431	40 Courses Correlated to PO7
PO8	C104, C107, C116, C303, C320, C410, C411, C425	8 Courses Correlated to PO8
PO9	C101, C104, C107, C111, C112, C115, C116, C201, C206, C214, C216, C217, C301, C307, C308, C316, C317, C320, C321, C325, C401, C404, C409, C410, C411, C418, C422, C425, C431	29 Courses Correlated to PO9
PO10	C104, C105, C107, C109, C114, C116, C205, C206, C307, C308, C309, C316, C317, C320, C325, C332, C401, C405, C410, C411, C416, C417, C418, C425, C431	25 Courses Correlated to PO10
PO11	C105, C107, C109, C114, C203, C208, C210, C214, C217, C307, C309, C316, C317, C332, C401, C405, C406, C410, C411, C416, C417, C418, C419, C425, C431	25 Courses Correlated to PO11
PO12	C101, C103, C104, C105, C107, C109, C110, C111, C112, C113, C114, C116, C201, C202, C203, C204, C206, C207, C210, C211, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C307, C308, C309, C310, C311, C315, C318, C319, C320, C322, C323, C324, C325, C327, C332, C403, C404, C405, C406, C408, C409, C410, C411, C413, C416, C417, C419, C420, C422, C423, C424, C425	62 Courses Correlated to PO12
PSO1	C101, C103, C104, C107, C109, C110, C111, C112, C113, C114, C115, C116, C201, C202, C203, C204, C205, C206, C207, C208, C210, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C315, C318, C319, C320, C321, C322, C323, C327, C328, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C419, C420, C421, C422, C423, C424, C425	65 Courses Correlated to PSO1
PSO2	C101, C103, C104, C107, C109, C110, C111, C112, C113, C114, C115, C116, C201, C202, C203, C204, C207, C208, C210, C212, C213, C214, C215, C216, C217, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C315, C318, C319, C320, C321, C322, C323, C324, C325, C327, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C413, C419, C420, C422, C423, C424, C425	63 Courses Correlated to PSO2

2.2 Teaching-Learning Processes (70) Total Marks 70.00

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Institute Marks : 15.00

The Department follows various Teaching & Learning processes aimed at the improvement of Quality of Teaching and Learning. Fig. 2.2.1.1 shows the process followed in Teaching & Learning, encompassing the following aspects:

A. Adherence to Academic Calendar

B. Pedagogical Initiatives

C. Methodologies to support Weak Students and encourage Bright Students

D. Use of ICT and Innovative Techniques in Classroom Teaching

E. Conduction of Experiments

F. Continuous Assessment in the Laboratory

G. Student Feedback on Teaching Process and Action taken

Fig. 2.2.1.1 Process followed in Teaching & Learning

A. Adherence to Academic Calendar (2)

Academic calendar for I year- I Semester Students mainly consists of 3 Major Phases.

Phase 1: The Orientation (Induction) Program for First Year. The Orientation Program is meant for Transforming/ Orienting the students from Generic Approach to Professional Approach with inputs from various Resource Persons.

Phase 2: Instructions of Classes and Labs.

Phase 3: Internal Semester Exams (Twice in a Semester), Semester End Exams and Lab Exams/Viva-Voce (Internal Lab Exam and Semester End Lab Exam).

Academic Calendar for I year – II Sem, II, III and IV year – I and II Semesters consists of only Phases 2 and 3.

Faculty submit Lesson Plans before the start of the Semester, showing the breakup of the Syllabus as per the Academic Calendar. The following Table 2.2.1.1 shows the break-up of 22 weeks allotted for each semester. There are 8 weeks of Instruction before First Internal Exam and 8 weeks of Instruction after First Internal Exam and before II Internal Exam, totalling to 16 weeks of teaching in a Semester. This is followed by the Lab Exams and Semester End Exams with 2 weeks reserved for two Internal Semester Exams, one week for Lab External Exam followed by 2 weeks of Semester End Exam, totalling to 22 weeks for a Semester with 4 to 6 weeks of break between Even Semester to Odd Semester. Fig. 2.2.1.2 shows the Consolidated Academic Calendar for AY 2022-23.

Table 2.2.1.1 Break-up of 22 Weeks of a Semester

Details	No. of Weeks Allocated
1st Spell of Instructions	8 Weeks
I Internal Examinations	1Week
2nd Spell of Instructions	8Weeks
II Internal Examinations	1 Week
Lab External Examinations	1 Week
End Semester Examinations	3 Weeks

Fig. 2.2.1.2 Consolidated Academic Calendar for Academic Year 2022-23

*Note: Internal Semester Examinations is referred to as Mid in the Academic Calendar

A detailed Academic calendar is being prepared from this Academic Year (AY:2023-24) onwards. Dean of Academics will be involved in preparation of the Academic Calendar. The modifications/ changes that are incorporated in the Academic Calendar are as shown in Fig. 2.2.1.3 and a sample copy of Academic calendar with these modifications are shown in Fig. 2.2.1.4.

Fig.2.2.1.3 Modifications done in Academic Calendar from AY:2023-24


(AUTONOMOUS)

ACADEMIC CALENDAR (2023-2024)

Fig. 2.2.1.4 Detailed Academic Calendar of IV B.Tech I Sem for AY: 2023-24

The following is the process of allocating courses to faculty, preparing timetables, preparing course plans and conduction of Internal Semester Examinations and Semester End Examinations for each semester based on the Academic Calendar.

1. Process of Allocating Theory Courses and Lab Courses to the Faculty

- The list of theory courses and laboratory courses for the semester is displayed to the faculty for taking their choices.
- The preferences of theory and lab courses indicated by the faculty members is consolidated.
- Theory and lab courses are assigned to each faculty member based on their expertise as well as the department requirement.

2. Process of Dissemination of Timetables

- Yearwise class timetables are prepared.
- Individual timetables are prepared for each faculty member based on class timetables.
- The yearwise timetables are communicated to the students and faculty members.
- The individual timetables are communicated to the respective faculty member.

Sample copies of Class timetables for both I and II Sem are provided in Fig. 2.2.1.5 and Fig. 2.2.1.6.

Fig. 2.2.1.5 II Year- I Sem Timetable for AY 2022-23

Fig. 2.2.1.6 II Year- II Sem Timetable for AY:2022-23

3. Preparation of Course Plans

- After course allocation and timetable preparation, each faculty prepares a detailed course plan for the course allotted to them
- Course plan outlines the topics coved in every hour of class time, ensuring coverage of syllabus.
- It also specifies which textbooks/ online resources will be used for covering each topic.
- The course plan also specifies the methods and strategies that will be employed for teaching each topic.

Sample copy of Course plan is shown in the Fig. 2.2.1.7.

Fig. 2.2.1.7 Course Plan of DSP Subject

4. Internal and Semester End Exams

- The internal semester examinations and semester end examinations are scheduled in compliance with the Academic Calendar by the Institute Controller of Examinations.

Sample copies of Time-Tables for Internal Semester Exams and Semester End Exam are provided in Fig. 2.2.1.8 and Fig. 2.2.1.9 respectively.

Fig. 2.2.1.8 II Year, I Sem Internal Semester Examinations-1 Time-table for AY 2022-23

Fig. 2.2.1.9 II Year II-Sem End Semester Examinations Time-table

B. Pedagogical Initiatives (2)

Quality Teaching & Learning process is one of the major objectives and strengths of our department. Students are provided with a combination of traditional and innovative methods to make learning Student-Centric. The department of ECE provides a very good platform for students to improve their skills, knowledge and attitude to shape their behavior into multi-faceted. Various training programs are organized to motivate creative ability in students and provide a platform to faculty to explore the pedagogical initiatives. The student centric methods adopted in Teaching-Learning process are categorised into 3 groups as shown in Table 2.2.1.2. Fig. 2.2.1.10 shows various teaching methods adopted by faculty of ECE Department. Fig. 2.2.1.11 and Fig. 2.2.1.12 show the of usage of Real-Time Case Study in Internet of Things Course and Think-Pair-Share methodology in Digital Logic Design Course by faculty of ECE.

Table 2.2.1.2 Classification of Student Centric Methods

EXPERIENTIAL LEARNING	PARTICIPATIVE LEARNING	PROBLEM SOLVING
Hackathons (1)	Video (8)	Project based learning (21)
Workshops (2)	Demonstration (9)	Real time case studies (22)
Seminars (3)	Activity-based learning (10)	Worksheets (23)
Virtual Lab (4)	Jigsaw (11)	Open book test (29)
Simulation (5)	Think pair share (12)	Proto type model (30)
Role play (6)	Flipped Class room (13)	Cross words (31)
Review web literature (7)	Plicker (14)	Research Projects (32)
Journal Review (27)	Guest lecture (15)	Viva (34)
	Professional practice school (16)	Poster presentation (36)
	GD/ debate (17)	
	Peer learning groups (18)	
	MOOCs (19)	
	Google Classroom (20)	
	PPT (24)	
	Kahoot (25)	
	Mind Map (26)	
	Pogil (28)	
	Language games (33)	
	Public speaking (35)	

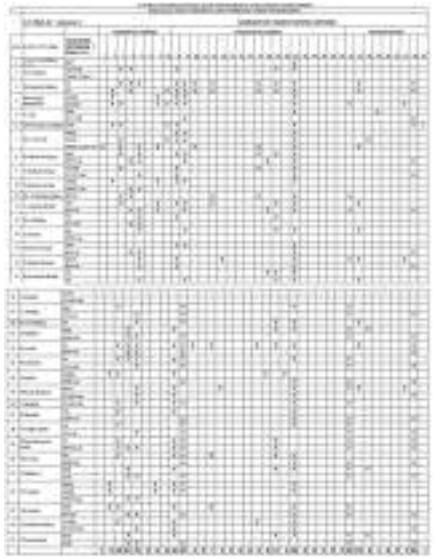


Fig. 2.2.1.10 Summary of Teaching Methods used by faculty in AY 2022-23, I Sem

Fig. 2.2.1.11 Real-Time Case Study in IoT Course

Fig. 2.2.1.12 Using Think Pair Share in DLD Subject

C. Methodologies to Support Weak Students and Encourage Bright Students (2)

The students of GNITS are from diverse social, cultural, economic and linguistic backgrounds with varied levels of knowledge, aptitudes and skills, making their learning needs unique, hence their learning capabilities are different. Upon students' admission, an Induction program is conducted to orient the students towards professional courses/ communication. Continuous internal evaluation components like class tests, assignments, quizzes, projects, seminars, poster presentations, group discussions, role plays, analytical reviews and presentations help assess the learning levels of the students. The Classification of students in to Weak Students/Slow Learners and Bright Students/Advanced Learners is as given below:

- Slow Learners (less than 40% Marks in Internal Semester Examination)
- Advanced Learners (85% Marks and above in Internal Semester Examination)

Measures taken for Slow Learners

For the students who are identified as Slow Learners, ECE Department supports them by providing the following facilities as shown in Fig. 2.2.1.13.

Fig. 2.2.1.13 Measures taken for Slow Learners

• **Counselling Sessions**: Every Course Instructor identifies students who have scored below 40% marks in Internal Semester Examinations-I as Slow Learners in their respective courses. They meet the above students, ascertain the reasons for their low scores, and counsel them accordingly. Sample copy of Counselling report is shown in Fig. 2.2.1.14 and improvement observed in their performance in Internal Semester Examinations-II is shown in Fig. 2.2.1.15.

Fig. 2.2.1.14 Slow Learner's Counselling Report

Fig. 2.2.1.15 Improvement in Internal Semester Examinations-II in the Concerned Course

- **Laboratory Activities:** Some of the Courses in each Semester are associated with Labs. Lab activities can benefit slow learners in many ways:
  - Rather than solely depending on theoretical explanations, practical hands-on experiences can make abstract concepts easier to understand. Faculty can dedicate additional help to Slow Learners so that they understand difficult concepts, which may be challenging to convey solely through theoretical classes.
  - Slow Learners may struggle with traditional classroom instructions because they find it difficult to stay engaged. Activities and labs often make them interactive and stay engaged, which can increase motivation and interest in courses.
  - Laboratory activities make the students collaborate and work together, share ideas and learn from one another. The Slow Learner can benefit from peer support and assistance, as well as get an opportunity to explain concepts to their peers, which can deepen their own understanding.
- **Bridge Courses:** Every year, around 18 students enroll in the Second year after completion of their diploma course as Lateral Entries. As they lack exposure to the Mathematical Courses offered in First year, they encounter difficulty in understanding Courses which require mathematical proficiency. To support these students, Mathematics faculty offer bridge courses during the first semester of second year. The Bridge Course aims to make the students get familiarized with the concepts they missed in First Year, providing them with a foundational understanding of further coursework. One hour in every week is provided for the Bridge course. Sample copy of Time Table with Mathematics Bridge Course (MBC) is shown in Fig. 2.2.1.16 and the corresponding Attendance Register's front page, topics covered in Bridge Course and attendance of students are shown in Fig. 2.2.1.17, Fig. 2.2.1.18 and Fig. 2.2.1.19 respectively.

Fig. 2.2.1.16 Timetable showing Math Bridge Course (MBC)

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Fig. 2.2.1.17 Math Bridge Course (MBC) Register First page


ACADEMIC DIARY

Fig. 2.2.1.18 Topics covered in Math Bridge Course (MBC)

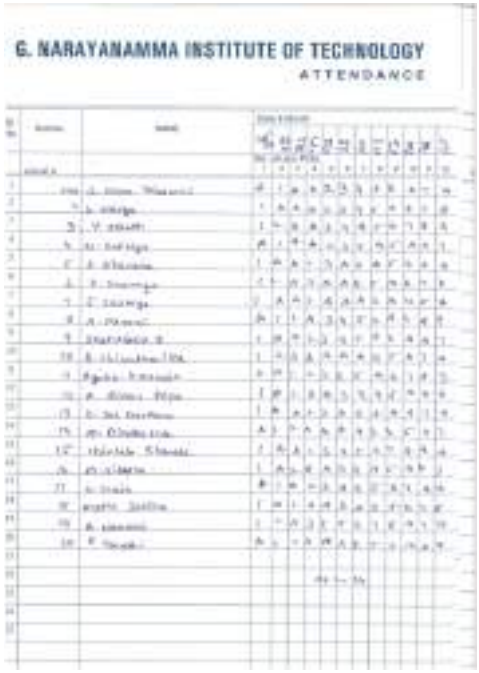
G. NARAYANAMMA INSTITUTE OF TECHNOLOGY
ATTENDANCE

Fig. 2.2.1.19 Students attendance in Math Bridge Course (MBC)

- **Co-curricular activities:** ECE department always encourages students to participate in co-curricular activities because we believe that these activities offer alternative avenues for learning beyond traditional classroom settings. Participation in co-curricular activities promotes development of social, emotional and physical skills alongside academic ones. Slow learners may find success and recognition in areas where they have natural abilities or interests, boosting their overall self-esteem and motivation.

- **Project Work:** Project work involves collaboration among peers which is an opportunity for Slow Learners to strengthen their learning capabilities. In ECE department, students undertake Mini Project in their Third Year and a Major Project in their Final Year. Teams are formed with a Batch size of four which is a mix of Slow, Average and Advanced learners. By organizing Batches in this manner, every slow learner gets a chance to collaborate with advanced learners over a course of 1.5 to 2 years. This grouping not only facilitates knowledge sharing but also support one another's weaknesses.

- **Question Bank Discussion:** The faculty prepares a Question Bank containing frequently asked questions from previous semester exams or some questions designed to understand the key concepts. These questions cover the entire Course and are supplied to slow learners. They are encouraged to solve these Questions independently and meet the respective course instructor to seek clarification. This approach aims to help the slow learners to build confidence in attempting the Semester End Examinations.

- **Attendance Monitoring, Course Material:** Most commonly it is observed that students who are irregular in attending classes tend to not perform well in their academics. To address this issue, we implement the following measures:

  - Each Course Instructor monitors student attendance at the end of every month. If any student's attendance falls below 75%, they are reminded of the importance of regular attendance.
  - Every faculty is responsible for counselling a group of 18 students. At the month end, an attendance report will be prepared for all Courses. If a student's attendance is below 75%, a communication letter is sent to their parent/ guardian through the student, informing them of the situation. If the attendance is below 65%, the counsellor directly posts the letter to the parent/ guardian. Sample copy of shortage of attendance form (below 65%) and communication to parent is shown in Fig. 2.2.1.20 and undertaking by the parent after his/her signature is shown in Fig. 2.2.1.21.
  - For each class, a Class Teacher is assigned and one of the roles of the class teacher is to communicate with the parents/guardians if a student's attendance falls below 65%. They provide a detailed report on the reasons for the student's absence, which is submitted monthly.

Through these procedures, ECE Department ensures the regularity of students to classes. In case of genuine absence, faculty provide study material of the missed classes to the students.

Fig. 2.2.1.20 Shortage of Attendance Form (below 65%) Communicated to Parent

Fig. 2.2.1.21 Undertaking by the Parent after his/her Signature

- **Remedial Classes:** Remedial classes are arranged in ECE Department to students who fail in Semester End Exams. Students who failed in each Course are grouped together, and one or two faculty are assigned for the respective Course to conduct remedial classes. These classes are conducted before the Supplementary Exams. This approach enables students to simultaneously manage the backlogs alongside their regular coursework, preventing last-minute preparation and enhancing their chances of clearing their backlogs. Sample copy of remedial classes allotment to faculty and attendance sheet for one of the subjects is shown in the Fig. 2.2.1.22 and Fig. 2.2.1.23 respectively.

Fig. 2.2.1.22 Allotment of faculty for III Year-I Sem Remedial Classes in AY 2022-23

Fig. 2.2.1.23 Attendance for DSP Remedial Classes in AY 2022-23

Encouragement for Advanced Learners

For the students who are identified as Advanced Learners, ECE Department encourages them by providing various activities other than their regular course work which is depicted in Fig. 2.2.1.24.

Fig. 2.2.1.24 Encouragement to Advanced Learners

- **Freeships:** At the end of every academic year, Freeships are granted to students under across various categories as a token of appreciation. Table 2.2.1.3 outlines various criteria for each Award and the number of students who receive them annually:

Table 2.2.1.3 Freeship Categories and Criteria for the Awards

S.No	Category	Criteria	No. of students (or Category of Students) that receive the award
1	Academic Toppers	CGPA/ SGPA secured by the student	I Year- 5 from each section II Year- 5 from each section III Year- 5 from each section IV Year- 5 from each section
2	Attendance Toppers	Percentage of Attendance secured in Academic year. Above 90% are considered.	I Year- 5 from each section II Year- 5 from each section III Year- 5 from each section IV Year- 5 from each section
3	Best Placement Award	Highest pay package in that Year	All the Final year students who received highest pay package.
4	Gold Medal Winner	CGPA for all the four years of B.Tech	Topper among all the three sections will be honored with Gold medal as a token of appreciation for their consistent hard work throughout the 4-year journey.
5	Young Engineer Award	Various factors including academic performance and involvement in extra/ co-curricular activities over four years.	One student from Final year.
6	Top Ranker in GRE/ GATE/ IELTS	Based on the GRE/ GATE/ IELTS scores/ rank obtained	Top rank achieved among the three sections of final year receives this award. One award under each category is given.
7	Free Books	Students who are good in academics and are financially backward.	Few students from each year.

Summary of free ships provided by the institute for the AY 2022-23 is shown in Fig. 2.2.1.25.

Fig. 2.2.1.25 Summary of Freeships Sponsored in the AY 2022-23

Students identified as Advanced Learners through internal assessments are counselled by their respective course teachers and are encouraged to engage in various activities as depicted in Fig. 2.2.1.24. By the semester's end all the course teachers compile reports detailing the various activities in which advanced learners participated as a result of counselling. A sample copy of counselling for bright students is and Hackathon participation by one of the counselled students are illustrated in Fig. 2.2.1.26 and 2.1.1.27 respectively.

Fig 2.2.1.26 Counselling for Bright Students

HEGATHON 2022

CERTIFICATE

OF MERIT

THIS CERTIFICATE IS PRESENTED TO

KOTHAKAPU AMRUTHA

in recognition of their efforts and achievement in HEGATHON 2022

Fig 2.2.1.27 Hackathon Participation by Students

- **Internships:** Students are advised to take up Internships in various Industries/fields in order to gain practical knowledge, develop skills, and gain exposure to a particular industry or field of work. Sample copy of Internship offer letter is shown in the following Fig. 2.2.1.28.

- **Laboratory Activities:** Advanced learners are encouraged to perform additional experiments in the laboratory, distinct from their usual experiments listed in the course curriculum. In addition to performing this additional experiment they are expected to also make their other batch mates to perform that experiment. By integrating such activities enriches the learning environment for both advanced learners and their peers.

Fig 2.2.1.28 Internship offered at J.P Morgan Services to one of the ECE students

• **Value Added Courses / Hackathons:** Students are advised to take Value Added Courses to increase their knowledge in other areas of Engineering. They are also advised to participate in Hackathons to foster Creativity, Problem-solving skills, Teamwork, and Entrepreneurship among students. This provides them with a platform to apply their knowledge and skills to develop innovative solutions.

• **GATE/ GRE/ GMAT:** Students aspiring to pursue further studies are encouraged to prepare for standardized tests such as GATE, GRE, GMAT, etc. Our library offers preparation materials for these competitive exams, which students can access. Additionally, faculty members help students in solving some challenging questions. GATE and GRE Score cards sample copies are provided in Fig. 2.2.1.29 and Fig. 2.2.2.30 respectively.

Fig. 2.2.1.29 GATE 2022 Score Card of one of the students Top of Form

Fig. 2.2.1.30 GRE Score Report of one of the students

• **Paper Presentations / Publications with financial support by the college to publish papers:** Advanced learners are encouraged to engage in research and innovation work. They are provided with references to Journals and advanced study material and seed money for student research. Faculty mentors are assigned to enterprising students who guide them in writing and publishing research papers/provide guidance for innovation/entrepreneurship. Specialized academic clubs like technical associations are set up by ECE Department that offer a platform for students to explore beyond classroom learning and participate in projects. The following Table 2.2.1.4 shows the list of some of the publications for which funding was provided in the AY 2023-24.

Table 2.2.1.4: Some of the Publications in the AY 2023-24

S. No	Title	Names	Volume	Issue	Pages	DOI
International Journal for Research in Applied Science and Engineering Technology (IJRASET)						
https://www.ijraset.com/ijraset-volume/volume11-issuevii-july2023 (https://www.ijraset.com/ijraset-volume/volume11-issuevii-july2023)						
ISSN: 2321-9653						

1	Design of High Performance Core Micro-Architecture Based on RISC-V ISA for Low Power Applications	Nidhi Jaiswal	11	7	734-742	https://doi.org/10.22214/ijraset.2023.54647 (https://doi.org/10.22214/ijraset.2023.54647)
International Journal for Research in Applied Science and Engineering Technology (IJRASET)						
https://www.ijraset.com/ijraset-volume/volume11-issuevii-june2023 (https://www.ijraset.com/ijraset-volume/volume11-issuevii-june2023)						
ISSN: 2321-9653						
2	Artificial Neural Network Based Integrated Ambulance System	Dr. K. Ragini, Spoorthi G Kunch, B. Sathvika, K. Swathi, G. Prashanthi	11	6	3673-3678	https://doi.org/10.22214/ijraset.2023.54184 (https://doi.org/10.22214/ijraset.2023.54184)
3	Asset Tracking and Management System	Dr. Renuka Devi S M, Vulli Varshini, Thotakuri Shruthi, Palem Nandini, Lanka Bhavyasri	11	6	3679-3684	https://doi.org/10.22214/ijraset.2023.54185 (https://doi.org/10.22214/ijraset.2023.54185)
4	Breast Cancer Detection Using Support Vector Machine Algorithm	V. Uma, Varshini Boorla, Likhitha Bonala, Mohammed Sana, Vennamaneni Shrestha	11	6	3691-3698	https://doi.org/10.22214/ijraset.2023.54188 (https://doi.org/10.22214/ijraset.2023.54188)
5	Authorized Automatic Vehicle Allowance System	B. Sreekanth Reddy , Spoorthi Tummalapalli, Anusha Juluri, Amrutha Regalla, Yashashwini Chenamalla	11	6	3744-3751	https://doi.org/10.22214/ijraset.2023.54186 (https://doi.org/10.22214/ijraset.2023.54186)
6	Gain Enhancement of Microstrip Patch Antenna for Wi-Fi Augmentation	N. Krishna Jyothi, Thurlapati Harini, Arava Vedabhishikta, Abarrane Emmanual	11	6	3760-3766	https://doi.org/10.22214/ijraset.2023.54190 (https://doi.org/10.22214/ijraset.2023.54190)
7	IoT Based Smart Shopping Cart Using RFID	V. Radhakrishna, V. Sachitha Sharma, M. Nagacharishma, G. Sreeja	11	6	3767-3771	https://doi.org/10.22214/ijraset.2023.54191 (https://doi.org/10.22214/ijraset.2023.54191)
8	Prediction of COVID-19 Severity by Applying Machine Learning Techniques	V. Shankar, Telugu Hemalatha, Katkoori Preethi, S Sushma, K Manusha	11	6	3772-3780	https://doi.org/10.22214/ijraset.2023.54193 (https://doi.org/10.22214/ijraset.2023.54193)
9	Study on Coal Mine Safety Monitoring and Alerting System Using IOT	Dr. G. Srivalli, V. Ujwala Sony, G. Sahithi, D. Harshini, B. Spoorthi	11	6	3781-3786	https://doi.org/10.22214/ijraset.2023.54194 (https://doi.org/10.22214/ijraset.2023.54194)
10	Predicting Online Customer Purchase using Gradient Boost Classifier	Arushi Sreekumar, Renuka Devi S M	11	6	3787-3791	https://doi.org/10.22214/ijraset.2023.54192 (https://doi.org/10.22214/ijraset.2023.54192)
11	Vehicle Overspeed Detection and Number Plate Extraction Using Raspberry Pi	Rakesh Kumar Y, Suma Latha.P	11	6	3792-3796	https://doi.org/10.22214/ijraset.2023.54195 (https://doi.org/10.22214/ijraset.2023.54195)
International Journal of Electronics and Communication Engineering.						
ISSN: 0974-2166						
12	Prediction of COVID-19 Severity by Applying Machine Learning Techniques	V.Shankar Telugu Hemalatha, 2Katkoori Preethi, 2S Sushma, 2K Manusha	16	1	1-15	http://www.irphouse.com/ijece21/ijecev16n1_1.pdf (http://www.irphouse.com/ijece21/ijecev16n1_1.pdf)
13	Breast Cancer Detection Using Support Vector Machine Algorithm	1V. Uma, 2Varshini Boorla, 3Likhitha Bonala, 4Mohammed Sana and 5Vennamaneni Shrestha	16	1	17-30	http://www.irphouse.com/ijece21/ijecev16n1_2.pdf (http://www.irphouse.com/ijece21/ijecev16n1_2.pdf)

D. Quality of Classroom Teaching (2)

- In todays educational landscape, its crucial for students to master modern technologies to meet the requirements of the corporate sphere. Additionally, tools are employed to enhance communication and facilitate effective learning. Consequently, educators are leveraging Information and Communication Technology (ICT) tools to enhance the delivery of education. These tools encompass equipment such as projectors, including LCD and Smart Boards, as well as desktop computers and laptops. These resources are strategically deployed within classrooms, computer labs, and faculty cabins across ECE Department. This concerted effort aims to optimize the educational process, ensuring that students are equipped with the requisite skills and knowledge to effectively navigate the professional landscape.
- Modern e-classrooms are equipped with Smart Boards, projectors, and audio-visual systems, facilitating online classes via platforms like Microsoft Teams, Zoom, and Google Meet. Additional resources include access to platforms such as HackerRank, Edyst, and Conduira for coding and placement preparation, as well as support for e-resources like NPTEL, Coursera.
- Faculty are provided with internet facility to use the global resources for effective presentations.
- Video lectures are recorded and provided to students for long-term learning and future reference. Screenshot of LMS (Learning Management System) Classroom recording of Probability Theory and Stochastic Processes (PTSP) Course is shown in the Fig. 2.2.1.31.

Fig. 2.2.1.31 LMS Class Recording of PTSP Course

E. Conducting Experiments (2)

In Lab sessions, students are divided into groups of 4 in hardware labs and one student for each Desktop Computer in software labs. The faculty gives a brief of the experiment with outcomes and applications. Every student's performance is assessed during lab session in terms of model calculations, result, discussions, viva and record submission. Students maintain observation books and lab records which are evaluated by faculty. Safety measures are displayed in the lab. Firefighting systems are in place. First aid is also available in labs. Lab manuals are prepared by faculty for each lab. Safety measures taken in Hardware and Software labs and a sample lab photo are shown in the Fig. 2.2.1.32, Fig. 2.2.1.33 and Fig. 2.2.1.34 respectively.

Fig. 2.2.1.32 Safety Measures taken in Hardware Labs


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Department of Electronics & Communication Engineering
SAFETY GUIDELINES IN SIMULATION LAB

Sl.No.	Description	Sign
1	Know the location of the fire extinguisher and the fire alarm button in case of an emergency.	
2	Know the location of the first aid box in case of an emergency.	
3	MCBs used on both the conductors and a MCB for source trip is installed.	
4	Do not touch bare conductor unless you are sure that it is dead or properly earthed.	
5	Do not eat or drink in the laboratory.	
6	Do not open the system unit casing or monitor casing particularly when the power is turned on.	
7	Keep dust away from the computers.This can cause short circuits.	
8	Be aware of correct posture when using computer equipment.	
9	Periodically glance away from the screen. Staring into a computer monitor for long and can strain your eyes.	
10	Log off the system when not in use, parts wear out after a certain usage.	

Fig. 2.2.1.33 Safety Measures taken in Software Labs

Fig. 2.2.1.34 EDC Lab

F. Continuous Assessment in the laboratory (3)

In addition to internal and external examinations, students are continuously assessed through various means in the laboratory.

Continuous Internal Evaluation (CIE) for laboratory courses for various regulations followed by the department are as follows:

R18 Regulations: CIE during the semester for R18 regulations is for 30 Marks. Out of the 30 Marks, Day-to-Day Assessment of the laboratory work is for 20 Marks and one internal lab exam is conducted by the concerned Internal Examiner for 10 Marks. The following Table 2.2.1.5 shows the marks distribution for Lab internal evaluation, and marks allotted for Day-to-Day assessment.

Table 2.2.1.5 Marks Distribution of Lab Internal Semester Examination for R18 Regulations.

Roll NO.	Day to Day Evaluation (20M)			Lab Internal Exam (10M)	Total Marks (30M)
	Attendance (5M)	Record (10M)	Slip Test (5M)		

R22 Regulations: CIE during the semester is for 40 Marks. Out of the 40 Marks, Day-to-Day Assessment of the laboratory work is for 20 Marks and one internal lab exam is conducted by the concerned Internal Examiner for 20 Marks, out of which 10 Marks are allocated for the viva-voce. Table 2.2.1.6 shows the marks distribution of Lab Internal evaluation, and marks allotted for Day-to-Day evaluation.

Table 2.2.1.6 Marks Distribution of Lab Internal Semester Examination for R22 Regulations

Roll No.	Day to Day Evaluation (20M)		Lab Internal Exam (20M)	Total Marks (40M)
	Record (10M)	Viva (10M)		

R16 Regulations: 25 marks are allotted for CIE during the semester for R16 regulations. Out of the 25 marks for internal exam, Day-to-Day Assessment of the laboratory is evaluated for 15 marks and Lab Internal exam is conducted by the

concerned laboratory faculty for 10 Marks. Table 2.2.1.7 shows the Marks Distribution of Lab Internal Semester Examination for JNTUH Affiliation R16 Regulation and marks allotted for Day-to-Day evaluation.

Table 2.2.1.7 Marks Distribution of Lab Internal Semester Examination for JNTUH Affiliation R16 Regulations.

Roll No.	Day to Day Evaluation (15M)			Lab Internal Exam (10M)	Total Marks (25M)
	Attendance (5M)	Record (5M)	SlipTest (5M)		

As seen from the above tables Table 2.2.1.5, Table 2.2.1.6 and Table 2.2.1.7, the methods employed for Day-to-Day evaluation in laboratories includes the following:

- **Attendance Monitoring:** The regularity of the students is monitored to ensure their consistence presence in laboratory sessions. This helps track their engagement and participation in learning process. Sample copy of Log-book is shown in Fig 2.2.1.35.

Fig. 2.2.1.35 Attendance Monitoring (Log Book Entries)

- **Records and Observations Evaluation:** Students observations and records are regularly evaluated and assessed within a week of performing each experiment, ensuring prompt feedback and close monitoring of progress. Sample record with regular evaluation is shown in Fig. 2.2.1.36.

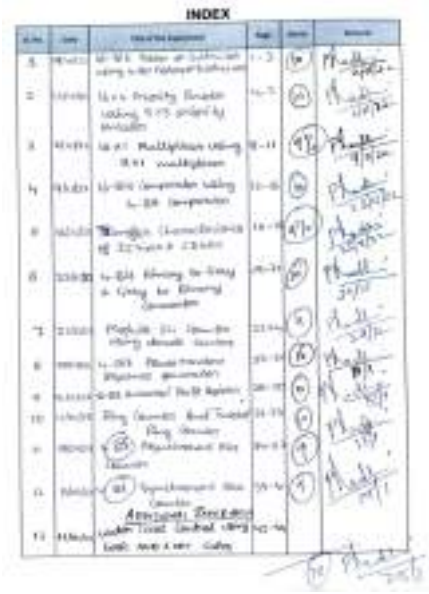


Fig. 2.2.1.36 Lab Record Evaluation

- **Slip Tests/ Viva-Voce:** To gauge student's understanding of the experiments conducted, slip tests or viva-voce sessions are held on a day-to-day basis. These assessments test their comprehension of theoretical concepts, practical applications, and experimental procedures. A sample copy of slip test is shown in Fig. 2.2.1.37, which shows the format and content of these tests.

Fig. 2.2.1.37 Slip Test Format

External Laboratory Examinations

The Semester End Examination (SEE) for Laboratories is conducted at the end of the semester by two Examiners nominated by the Head of the Department and approved by the principal. The SEE shall be conducted with an External Examiner and the concerned Internal Examiner. The External Examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university. Marks distribution for Laboratory SEE for different regulations is shown in Table 2.2.1.8.

Table 2.2.1.8 Laboratory SEE Marks Distribution for different Regulations

Evaluation	R18	R22	R16
Write up	40M	30M	40M
Output	10M	10M	15M
Result	10M	10M	10M
Viva	10M	10M	10M
Total Marks	70M	60M	75M

G. Student Feedback and action taken (2)

Student Feedback is collected at two levels: (1) Interactive feedback through Class Review Committee (CRC) and (2) Online feedback.

- **CRC Meetings** are conducted twice every semester for each year, which will be scheduled one week before commencement of Mid-I and Mid-II examinations. This feedback is taken from a specific group of eight students from each section,

Class representative (CR), In-charge Class representative (ICR), two students from CGPA band of 8 to 10, two students from CGPA band of 6.5 to 8 and two students from the CGPA below 6.5. Among these eight students, it is ensured that one will be a hosteler and one will be a lateral entry student. The faculty involved in this CRC meetings are Head of the Department, Dean Academics/ Principal, Course instructors (both theory and lab). The main agenda of these CRCs is to know the status of syllabus completion, understanding of the concepts delivered by faculty, classroom facilities and other general problems. Corrective actions are taken by the HoD based on the feedback received in CRC meeting. If any of the faculty is lagging behind with respect to syllabus coverage, extra classes are scheduled to cope-up with the syllabus. A sample copy of CRC Schedule, minutes of meeting of CRC and extra classes schedule as a result of CRC are given in Fig. 2.2.1.38, Fig. 2.2.1.39 and Fig. 2.2.1.40 respectively.

Fig. 2.2.1.38 CRC Meeting Schedule before Mid-I for III Year-II Sem (AY:2022-23)

Fig. 2.2.1.39 Minutes of Meeting of CRC

Fig. 2.2.1.40 Extra Classes Schedule as a result of CRC

- **Online Feedback** is taken from all the students which was taken once every semester till AY 2022-23 and is now taken twice from AY 2023-24. Students assess the teaching quality of a particular faculty based on 13 parameters for each course. This feedback system is automated and centrally collected by Dean Academics. A sample copy of online feedback is shown in Fig. 2.2.1.41 which shows these 13 parameters.

Fig. 2.2.1.41 Online Feedback Parameters

Based on the online feedback collected from the students, faculty are advised to improve in the areas in which they are lagging. If any faculty's feedback is less than 75%, they are counselled by the HoD and Dean Academics/ Principal. If the feedback is less than 60%, a written explanation is taken from the concerned faculty, they are advised to attend FDPs conducted at college level, attend NPTEL courses and they are also advised to use pedagogical methods to improve their teaching skills. A sample copy of faculty obtaining "Need to Improve' feedback and explanation letter taken from the faculty are given in Fig. 2.2.1.42 and Fig. 2.2.1.43 respectively.

Fig. 2.2.1.42 Feedback with 'Needs to Improve' Result

Fig. 2.2.1.43 Explanation Letter submitted by the concerned Faculty to the Principal

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

Institute Marks : 15.00

Quality of End Semester Examination, Internal Semester Question Papers, Assignments and Evaluation (15)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluations)

A. Process for Internal Semester Question Paper Setting, Assignments and Evaluation and Effective Process Implementation (3)

The Quality of Internal Semester Examination Question Paper, Assignment and Evaluation is ensured by the following process of question paper setting and strategy for evaluation.

- The Controller of Examinations (CoE) issues Internal Semester Examination schedule as per the Academic Calendar.
- All the course instructors are given guidelines to set question paper for Internal Semester Examinations (ISE).
- The course instructor ensures to frame the question paper to cover the Course Outcomes (COs) with the appropriate Bloom's Taxonomy Levels (BLs) as shown in Fig. 2.2.2.1.

Fig.2.2.2.1 Hierarchical model of Bloom's Taxonomy Levels

- Two ISEs are conducted in each semester as per the Academic Calendar.
- First ISE is conducted after completion of first eight weeks of instruction and Second ISE is conducted after sixteen weeks of instruction.
- First ISE is conducted on the first 50% of the syllabus and the rest for Second ISE.
- Before every ISE, the Course Coordinator will discuss about the completion of the Assignment, Portion of the Syllabus, and Question Papers for ISEs with the course instructors.

Process for ISE Question Paper setting and Model Answers

- Two sets of internal question papers along with CO and BT level Statistics (Internal Quality Assurance Cell Format) and Scheme of valuation are prepared by the Course Instructors according to the syllabus.
- The Sample copy of Scheme of valuation for Network Theory subject of R18 Regulations with reference to ISE question paper in Fig. 2.2.2.3 is shown in Fig. 2.2.2.4.
- These question papers are submitted to the Course Coordinator and Module Coordinator to verify the quality of the question paper in terms of maintaining the standard questions, syllabus coverage, mapping of all questions with the concerned Course Outcomes of each subject and framing of questions with appropriate BLs.
- Once the quality of the paper is verified, then the two sets of internal question papers are submitted to the Head of the Department (HoD) in sealed Envelopes.
- HoD forwards these sealed envelopes to the CoE. In the Examination Branch, the CoE invites HoD of another Dept. to select one Question Paper from the Two Sets and the exam is conducted for the selected question paper.
- After the completion of each exam, the concerned course instructor collects internal exam answer scripts along with answer key from the department examination section for evaluation.
- Every course instructor shows the valued answer scripts to students in the classroom and review the answers.
- After evaluation and thorough verification of answer scripts, course instructors post the marks in the online portal (e-cap).
- At the end of every ISE, the CO attainment for every student will be recorded. Results and analysis will be discussed in faculty meetings for further follow up.
- Fig. 2.2.2.2 depicts the procedure carried out for setting the Internal Semester Examination question papers and their evaluation.

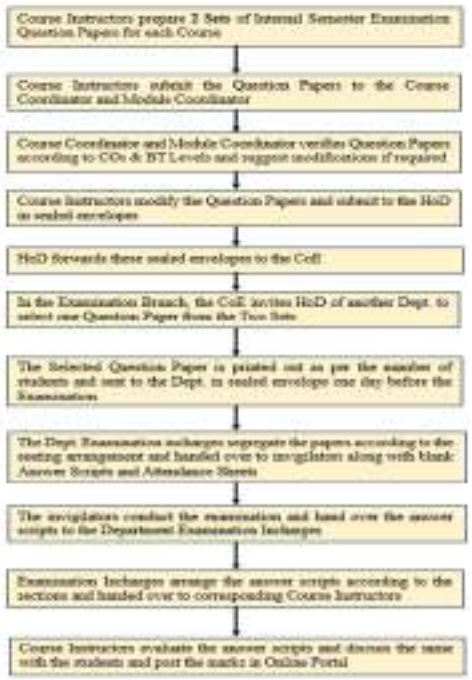


Fig. 2.2.2.2 Process for Internal Semester Examination Question Paper setting and Evaluation

Continuous Internal Evaluation (CIE)

Table 2.2.2.1 shows the entire process of marks distribution of internal exams for a student in each semester for theory courses of various Regulations. The detailed description of CIE and SEE for R18, R22 and R16 Regulations are as follows.

Table 2.2.2.1 Marks Distribution for Theory Courses in CIE

Regulations	CIE(Theory)					
	Distribution of Marks				Total Marks	Min. Marks required to Pass in CIE (35% of Total Marks)
	Part A	Part B	Assignment	Viva-voce / Case Study		
R18	10M	15M	5M	-NA-	30M	11M
R22	10M	20M	5M	5M	40M	14M
R16	10M	10M	5M	-NA-	25M	9M

CIE for R18 Regulations

The performance of a student in each semester shall be evaluated subject-wise (irrespective of the Credits assigned) with a maximum of 100 marks for Theory, or Labs / Practical's, or Drawing/Design, or Elective Course, or Seminar, or Mini- Project, or Project – I, or Project – II etc.

These evaluations shall be based on 30% CIE and 70% SEE, and a Letter Grade corresponding to the percentage of marks obtained shall be given. For all the Subjects, the distribution shall be: 30 Marks for the CIE and 70 Marks for the SEE for the entire UG Degree Course.

- For the Theory Subjects during the semester, there shall be 2 Internal Semester Examinations for 25 marks each.
- Each Internal Semester Examination consists of one Objective section for 10 marks, plus one Subjective section for 15 marks, with a total duration of 120 minutes.
- The Objective section may be set with multiple choice questions, True/False selections, fill-in the blanks, matching type questions, etc.
- The Subjective section shall contain 5 questions, out of which the student has to answer any 3 questions, each question carrying 5 marks.
- Further, there shall be an allocation of 5 marks for the Assignment, and there shall be 2 Assignments.
- The first Internal Semester Examination shall be conducted in the middle of the semester for the first 50% of the syllabus, and the second Internal Semester Examination shall be conducted at the end of the semester for the remaining 50% of the syllabus.
- The First Assignment should be submitted before the conduct of the first Internal Semester Examination, and the Second Assignment should be submitted before the conduct of the second Internal Semester Examination.
- The Assignments shall be as specified by the concerned Course Instructor.
- The first Internal Semester Examination marks and the first Assignment Marks combined together shall make one set of CIE marks, and the second Internal Semester Examination marks and the second Assignment Marks shall make the second set of CIE marks and the AVERAGE of the two Internal Semester Examination marks shall be taken as the final marks secured by the student towards CIE in that Theory Subject. Table 2.2.2.2 shows the Marks Division of Internal Semester Examination for R18 Regulations.

Table 2.2.2.2 Marks Division of Internal Semester Examination for R18 Regulations

Continuous Internal Evaluation-I (30M)	Internal Semester Examination I (25M)
	Assignment-I (5M)
Continuous Internal Evaluation-II (30M)	Internal Semester Examination II (25M)
	Assignment-II (5M)
Average (30M)	Continuous Internal Evaluation-I (30M)
	Continuous Internal Evaluation-II (30M)

- Each Question in Internal Semester Examination is covered with the following Course Outcomes for the Network Theory subject of R18 Regulations.

CO1: Define the basic Network terminology, Kirchoff's Laws.

CO2: Analyse the given network using Theorems, Transient, Laplace transform and Network topology.

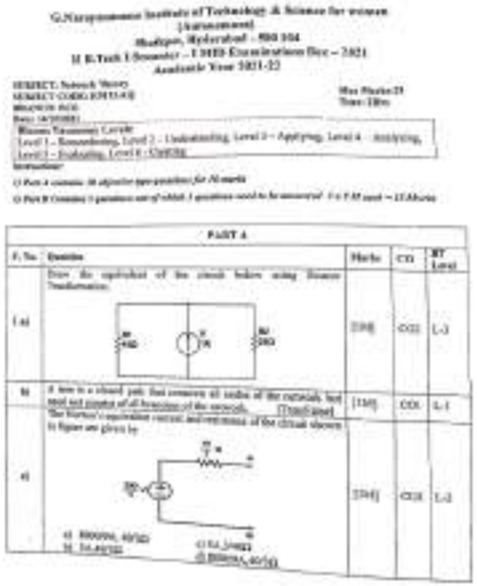
CO3: Distinguish between Series and Parallel resonance.

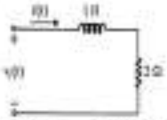
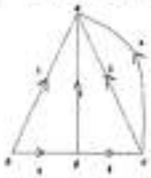
CO4: Classify a given network in terms of different two port network parameters.

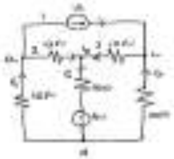
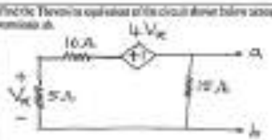
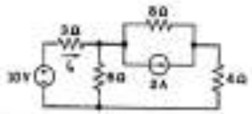
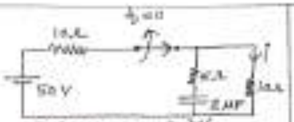
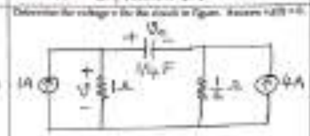
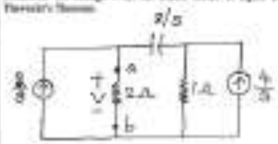
CO5: Develop the network from the Network functions.

CO6: Design different Passive filters.

- The sample copy of ISE Question Paper and its scheme of evaluation for R18 Regulations of Network Theory subject is shown in Fig. 2.2.2.3 and Fig. 2.2.2.4 respectively.



d)	What is the laplace transform of the te^{-at}?	[1M]	CO2	L-1
e)	The equation for voltage across the resistor for a DC input voltage of V volts is given to a series RC network is given by a) Ve^{-t} b) $V(1+e^{-t})$ c) $V(1-e^{-t})$ d) Ve^{-t}	[1M]	CO2	L-1
f)	Under steady state conditions no voltage can be measured across the capacitor. (True/False)	[1M]	CO2	L-1
g)	For the R-L circuit shown in figure, the input voltage $v(t)=u(t)$. The current $i(t)$ is  a) $i(t)=0.5\exp(-2t)$ Amps c) $i(t)=0.5(1-\exp(2t))$ Amps b) $i(t)=0.5\exp(2t)$ Amps d) $i(t)=0.5(1-\exp(-2t))$ Amps	[1M]	CO2	L-3
h)	Write the Fundamental Tie-set Matrix for the circuit shown below 	[1M]	CO2	L-3
i)	What is the direction of the cut-set? a) same as the direction of the branch current b) opposite to the direction of the link current c) same as the direction of the link current d) opposite to the direction of the branch current	[1M]	CO2	L-2
j)	If the roots of a characteristic equation of RLC series circuit when excited by DC are real and unequal, then the response will be? a) critically damped b) under damped c) over damped d) damped	[1M]	CO1	L-2
	PART B			
2)	Find the nodal voltages for the circuit shown in figure using Fundamental cutset matrix.	[5M]	CO1	L-4

				
3(a)	Find the Thevenin equivalent of the circuit shown below across the terminals ab. 	[5M]	CO2	L-3
(b)	Find the current i_o using source transformation. 	[5M]	CO2	L-2
4 a)	Consider an RLC series circuit consisting of R= [illegible], L=[illegible] and C=[illegible] has an input voltage v(t)=[illegible] volts. If the switch is closed at [illegible], determine the current equation.	[5M]	CO2	L-3
(b)	For the circuit shown in the figure find the current equation when the switch is opened at t=0+.	[5M]	CO2	L-4
b)	 Find expression for 'i'.	2 M	CO2	L-4
5(a)	Determine the voltage v for the circuit in Figure. Assume [illegible]. 	[5M]	CO3	L-3
(b)	Derive the expression for voltage v(t) of a parallel RL circuit with an input step excitation of 'A' Amps.	[5M]	CO2	L-2
6	Determine the voltage v for the circuit shown in figure using Thevenin's Theorem. 	[5M]	CO4	L-4

END OF THE QUESTION PAPER

13/12/21

Fig. 2.2.2.3 ISE Question paper of R18 Regulations

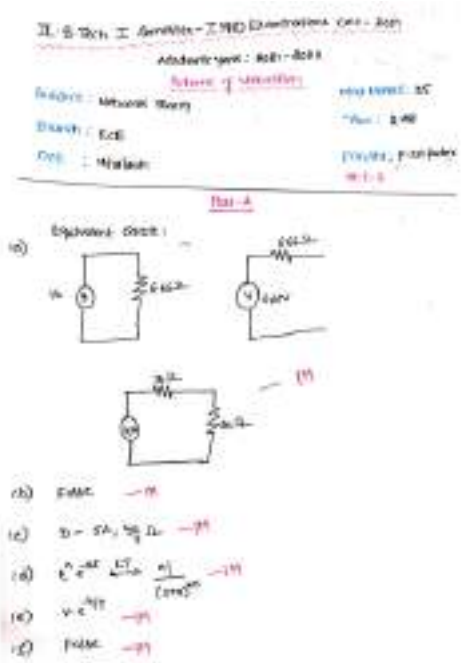


Fig.2.2.2.4 Scheme of Evaluation for ISE of R18 Regulations

CIE for R22 Regulations

The performance of a student in each semester shall be evaluated subject-wise (irrespective of the Credits assigned) with a maximum of 100 marks for Theory, or Labs / Practical's, or Drawing/Design, or Elective Course, or Seminar, or Mini- Project, or Project – I, or Project – II etc. These evaluations shall be based on 40% CIE and 60% SEE, and a Letter Grade corresponding to the percentage of marks obtained shall be given.

- For all the Courses, the distribution shall be: 40 Marks for the CIE and 60 Marks for the SEE for the entire UG Degree course.
- For the Theory Courses during the semester, the first Internal Semester Examination shall be conducted in the middle of the semester for the first 50% of the syllabus, and the second Internal Semester Examination shall be conducted at the end of the semester for the remaining 50% of the syllabus.
- The CIE assessment for 40 marks includes two Internal Semester Examinations. Each Internal Semester Examination is conducted for 30 marks, for a duration of 120 minutes, and it consists of two parts:

i. Part-A (Objective/Quiz Paper) is set with ten multiple choice/ fill-in the blanks/ match the following type of questions for a total of 10 marks. and
ii. Part-B (Descriptive Paper) for 20 marks shall contain 6 full questions, out of which, the student has to answer 4 questions, each carrying 5 marks.

- The remaining 10 marks of CIE are distributed as –

i. 5 marks for Assignment
ii. 5 marks for - Subject Viva-voce/ PPT/Poster Presentation/ Case Study on a topic in the concerned subject.

- There shall be 2 Assignments per semester, and 5 marks are allocated for each Assignment.
- The first Assignment should be submitted before the conduct of the first ISE, and the second Assignment should be submitted before the conduct of the second ISE.
- The Assignments shall be as specified by the concerned course instructor, and the Average of these two Assignments shall be taken into account for 5 marks.
- Assessment (for 5 marks) for the Subject Viva-voce/ Poster Presentation/ Case Study on a topic in the subject concerned shall be carried out before the commencement of II Internal Semester Examinations.
- Sum of these three components of marks –

  - Average of the two ISEs marks along with Assignments (for 35 marks).
  - The Assessment for the Subject Viva-voce/ Poster Presentation/ Case Study on a topic in the subject concerned (for 5 marks).
  - Finally, 40 marks should be the sum of Average and Assessment marks.

- The student, in each course, have to earn 35% of marks (i.e. 14 marks out of 40 marks) in CIE, 35% of marks (i.e. 21 marks out of 60) in SEE and Overall, 40% of marks (i.e. 40 marks out of 100 marks) both CIE and SEE marks put together.

The student is eligible to write SEE of the concerned subject, if the student scores ³ 35% (14 marks) of 40 CIE marks. In case, the student appears for SEE of the concerned subject but not scored minimum 35% of CIE marks (14 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.

Sample copy of ISE question paper is covered with the following Course Outcomes for the Signals and Systems subject of R22 Regulations. These outcomes are mapped to questions in Fig. 2.2.2.5 and Fig. 2.2.2.7 respectively.

CO1: Classify the signals, determine the orthogonality in vectors and signals, approximate signals using orthogonal functions and find the mean square error.

CO2: Analyze the spectral characteristics of continuous-time periodic and aperiodic signals using Fourier analysis.

CO3: Classify the systems, represent LTI systems and explain the filter characteristics of systems and condition for their realization.

CO4: Determine sampling frequency using sampling theorem, describe different sampling and reconstruction techniques.

CO5: Analyze the systems using convolution, correlation and find the ESD, PSD of different signals.

CO6: Apply LT and ZT techniques to analyze continuous-time and discrete-time signals and systems.

Table 2.2.2.3 shows the Marks Division of ISE for R22 Regulations and the sample copy of ISE Question Paper of R22 Regulations is shown in Fig. 2.2.2.5.

Table 2.2.2.3 Marks Division of Internal Semester Examination for R22 Regulations

Continuous Internal Evaluation-I (35M)	Internal Semester Examination I (30M)
	Assignment-I (5M)
Continuous Internal Evaluation-II (35M)	Internal Semester Examination II (30M)
	Assignment-II (5M)
Average (35M)	Continuous Internal Evaluation-I (35M)
	Continuous Internal Evaluation-II (35M)
Final Marks (40M)	Viva-voce / PPT / Case Study (5M)
	Average (35M)

Fig. 2.2.2.5 ISE Question paper of R22 Regulations

CIE forJNTUH Affiliation R16 Regulations

The performance of a student in every course (including Labs and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE and 75 marks for SEE. For Theory subjects, during a semester, there shall be two Internal Semester Examinations. While the first ISE shall be conducted on 50% of the syllabus, the second ISE shall be conducted on the remaining 50% of the syllabus.

- Five marks are allocated for assignments (as specified by the concerned course instructor).
- The first Assignment should be submitted before the conduct of the first ISE, and the second Assignment should be submitted before the conduct of the second ISE.
- Each ISE consists of one objective paper, one descriptive paper and one assignment.
- The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper).
- The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks.

- The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying 5 marks.
- The total marks secured by the student in each Internal Semester Examination are evaluated for 25 marks, and the average of the two ISEs shall be taken as the final marks secured by each student in internals.
- If any student is absent from any subject of a Internal Semester Examination, an on-line test will be conducted for him by the university. Table 2.2.2.4 shows the Marks Division of ISE for R16 Regulations.

Table 2.2.2.4 Marks Division of Internal Semester Examination for R16 Regulations

Continuous Internal Evaluation-I (25M)	Internal Semester Examination I (20M)
	Assignment-I (5M)
Continuous Internal Evaluation-II (25M)	Internal Semester Examination II (20M)
	Assignment-II (5M)
Average (25M)	Continuous Internal Evaluation-I (25M)
	Continuous Internal Evaluation-II (25M)

Semester End Examination (SEE)

The performance of a student in each semester shall be evaluated Subject-wise (irrespective of the Credits assigned) with a maximum of 100 marks for Theory, or Labs/ Practical's, or Engineering Graphics/ Engineering Drawing, or Elective Course, or Mini-Projects, or Seminar, or Project –I (Phase – I), or Project – II (Phase – II) etc.

An analysis is also performed to verify that the students are being tested based on the course outcomes defined in the syllabus pertaining to each of the subjects. It is also made sure that the assignment questions also evaluate the student learning based on the outcomes of the course. Table 2.2.2.5 shows the Marks Distribution details for Theory Courses in SEE for different Regulations.

Table 2.2.2.5 Marks Distribution details for Theory Courses in SEE for different Regulations

Regulations	SEE (Theory)				Overall 40% Pass Marks required out of 100 marks in CIE, SEE
	Distribution of Marks			Eligibility 35% of SEE Marks	
	Part A	Part B	Total Marks		
R18	10M	60M	70M	25M	40M
R22	10M	50M	60M	21M	40M
R16	25M	50M	75M	27M	40M

SEE for R18 Regulations

Evaluations shall be based on 30% CIE and 70% SEE basis, and a Letter Grade corresponding to the percentage of marks obtained shall be given. 70 marks are allocated for SEE, which is of 3 hours duration. The SEE Question Paper of R18 Regulations will have two parts:

- Part-A is for 10 marks and is compulsory- it consists of 5 questions of 2 marks each (1 question from each unit).
- Part-B is for 60 marks – it consists of 5 questions of 12 marks each (one question from each unit, it may contain sub-questions). For each question there will be 'either/ or' choice, which means that there will be two questions from each unit and the student should answer one of these two.

With reference to Fig. 2.2.2.6 each question in SEE is covered with the following Course outcomes for the Information Theory and Coding subject of R18 Regulations. These outcomes are mapped to questions in Fig.2.2.2.6 and Fig. 2.2.2.11 respectively.

CO1: Understand the applicability of Information concepts and various methods of error detection and correction.

CO2: Design the performance of different channel capacities, bounds.

CO3: Understand the capabilities of block codes and cyclic codes in terms of optimal encoding and decoding.

CO4: Analyze the performance of various data compression techniques.

CO5: Design codes for error detection and correction of sequential data with low error probability.

CO6: Design codes for error detection and correction of sequential data with low error probability.

Fig. 2.2.2.6 shows the sample copy of SEE for R18 Regulations of Information Theory and Coding subject.

[illegible] Institute of Technology & Science
(Autonomous) (for Women)
[illegible], Hyderabad [illegible]

III B.Tech I-Semester Regular/Supplementary Examinations, Jan/Feb 2023

INFORMATION THEORY AND CODING
(Electronics and Communications Engineering)

Max. Marks: [illegible] Time: 03 Hours

Note:
1. Question paper comprises of Part A and Part B.
2. Part A is compulsory which carries [illegible] marks. Answer all questions in Part A.
3. Part B [illegible] questions with "either" "or" pattern. Each question carries [illegible] marks and may have a, b, c as sub questions. [illegible] full question.

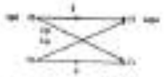
PART A
(Answer [illegible] questions. Each question carries 2 marks)

Q.No.	Question	Marks	CO	Bloom's Level
Q.1	a) Calculate the entropy for the given sample data AAABBBCCD	[02]	CO1	[L3]
	b) State the channel coding theorem for a discrete memoryless channel.	[02]	CO1	[L1]
	c) Consider G= [[illegible]], find out parity check matrix.	[02]	CO[illegible]	[L2]
	d) How syndrome is calculated in Hamming codes?	[02]	CO[illegible]	[L1]
	e) Define constraint length in convolutional codes.	[02]	CO6	[L1]

END OF PART A

PART B
(Answer [illegible] full questions. Each question carries [illegible] marks)

Q.No.	Question	Marks	CO	Bloom's Level
Q.2(a)	Show that the entropy of a collection of random variables is the sum of the conditional entropies.	[06]	CO[illegible]	[L2]
(b)	For a given channel [illegible] where [illegible]. Find channel capacity and I [illegible]	[06]	CO[illegible]	[L3]



OR

Q.No.	Question	Marks	CO	Bloom's Level
Q.3(a)	Explain the following in detail: i) [illegible] of [illegible]'s Inequality ii) Log Sum Inequality	[06]	CO[illegible]	[L2]
(b)	i) For a Binary Symmetric channel with error probability 'p', Draw the channel matrix and the channel diagram. ii) Derive the equation used in the computation of the mutual information for equiprobable inputs and p=0.[illegible]	[03+03]	CO2	[L3]

Fig. 2.2.2.6 Question paper of SEE for R18 Regulations

SEE for R22 Regulations

Evaluations shall be based on 40% CIE and 60% SEE basis, and a Letter Grade corresponding to the percentage of marks obtained shall be given. 60 marks are allocated for SEE, which is of 3 hours duration. Fig. 2.2.2.7 shows the Question Paper of SEE for R22 Regulations.

The SEE Question Paper of R22 Regulations will have two parts:

- Part-A is for 10 marks and is compulsory- it consists of 10 questions of 1 mark each (2 questions from each unit).
- Part-B is for 50 marks – it consists of 5 questions of 10 marks each (one question from each unit, it may contain sub-questions). For each question there will be 'either/ or' choice, which means that there will be two questions from each unit and the student should answer one of these two.

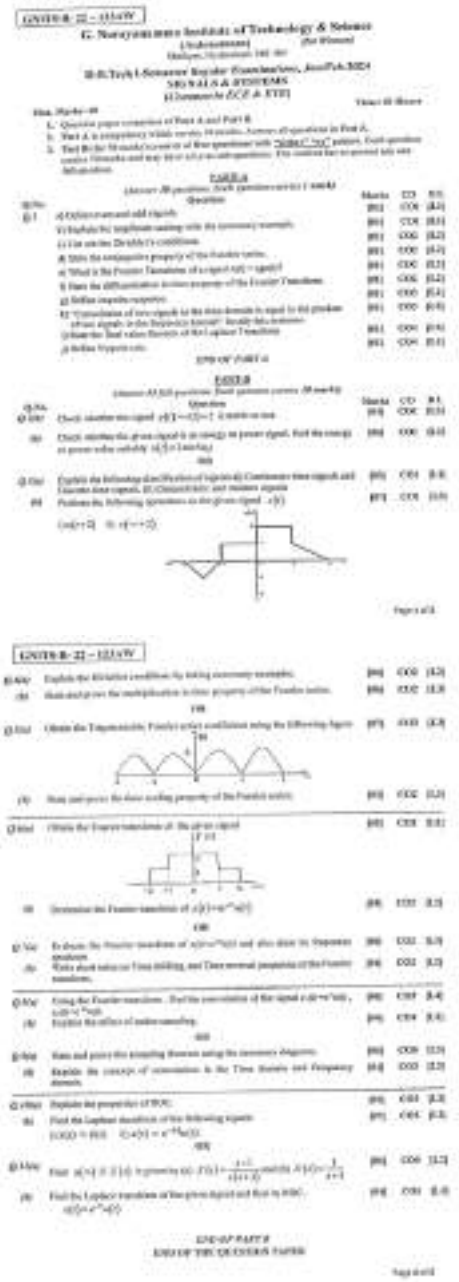


Fig. 2.2.2.7 Question Paper of SEE for R22 Regulations

SEE for JNTUH Affiliation R16 Regulations

Evaluations shall be based on 25% CIE and 75% SEE basis, and a Letter Grade corresponding to the percentage of marks obtained shall be given. 75 marks are allocated for SEE, which is of 3 hours duration. Fig. 2.2.2.8 shows the sample copy of Question Paper of SEE for JNTUH Affiliation R16 Regulations. There will be a total of eight questions of 15 marks each and out of which five questions need to be answered.

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MICROWAVE ENGINEERING

(Electronics and Communication Engineering)

Max. Marks: 75

Answer any Five Questions

All Questions Carry Equal Marks

Fig. 2.2.2.8 Question Paper of SEE for JNTUH Affiliation R16 Regulations

B. Process to ensure questions from Course Outcomes/ learning level prospective: (2)

The Quality of Questions Papers is guided based on CO and BT level statistics. Each Theoretical course is defined with specific measurable course outcomes reflecting student knowledge and skills upon completion.

For conduction of SEE, a panel of five members for each subject, minimum at a level of Assoc.Prof / Professors, preferably from IITs or NITs or University faculty / Autonomous colleges will be appointed for the preparation of question papers. The panel list will be sent to the principal to nominate the paper setters based on priority of the institution reputation, designation and experience.

Exam section will send request to first two subject experts nominated by the principal for setting up of the question papers.The Exam section will wait for 15 days for the reply from the question paper setter.If, there is no response from the nominated question paper setter, then move to the next nominated person in the panel for the same process.

Exam section will request to prepare and send two sets of question papers from each question paper setter. A total of four sets of question papers for each subject will be received from question paper setters at least two weeks before the commencement of examinations.

On the day of examination, Out of "Four" sets available only one set will be picked up in just Ninety minutes before the commencement of the exam and the level of question paper like quality, grammatical error and etc. will be checked by the moderation committee of the concerned subjects.

For each subject, two faculty members are identified as subject expert and senior faculty and informed one day before the examination to moderate the question paper one hour before the commencement of the examination.

The faculty member while moderating the question paper thoroughly scrutinizes both in lingual and technical way. Further, the moderator is required to ensure that

- The questions are within the syllabus and ensure all Cos are covered.
- The format of the model question paper is followed.
- The standards of the questions are maintained in accordance with BT Levels.
- The balance between the time allocated for the paper and the complexity or level of difficulty in answering the questions, and the marks allocated is maintained.

Once the question paper gets corrected, the CoE office will take of printing the question paper and the same is distributed to students during examination and exams will be conducted in smooth and fair manner.

After exam is over, answer scripts will be decoded and ready for spot evaluation. Evaluation will be done by external faculty from autonomous colleges or affiliated colleges. The entire process will be completed within 5 days after the completion of exams. As soon as spot valuation completes, the external marks data will be sent to Controller of Examinations.

Examination Result Processing Software is used to process the data given in the prescribed format and final results will be generated. A copy of the generated data of results will be submitted to the JNTUH, Hyderabad for approval of the same.

Upon the approval, exam section will declare the results. After declaration of results there is a provision of recounting, revaluation and personal verification for the students. If any student applies for revaluation, it will be evaluated by an external faculty and awarded the Marks accordingly Letter of Grade

corresponding to percentage of marks will be prepared for all the qualified students.

In case of any deviations, the moderator corrects/ changes the questions. However, the moderator has to substantiate the changes and give a report for the same. The identified suggestions through feedback given by the moderator are collected and considered for further process.

With reference to SEE question paper in Fig.2.2.2.6, CO and BT level Statistics and mapping of COs with Blooms Taxonomy Levels is shown in Fig. 2.2.2.9 and Fig. 2.2.2.10 respectively. The structured approach ensures that assessment questions effectively evaluate student learning in accordance with course objectives, supporting accreditation requirements and fostering student success.

Fig. 2.2.2.9 CO and BT Level Statistics for SEE of R18 Regulations.

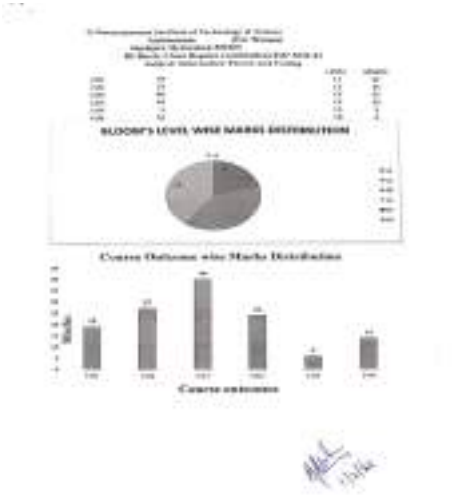


Fig. 2.2.2.10 Mapping of COs with Blooms Taxonomy Levels of SEE of R18 Regulations

C. Evidence of COs coverage in class test / mid-term tests (5)

In the ISE question papers, the COs coverage is ensured and mentioned in the printed question papers with Blooms Taxonomy levels.

- Question selection is referred from the prominent textbooks, previous years papers, and case studies. The standard questions level is strictly maintained and monitored.
- Papers setting adheres strictly to the university question paper template and the guidelines.
- Course Coordinator, Module Coordinator and Program Coordinator ensures the quality of the question paper before the ISE.
- Post-evaluation, the critical solutions, usual mistakes, and the top answer from the answer scripts are discussed and shared with the students post-evaluation.
- Each question in Internal Semester Examination of R18 and R22 Regulations is mapped with course outcomes with appropriate cognitive level Blooms Taxonomies as shown in Fig. 2.2.2.3 and Fig. 2.2.2.5.

- With reference to question paper in Fig. 2.2.2. 3, Fig. 2.2.2.11 shows the sample copy of CO and BT level Statistics of ISE for R18 Regulations.

Fig.2.2.2.11 CO and BT level Statistics for Internal Semester Exam for R18 Regulations

D. Quality of Assignment and its relevance to COs (5)

Following initiatives have been devised at the department level to prepare quality assignments for all internal assessments.

- Sample Assignments are discussed by the course coordinator to help the course instructors to understand what assignments should be given.
- Assignments are provided against each subject and evaluated at the time of Internal Semester Examination.
- The assignments are prepared by the concerned course instructors in consultation with Course Coordinators.

Survey of Questions from Multiple sources

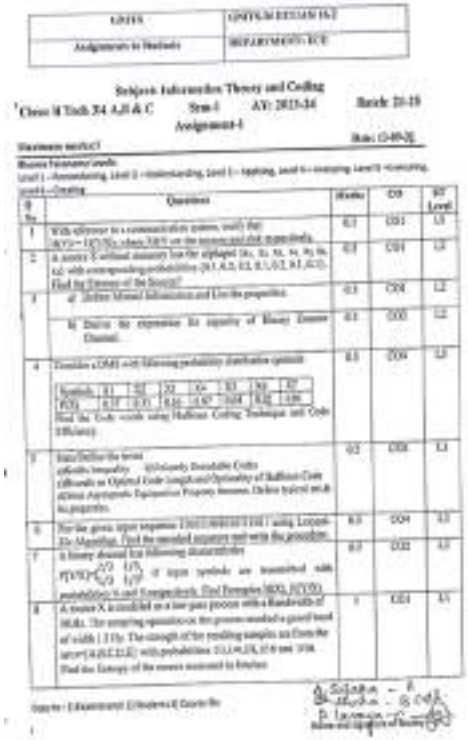
Course Instructors are also encouraged to include case studies and standard questions from an examination viewpoint. Students are encouraged to use standard content/references and follow standard books while writing their assignments.

The questions are framed in such a way to encourage self-learning habit of students and cover the Blooms Taxonomy Levels and Course Outcomes. It also ensures that the student refer different sources to answer the questions. Assignments are evaluated and reviewed to improve their learning capabilities.

Assignment Evaluation

There shall be 2 Assignments per semester, and 5 marks are allocated for each Assignment. The first Assignment should be submitted before the conduct of the first Internal Semester Examination, and the second Assignment should be submitted before the conduct of the second Internal Semester Examination.

- The Assignments shall be as specified by the concerned course instructor, and the average of these two Assignments shall be taken into account for 5 marks. Fig. 2.2.2.12 shows the sample copy of Assignment Question Paper of R18 Regulations.
- Each question in ISE is covered with the associated Course Outcomes and Bloom's Taxonomy Levels.
- The Assignments are evaluated and Course Instructor discusses the solutions to the questions in Assignments with the students in the class.
- A final consolidated Internal Semester Examination marks statement of the current semester are verified by the concerned course instructors, students and finalized marks after verification are sent to the Head of the Departments by CoE for verification.



Subject: Information Theory and Coding

Class: II Tech. IV A,B & C Sem: I AY: 2023-24 Batch: 21-25

Assignment-I

Fig. 2.2.2.12 Assignment Question paper of R18 Regulations

2.2.3 Quality of student projects (20)

Institute Marks : 20.00

A. Identification of projects and Allocation Methodology to Faculty Members (2)

Department has initiated the practice of Project Based Learning and Research Based Learning for UG students right from UG Third year to Final year. Main objective of the Project work is to apply Engineering knowledge to solve real world problems by conducting thorough investigations using modern tools. It also induces ethics in their thought process as a major giveback to society, fostering their communication and letting them thrive with both individual and team work, eventually directing them to a life-long learning process.

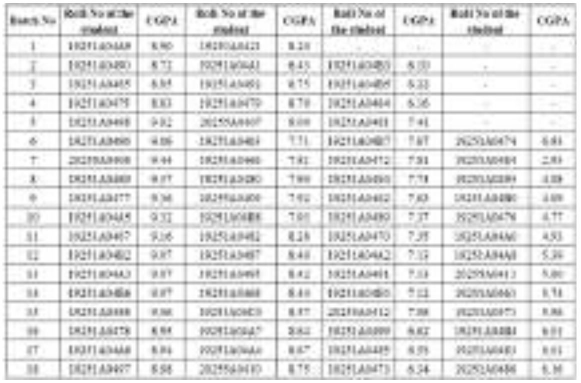
Projects Identification

A systematic process established and adopted for the Project Identification and Allocation, Review and Evaluation to maintain the quality of the projects depicted in Fig. 2.2.3.1.

- Before the commencement of every academic year Project Review Committee (PRC) is formed by the Head of the Department. PRC Composition consists of HOD and Senior faculty members to determine the process of evolution of projects, during which 4 reviews are being conducted whose pivoted points are Abstract Review-finding problem statement, Literature Survey-focusing on the process to finalize the problem statement, Implementation and Results.
- Major project is divided into 2 phases, Phase-I in IV-year I Sem and Phase-II in IV-year II Sem where Phase-I consists of two reviews (1 & 2) while Phase-II has remaining two reviews (3 & 4).

Fig. 2.2.3.1 Process established for Project Identification and Allocation, Review and Evaluation

- Student's Project Batch formation is done during their III-year II Sem with the size of 2 to 4 students. At the beginning of the semester, students are grouped into bright, above average, average and below average, based on their performance in academics (CGPA).
- A Project Batch is formed by choosing one student each from the 4 Groups. In cases, where a group of students is collaborating on a project from the public or private sectors, approval from the Head of Department (HOD) is necessary, and a letter of reference must be forwarded to the relevant sector.
- An Internal Guide from the department will mentor such students, while an External Guide from the relevant sector will also be appointed.



Batch No	Roll No of the student	CGPA	Roll No of the student	CGPA	Roll No of the student	CGPA	Roll No of the student	CGPA
1	[illegible]	[illegible]	[illegible]	[illegible]	-	-	-	-
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	-
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Fig. 2.2.3.2 Project Batches formation during 2021-22 Academic Year

Guides Allocation Process

- As per Fig. 2.2.3.2 depiction**,** once student project Batches are formed, students can select their areas of interest.
- Each Faculty member's areas of competence/interest are listed and circulated to the students. With this practice, students will be allocated to the proficient supervisor to guide them in the right way.
- Students meet the concerned faculty who is expert in that area to explore about the possibility to take up the work as a major project work for a period of one year.
- This project supervisor allotment is purely based on the domain of the project and the expertise of the faculty available in the department. Table 2.2.3.1 shows the areas of competence/ interest of the faculty members collected for the year 2021-2022.

Table 2.2.3.1 2021-22 Faculty Competence details for project allotment

S No.	Staff Name	Designation	Areas of Interest
1	Dr. K.Ragini	Professor & HOD	VLSI Design
2	Dr.B.Venkateshulu	Professor & Dean, Alumni Relations & Higher Education	Communications
3	Dr.Renuka Methre	Professor	Signal & Image Processing
4	Dr. Swapna Raghunath	Professor	GNSS, Ionospheric studies, Precision Agriculture
5	Prof.Ch.Ganapathy Reddy	Professor	Signal Processing
6	V.Uma	Associate Professor	Image Processing
7	Dr M Vijaya lakshmi	Associate Professor	Wireless Networks
8	B.Tulasi Sowjanya	Assistant Professor	Communications
9	V.Radha Krishna	Assistant Professor	VLSI
10	N.Krishna Jyothi	Assistant Professor	Antennas Designing using HFSS
11	A.Sujatha Reddy	Assistant Professor	Communications
12	P.Chandra Sekhar	Assistant Professor	Embedded Systems
13	M.Madhuri Latha	Assistant Professor	Signal Processing
14	P.Sri Padma	Assistant Professor	Image processing
15	A.Sarada	Assistant Professor	Signal processing
16	Chindam Hari Prasad	Assistant Professor	Signal Processing
17	Y.Rakesh Kumar	Assistant Professor	Image processing
18	B.Sreekanth Reddy	Assistant Professor	VLSI, IoT
19	T.Sri Latha	Assistant Professor	Signal Processing
20	Dr C.Padmaja	Assistant Professor	Wireless Communication
21	P.Madhuri	Assistant Professor	Image Processing
22	M.Lakshmi	Assistant Professor	Signal processing
23	K.Swathi	Assistant Professor	IoT
24	N.Harini	Assistant Professor	IoT
25	GVNSK Sravya	Assistant Professor	IoT
26	P.Roopa Ranjani	Assistant Professor	VLSI
27	V.Shankar	Assistant Professor	VLSI
28	M.Shanthi	Assistant Professor	IoT, VLSI
29	C.Sridhar Babu	Assistant Professor	Signal processing
30	P.Satyanarayana Goud	Assistant Professor	Signal Processing
31	P Lavanya	Assistant Professor	IoT
32	G Madhavi	Assistant Professor	IoT
33	Y Prakash	Assistant Professor	Antennas
34	Ch Anusha	Assistant Professor	Wireless Communication, Internet of things
35	G.Krishna Kishore	Assistant Professor	Wireless Sensor Networks
36	Purna Chandra Reddy V	Assistant Professor	Medical Image Processing
37	Dr. P.Sai Spandana	Assistant Professor	Bio Electromagnetics, RF & Microwave, Antenna Systems
38	Nagaraju.L	Assistant Professor	Antenna Array, Signal Processing
39	Dr.B.Pavani	Assistant Professor	Micro Electronics, CN, IoT, ML, HCI, CV
40	Malathi.N	Assistant Professor	Embedded Systems, Low Power VLSI

- **Identification of Project Problem Statement**
  - After the supervisor allocation, students are required to perform a comprehensive review of literature within their field of interest, articulate a problem statement, and compose a concise abstract outlining their proposed project under the guidance of supervisor.
  - Students are advised to seek guidance from faculty members or experts in industry, research labs, or government organizations to ensure the successful completion of their project. A detailed Circular will be shared with students regarding this. Fig. 2.2.3.3 shows the evidence of guidelines issued to students about identifying the problem definition, project work flow.

Fig. 2.2.3.3 Instructions to students regarding projects

B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs (2)

Projects Classification

The projects selected by the students are based on the core/interdisciplinary areas of their course of study. The project could be targeted for developing a prototype of an innovative idea or based on implementation and improvements in some of the existing ideas from latest research papers. The learning during the projects helps the students, to get an idea about the latest state of art in their areas of interest, understand some of the design development flows and standards that are followed in the industries. Area/Domain specialization of the projects may fall under one of the following fields - VLSI, Embedded system, Communication, Signal processing, Antenna design and Computer networks etc., which addresses problems related to environmental, societal, healthcare, sustainable and research issues (not limited). Fig.2.2.3.4 shows the summary of Major project classification.

Fig. 2.2.3.4 Major Project Classification

Projects Mapping with Program Outcomes (POs) and Program Specific Outcomes (PSOs)

Contribution of Projects towards POs and PSOs would be done with one specific procedure which is explained below

Course outcomes are listed for Mini and Major Projects as follows

CO 1	Research literature to identify existing solutions to practical engineering problems and gain insight into new and better ways of solving it.
CO 2	Demonstrate effectively the solutions to complex engineering problems to the engineering community and with society at large.

CO 3 Implement solutions for complex engineering problems and design system components or processes that meet the specified requirements.

CO 4 Document the complete design cycle in a precise and succinct manner.

CO 5 Work as a part of diverse team to deliver best quality deliverables.

PRC members will evaluate each student based on the evaluation rubrics shown in Table 2.2.3.2 and Table 2.2.3.3 whereas the Internal Supervisor evaluated each student, by following rubric shown in Table 2.2.3.4. Each Evaluation Rubric is mapped to Course Outcomes and each Course Outcome attainment will be calculated.

Table 2.2.3.2 Project Phase-I, Evaluation Rubrics for Continuous Internal Evaluation (Review-1)

S.No (http://s.no/)	**Performance Parameter**	**CO Mapping**	**Inadequate (1 M)**	**Average (2 M)**	**Outstanding (3 M)**
1	Topic selection	CO1	Useful for limited group and not innovative	Useful for society but not innovative	Completely Innovative and useful for society
2	Literature survey	CO1	Not standard references	conference paper	standard journal
3	Problem Definition	CO1	Nearly meets expectations	Meets expectation in some manner	Exceeds expectation
4	Presentation	CO2	Hard to follow; sequence of information not proper	Most of information is presented in sequence	Information presented is interesting, in sequence & easy to follow
5	Level of Understanding	CO1	30%	60%	90%

Table 2.2.3.3 Project Phase-I (Review 2) & Phase – II (Review 3, 4) Evaluation Rubrics for Continuous Internal Evaluation

S.No (http://s.no/)	**Performance Parameter**	**CO Mapping**	**Excellent (3M)**	**Average (2M)**	**Poor (1M)**
1	Technical design	CO3	Meets/exceeds specifications with efficient design.	Meets average specifications	Meets poor specifications
2	Percent of Work Completion	CO3	90%	80%	50%
3	Explanation of the results on the work done	CO3	Appropriate explanation of results obtained and insightful conclusions	Produced some results, but lack of sufficient support for their conclusions	Generated few results. Conclusions are not clear
4	Level of Understanding	CO3	100 to 80%	60 to 40%	20 to 10%
5	Oral Presentation	CO2	Demonstration with good technical details and communication skills.	Demonstration with Avg technical skills and communication	Demonstration with poor technical skills and communication
6	Team Management	CO5	Excellent Coordination of team members.	Average Coordination of team members.	Poor Coordination of team members.
7	Clarity of Future work	CO3	Able to explain future scope clearly	Average idea about future work	Poor idea about future work
8	Visual Presentation	CO2	Information presented is in sequence & easy to follow	Information presented is in partial sequence	Hard to follow; Sequence of information is not proper
9	Use of modern technology	CO3	Extensive use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Low use of advance tool for design & simulation
10	Overall Project quality	CO3	Good, directly suitable for real time application	Satisfactory, partially applicable for real time problem	Poor, not suitable for real time application

Table 2.2.3.4 Internal Guide Marks Evaluation Rubrics for Continuous Internal Evaluation

S. No.	**Evaluation Parameters**	**CO Mapping**	**Inadequate (1 M)**	**Average (2 M)**	**Admirable (3 M)**	**Outstanding (4 M)**
1	Effective communication	CO5	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner	Exceeds expectation
2	Is able to give correct answers appropriate to guide's questions	CO 3	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner	Exceeds expectation
3	Interaction with Guide	CO 5	Less responsive	Rare	Not punctual	Regular & Punctual
4	Level of Understanding the Project	CO 4	>20%	>40%	>60%	>80%
5	Individual Contribution	CO 5	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements and specification	Contribution in overall work

Course Outcomes of Projects are mapped to POs and PSOs. The CO-PO mapping is formulated using a specific procedure.

- First, the keywords of each CO are identified. The identified keywords are mapped to the action verbs in the PO.
- The Correlation level with respect to CO-PO mapping can be described as follows:

- Assuming there are n key points in each Course Outcome, for each key point of the CO that maps with the respective PO a score of 1/n is allotted as the CO-PO mapping. Summation of all such Scores lead to the total CO-PO mapping.
- Based on the CO-PO/PSO mapping, the correlation levels are assigned to the mapping as shown in Table 2.2.3.5.

Table 2.2.3.5 CO-PO Correlation Levels

CO-PO mapping	Correlation	Correlation Level
< 0.25	No	-
≥ 0.25 to < 0.50	Weak	1
≥ 0.50 to < 0.75	Moderate	2
≥ 0.75	Strong	3

Fig. 2.2.3.5 Venn Diagram for Mapping of COs to PO1

Mapping of COs to PO1 for Projects is shown in Fig. 2.2.3.5. A similar method is employed to arrive at the CO-PO/PSO mapping for all POs/PSOs and a CO-PO/PSO Correlation Matrix is prepared as shown in Table 2.2.3.6.

Table 2.2.3.6 CO-PO/PSO Correlation Matrix for Project Work

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO 1	3	3	-	1	1	-	1	-	-	-	1	1	3	-
CO 2	2	1	2	1	-	1	3	3	-	3	2	1	3	3
CO 3	2	3	3	3	3	2	2	3	-	-	-	2	3	-
CO 4	-	-	-	-	-	-	-	-	-	3	-	-	-	3
CO 5	-	-	-	-	-	-	-	3	3	2	3	2	3	2
CO	**2.33**	**2.33**	**2.50**	**1.67**	**2.0**	**1.5**	**2.0**	**3.0**	**3.0**	**2.67**	**2.0**	**1.50**	**3.0**	**2.67**

- After obtaining Course Outcome attainment, PO/PSO attainment will be obtained. The calculation of Direct PO attainment is based on the CO attainment of each course and the CO-PO/PSO mapping matrix.
- The CO-PO/PSO mapping once calculated, based on the attainment obtained for project, each PO/PSO attainment can be formulated as:
- PO/PSO Attainment = (CO attainment of Project × Correlation Level between CO and PO/PSO) / 3

Table 2.2.3.7 illustrates the CO - PO/PSO attainment for Project academic year wise.

Table 2.2.3.7 PO & CO attainment of Major Projects

Academic Year	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2020-21	3	3.00	3.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	3.00	3.00	3.00	3.00	2.00
2021-22	3.00	2.17	2.17	2.33	1.56	1.87	1.40	1.87	0.93	2.80	2.49	1.87	1.40	2.80	2.49
2022-23	2.97	2.14	2.14	2.30	1.54	1.84	1.38	1.84	2.76	2.76	2.46	1.84	1.38	2.76	2.46

C. Projects related to Industry (3)

Student projects undertaken in collaboration with various institutes and industries can provide valuable learning experiences and practical applications of academic knowledge. Some industry partners may collaborate with educational institutions to provide training programs or workshops for students.

Continuous Monitoring Mechanism and Evaluation

For the batches who are doing the project outside the home institute, will be allotted with two supervisors, one from ECE Department, GNITS and the other from Industry or Institute, so that student's participation will be monitored and evaluated effectively. Monitoring involves tracking student participation, engagement levels, and learning outcomes. Evaluation methods may include pre- and post-training assessments, skill demonstrations.

Methods for monitoring and evaluation of student-industry projects typically include

- **Regular Meetings and Check-ins:** Scheduled meetings between students, academic supervisors, and industry mentors to review progress, address challenges, and provide guidance.
- **Project Documentation:** Students may be required to maintain project documentation such as project plans, progress reports, minutes of the meeting, and code repositories to track project activities and outcomes.

- **Assessment Rubrics:** Clear assessment criteria and rubrics are essential for evaluating student performance and project outcomes objectively. These criteria may include factors such as project quality, creativity, technical proficiency, and adherence to deadlines.

Table 2.2.3.8 List of Projects done at various institutes and industries

SNo	Batch No.	Roll No.	Title of the Project	Organization/Institute	Name of Internal Guide
1	C18	17251A04E6 17251A04G7 17251A04E7 17251A04H2	Indoor Air Quality Monitoring System	International Institute of Information Technology (IIITH) Prof. C R Rao Road, Gachibowli, Hyderabad, 500 032 , Telangana, INDIA, Phone: +91-40-6653 1000	Mrs.M.Madhuri Latha
2	B7	17251A0464 17251A04A7 17251A0468 17251A0486	Analysis of Signal parameters of Chinese BeiDou-2 and US GPS SNS under various conditions	Osmania University Osmania University Main Rd, Amberpet, Hyderabad, Telangana, 500007 Phone: 040 2768 2444	Dr.Swapna Raghunath
3	A18	18251A0444 18251A0452	Energy Efficient IoT based Waste Management System	International Institute of Information Technology (IIITH) Prof. C R Rao Road, Gachibowli, Hyderabad, 500 032 Telangana, INDIA, Phone: +91-40-6653 1000	Mrs.M.Madhuri Latha
4	A7	18251A0410 18251A0421 18251A0416 18251A0412	Kalman Filter Design for Ballistic Missile Defence Application	Defence Research & Development Laboratory Kanchanbagh, Hyderabad-500058 Phone: 0091 40 24583000 Fax : 040-24340109 E-mail ID : director[dot]drdl[at]gov[dot]in Mrs M.Lakshmi	
5	A8	18251A0438 18251A0436 18251A0434	Speech Enhancement and Recognition	Defence Research & Development Laboratory Kanchanbagh, Hyderabad-500058 Phone: 0091 40 24583000 Fax : 040-24340109 E-mail ID : director[dot]drdl[at]gov[dot]in	Ms C.Anusha
6	B18	18251A0499 18251A04A6	Implementation of Smart Bus Tracking System using IoT	International Institute of Information Technology (IIITH) Prof. C R Rao Road, Gachibowli, Hyderabad, 500 032 Telangana, INDIA, Phone: +91-40-6653 1000	Mrs.M.Madhuri Latha

7	C7	18251A04C7 18251A04E5 18251A04D7 18251A04J0	Design and Analysis of Dual Circular Polarized Antenna	M/s Navstar Integrated Systems Pvt.Ltd., Address: 24, Gandhi Nagar Industrial Area, Sanjay Gandhi Nagar, Balanagar, Hyderabad, Telangana 500037, Ph: 070326 84070	Mrs.N.Krishna Jyothi
8	A13	19251A0451 19251A0403 19251A0422 19251A04G6	IoT based Noise Pollution Monitoring System	International Institute of Information Technology (IIITH) Prof. C R Rao Road, Gachibowli, Hyderabad, 500 032 Telangana, INDIA, Phone: +91-40-6653 1000	Mr B.Sreekanth Reddy
9	B18	19251A04A5 19251A04A6	Implementation of High Speed Serial I/ O using Xilinx tools in FPGA	Defence Research & Development Laboratory Kanchanbagh, Hyderabad-500058 Phone: 0091 40 24583000 Fax: 040-24340109 E-mail ID: director[dot]drdl[at]gov [dot]in	Mrs.M.Shanthi
10	B6	20251A0492 20251A0475 20251A0482 20251A0493	Traffic Sign Classification using Tensorflow and Deployment on to ASIC for Engineering Application	M/s. PVR Tech HubAddress: 43, Tripura Landmark 2, Bowrampet, Dundigal, Hyderabad -500043 https:// www.pvrtechub.com/ ph: +91-8374236618	Mr.G.Krishna Kishore
11	B16	20251A04B0 20251A04A2 20251A0466	Autonomous Driving of a Rover based on traffic signals	M/s. PVR Tech HubAddress: 43, Tripura Landmark 2, Bowrampet, Dundigal, Hyderabad -500043 https:// www.pvrtechub.com/ ph: +91-8374236618	Mrs.P.Madhuri
12	B8	20251A04B9 20251A04B4	Combining Techniques of Solid State Power Amplifier	National Remote Sensing Centre, Indian Space Research Organisation, Dept. of Space, Govt. Of India, Balanagar, Hyderabad - 500037, Telangana State	Mrs A.Sujatha Reddy

D. Process for Monitoring and Evaluation (2)

The Departmental Project Review Committee and the Project Supervisor together will evaluate and analyze the nature of the project during the project reviews conducted at the different stages of evaluation and make sure that the work is having good progress. Students are motivated to publish their project work in reputed journals/patents along with the help of project supervisor after the completion of the project work.

Methodology to assess individual understanding of the project as well as collective understanding

- Each project group must give presentation in front of PRC and supervisor. PRC and along with supervisor monitors and evaluates whether the work is going in a right direction or not and evaluates each student knowledge level and contribution towards the progress of project work.
- Phase I (Project-I) during IV Year I Semester, Phase -II (Project-II) during IV Year II Semester and the student has to prepare two independent Project Work Reports one during each phase. First Report shall include the Project Work carried out under Phase - I and the Second Report (Final Report) shall include the Project Work carried out under Phase - I and Phase - II put together.
- Phase I and Phase - II of the Project Work shall be evaluated for 100 marks each. Out of the total 100 marks allotted for each Phase of the Project Work, 30 marks shall be for the Internal Evaluation and 70 Marks shall be for the End Semester Viva-Voce Examination.
- For both Mini Project and the Major Project Phase - I, the Viva-Voce shall be conducted at the end of the IV Year I Semester, before the commencement of End Examinations.
- The committee also advises the students regarding the deficiencies or modifications in the project and accordingly the students incorporate the feasible changes in their project work and proceeds further.

Mini Project Evaluation

R18 Regulations

- There shall be a Mini-Project, preferably in collaboration with an Industry with the relevant specialization, to be registered immediately after III Year II Semester examinations, and taken up during the summer vacation (between III and IV Years) for about eight weeks duration.
- The Mini-Project work shall be submitted in a Report form, and a presentation of the same shall be made before a Committee and is evaluated for **100 Marks** by the committee.
- The Committee shall consist of the Head of the Department, the supervisor of Mini Project, and a Senior Faculty Member of the Department.
- There shall be **no internal marks** for Mini-Project. Performance evaluation of the Mini-Project shall be included in the IV Year I Semester Grade Card.

R22 Regulations

- There shall be two Mini-Projects – first one (Mini-Project 1 or MP1) will be during II Year II Semester (also termed Real Time Project, based on Laboratory Experiments and Teachers 'advice) and the second one (Mini-Project 2 or MP2) is preferably in collaboration with an Industry with the relevant specialization (Industry Oriented Mini-Project), to be registered immediately after II Year II Semester examinations, and taken up during the summer vacation (between II and III Years) for about eight weeks duration.
- Students also have an option to choose Industry Internship (instead of Industry Oriented Mini-Project) for MP2, if they secure selection at any reputed Industry.
- The Mini-Project Work shall be submitted in a Report form, and a presentation of the same shall be made before a Committee, which is evaluated for **100 marks** by the Committee.
- The Committee shall consist of - 1) Head of the Department (for MP2) / a Professor of the Department (for MP1), 2) the Supervisor of Mini-Project, and 3) External Examiner (for MP2) / a Senior Faculty Member of the Department (for MP1).
- There shall be **no internal marks** for Mini-Projects. Performance evaluation of MP1 and MP2 shall be included in the II Year II Semester Grade Card and III Year II Semester Grade Card, respectively.
- The External Examiner for MP2 shall be nominated by the principal from the panel of 3 names of external faculty members (Professors or Associate Professors outside the College) submitted by the Head of Department.
- Performance Evaluations of MP1, MP2 and Mini-Projects will be included in the II Year – II Semester, and III Year – II Semester Grade Cards, respectively.
- Industry Internship (for MP2, in place of collaborative Mini-Project) is exclusively meant for those students who have been considered eligible and selected accordingly by the industry.
- Based on such selection letters from Industry, approvals will be given to students by the Principal of the Institution to carry out the Industry Internship for the specified period.
- The work performed during the Internship and the outcomes shall be reported in a Report form, which will also be evaluated in the same format

JNTUH Affiliation Regulations R16

- There shall be an UG Mini-project, in collaboration with an industry of their specialization.
- Students will register for this immediately after III year II semester examinations and pursue it during summer vacation.
- The UG mini-project shall be submitted in a report form and presented before the committee in IV year I semester.
- It shall be evaluated for 100 marks. The committee consists of an external examiner, Head of the Department, supervisor of the UG mini-project and a senior faculty member of the department.
- There shall be no internal marks for UG mini-project.

Major Project Evaluation

R18 Regulations

- Each student shall start the Project Work during the IV Year I Semester as per the instructions of the Project Guide/ Project Supervisor assigned by the Head of the Department.
- The Project Work shall be divided and carried out in 2 phases: Phase – I (Project-I) during IV Year I Semester, and Phase – II (Project-II) during IV Year II Semester, and the student has to prepare two independent Project Work Reports – one each during each phase.
- First Report shall include the Project Work carried out under Phase – I, and the Second Report (Final Report) shall include the Project Work carried out under Phase – I and Phase – II put together. Phase – I and Phase – II of the Project Work shall be evaluated for 100 marks each.
- Out of the total 100 marks allotted for each Phase of the Project Work, 30 marks shall be allotted for the CIE, and 70 Marks shall be allotted for the SEE.
- The Marks earned under CIE for both Phases of the Project shall be awarded by the Project Guide/Supervisor (based on the continuous evaluation of student's performance during the two Project Work Phases/periods) and the marks earned under SEE shall be awarded by the Project Viva-voce Committee/ Board (based on the work carried out, report prepared and the presentation made by the student at the time of Viva-voce Examination).
- For the Project Phase - I, the Viva-voce shall be conducted at the end of the IV Year I Semester, before the commencement of that SEE, at the Department Level by a Committee comprising of the HoD or One Professor and Supervisor (no external examiner), and the Project Phase – II (or Final Project Viva-voce) shall be conducted by a Committee comprising of an External Examiner, the Head of the Department and the Project Supervisor at the end of the IV Year II Semester, before the commencement of semester end examinations.
- The nomination of the External Examiner shall be done by the Principal from the panel of 3 names of external faculty members (Professors or Associate Professors outside the College) submitted by the HOD.

R22 Regulations

- Each student shall start the Project Work during the IV Year I Semester as per the instructions of the Project Guide/ Project Supervisor assigned by the Head of the Department.
- The Project Work shall be divided and carried out in 2 phases: Phase – I (Project - I) during IV Year I Semester, and Phase – II (Project - II) during IV Year II Semester, and the student has to prepare two independent Project Work Reports – one each during each phase.
- First Report shall include the Project Work carried out under Phase – I, and the Second Report (Final Report) shall include the Project Work carried out under Phase – I and Phase – II put together. Phase – I and Phase – II of the Project Work shall be evaluated for 100 marks each.
- Out of the total **100 marks** allotted for each Phase of the Project Work, **40 marks** shall be for the CIE (Continuous Internal Evaluation/CIE), and **60 marks** shall be for the End Semester Viva-voce Examination (SEE).
- The marks earned under CIE for both Phases of the Project shall be awarded by the Project Guide/Supervisor, based on the continuous evaluation of student's performance and her presentations at the Project Review Committee (PRC) Meetings in the Department, during the two Project Work Phases/periods.
- The PRC shall be constituted by the Head of the Department, and shall consist of the Head of the Department (HoD), Project Supervisor, and a Senior Faculty Member of the Department.
- The PRC shall monitor and review the progress of the Project Work, based on the PRC presentations and performance evaluations.
- The marks earned under SEE shall be awarded by the Project Viva-voce Committee/ Board (based on the work carried out, report prepared and the presentation made by the student at the time of Viva-voce Examination).
- For the Project Phase - I, the Viva-voce shall be conducted at the end of the IV Year I Semester, before the commencement of the SEE, at the Department Level by the Project (Phase – I) Evaluation Committee comprising of HoD or One Professor (nominated by the HoD), Supervisor (no External Examiner).
- For the Project Phase – II Viva-voce (or Final Project Viva-voce) shall be conducted by a Project (Phase -II) Evaluation Committee comprising of an External Examiner, HoD and the Project Supervisor at the end of the IV Year II Semester, before the commencement of the Semester End Examinations.
- The External Examiner shall be nominated by the principal from the panel of 3 names of external faculty members (Professors or Associate Professors outside the College) submitted by the HoD.
- The student would be treated as failed, if she - (i) does not submit a Report on her Projects (Phase – I or Phase – II), or does not make a presentation of the same before the Evaluation Committee as per specified schedule, or (ii) secures less than 40% of marks (that is, 40 marks) in the sum total of the CIE and SEE taken together, in her Projects evaluations.
- Student may reappear once for each of the Projects evaluations, as and when they are scheduled again.
- If she fails in such 'one reappearance' evaluation also, she has to reappear for the same in the next subsequent semester, as and when they are scheduled, as supplementary candidate.

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- Out of a total of 100 marks for the UG major Project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva-voce).
- The SEE of the UG Major Project shall be conducted by the same committee as appointed for the UG Mini-project.
- In addition, the UG Major Project supervisor shall also be included in the committee.
- The topics for UG Mini project, seminar and UG Major Project shall be different from one another.

- The evaluation of UG Major Project shall be made at the end of IV year II semester.
- The internal evaluation shall be done on the basis of two seminars given by each student on the topic of UG major Project.

The following Table 2.2.3.9 shows the criteria to be followed during the evaluation of project reviews.

Table 2.2.3.9 Process of Project Review

Review No.	Criteria to determine the evaluation of project
Review-1	Problem Statement is derived and objectives are well defined. The strategic plan leading for upcoming advancements in project work is categorized into modules to work in 2 phases.
Review -2	Literature Survey is studied with every detail included to emphasize their journey to the problem statement derived. Methodology chosen is observed keenly. Comparative analysis between existing and proposed system are also canvassed here.
Review-3	The quality of the project is maintained by its compatibility, complexity, and ease of use along with algorithms and performance parameters defined earlier. Partial results are also seen in this review.
Review-4	Arriving to a considerable end of developing the project - results, discussions on future enhancements, documentation of thesis, presentations are given in this review. Paper Publications/Patents published in reputed journals stand as an accomplishment for their hard work and dedication towards it.

- **Review-1:** Abstract Review will be conducted by PRC formed by HOD. Students will be presenting their problem statement, their further plan of action of how to go ahead with the project is given in form of objectives & modules which are implemented in two phases. If the problem statement derivation or defining objectives is not yet to achieve, then as per Fig 2.2.3.1 students should work on the suggestion given by PRC and then get the approval of project.
- **Review 2:** In this review, the PRC and supervisor are going to validate the methodology chosen by students. Existing methodologies are thoroughly investigated to overcome the flaws of prevailing ones. Implementation process will be reviewed.
- **Review 3:** In this review, student projects in the implementation phase are analyzed, along with which their objectives and modules are also assessed. Compatibility, Complexity and Partial Results are also taken into consideration during this review.
- **Review 4:** With this review, Completion of the project is seen. Evaluation of the project is done based on efforts made by the individuals/batches in terms of technology used, approach used to solve the problem statement, product/app developed. Presentations are scheduled as part of continuous assessment till the end of the year to acquire the better quality of projects through engineering. Documentation is done to maintain the particulars of project in a comprehensive manner. Adding to these parameters paper publications done by students will also stand as an accomplishment for the work carried out by supervisor and PRC. External Viva Voce is being conducted by an academician/ industry expert to perceive the best projects.
- **Progress Review Sheets** are issued to Supervisors for continuous internal assessment and to establish communication with students in terms of progress of the project. This needs to be submitted to PRC members during every review.

Fig. 2.2.3.6 Evidence of Progress Review Sheet

The evaluation and the assessment criteria and the division of marks for the CIE and the SEE are as follows

a. The Project Work shall be divided and carried out in 2 phases: Phase - I (Project-I) during IV Year I Semester, and Phase - II (Project -II) during IV Year II Semester, and the student has to prepare two independent Project Work Reports – one during each phase. First Report shall include the Project Work carried out under Phase-I, and the Second Report (Final Report) shall include the Project Work carried out under Phase -I and Phase - II put together. Phase- I and Phase- II of the Project Work shall be evaluated for 100 marks each.

Table 2.2.3.10 Assessment Criteria Phase-I and Phase-II

Assessment	Evaluator	CIE / SEE
Internal	PRC, Supervisor	CIE (30M)
External	Viva Voce by External Examiner	SEE (70M)
	Total	100M

a) As in Table 2.2.3.10 shows, out of the total 100 marks allotted for each Phase of the Project Work, 30 marks shall be for the CIE (Continuous Internal Evaluation/CIE).

b) 70 Marks shall be for the End Semester Viva voce Examination/SEE). The Marks earned under CIE for both Phases of the Project shall be awarded by the Project Guide/ Supervisor (based on the continuous evaluation of student's performance during the two Project Work Phases/periods); and the marks earned under SEE shall be awarded by the Project Viva-voce Committee/ Board (based on the work carried out, report prepared and the presentation made by the student at the time of Viva-voce Examination).

c) For the Project Phase - I, the Viva-voce shall be conducted at the end of the IV Year I Semester, before the commencement of that Semester End Examinations, at the Department Level by a Committee comprising of the HOD or One Professor and Supervisor (no external examiner).

d) Project Phase - II (or Final Project Viva-voce) shall be conducted by a Committee comprising of an External Examiner, the Head of the Department and the Project Supervisor at the end of the IV Year II Semester, before the commencement of semester and examinations. The nomination of the External Examiner shall be done by the Principal from the panel of 3 names of external faculty members (Professors or Associate Professors outside the College) submitted by the HOD.

Fig. 2.2.3.7 shows the Assessment for CIE. There are 5 Rubrics which are followed for evaluating Project work in CIE for Phase-I PRC 1.

Fig. 2.2.3.8 shows the Assessment for CIE. There are 10 Rubrics which are followed for evaluating Project work in CIE for Phase-I (PRC 2) and Phase-II (PRC 3 & PRC 4).

Fig. 2.2.3.7 Sample copy of PRC 1 Evaluation Sheet

Fig. 2.2.3.8 Sample copy of PRC 2 Evaluation sheet

Assessment Procedure adopted for Continuous Internal Evaluation (CIE) by Supervisor

The procedure for the internal review and evaluation of project work is meticulously structured to ensure thorough scrutiny and validation at various stages.

Formulation of the problem statement related to various applications like Industry / Domain / Societal / Research: The project work starts with formulating the problem statement and clearly defining a problem related to various applications related to industry, societal, or research domains, ensuring the projects relevance and potential impact.

Systematic review with clear expression of existing system, identification of gaps, challenges towards the proposed system: A systematic review meticulously is conducted to clearly evaluate an existing system, in terms of its strengths and limitations. This stage methodically identifies the gaps and challenges, offering a comprehensive understanding of areas of improvement or further research.

Detailing the project work design methodology and highlighting the novelty: The project work methodology is detailed, outlining the chosen route of investigation. This includes a justification for the approach taken, emphasizing its effectiveness in exploring the research objective and highlighting the projects innovative aspects.

Implementation of the project objectives: The project objectives are implemented in a modular fashion, allowing for focused development and easier assessment of each component. This strategy enhances the manageability and adaptability of the project.

Validation of results and outcomes of the projects: Rigorous validation of the projects results and outcomes is carried out to ensure their reliability and relevance. This critical step confirms the projects contributions and significance to the field.

Purposeful presentations followed by project report submission and publication efforts: The research findings are communicated through purposeful presentations, followed by the submission of a detailed project report. This ensures clear dissemination of the projects value and insights. Efforts are made to publish the work, aiming to share the projects contributions with a broader audience. This extends the projects reach and impact, benefiting both the academic community and relevant industries.

E. Process to assess individual and team performance (3)

The Project Review Committee and Project Supervisor assess the individual and team performance by continuous reviews using rubrics and semester end viva-voce examination.

Assessment of Final year student's project work as a Team is done by considering following criteria

- Definition of Problem Statement
- Objectives & Modules
- Inferences from Literature Review, Comparisons between existing and proposed system
- Usefulness & Societal Applications / Industry and Plan of Action
- Content & Relevance, Design & Analysis
- Implementation
- Presentation, End Result
- Documentation, Paper Publications/Patents, Questionnaire.

Assessment of Individual Performance is done based on the following criteria

- Effective communication.
- Appropriateness of response to guides questions.
- Interaction with Guide.
- Level of Understanding the Project.
- Individual Contribution

Fig. 2.2.3.9 shows the individual student assessment of project by supervisor.

Fig. 2.2.3.9 Individual Assessment of Project Work by Supervisor

Projects Demonstration

After the completion of assessment of individual and team performance, Project Expo would be conducted to select the best projects. The following guidelines are followed to conduct the Project Expo:

- Live demo of the models
- Poster presentation is mandatory for easy explanation along with PPTs.
- Block diagram, Specifications, Applications, Advantages, Limitations and Future scope are to be depicted on the poster.
- Section wise venues will be notified.

Fig. 2.2.3.10 Evidence of Circular regarding Project Expo

F. Quality of completed projects/working prototypes (5)

Quality of completed projects assessed by conducting project expos where students can exhibit their Projects and demonstrate them. Students also publish the project work in reputed National and International Conferences and Journals. In the Project Expo, the following criteria is followed to select the best projects as shown in Fig. 2.2.3.11

- Effective communication.
- Explanation of project theme.
- Simulation/Measured Results or Model Demo

- Realtime applicability of project
- Appropriateness of response to Judges questions.

Fig. 2.2.3.11 Evidence for Assessment of Best Project

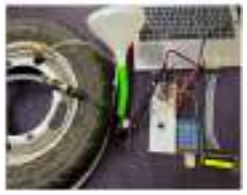
Fig. 2.2.3.12 shows the Best Major Projects Selected from the Project Expo conducted for IV - II B.Tech 19-23 batch in the academic year 2022-23

Fig. 2.2.3.12 Best Project List of 2019-23 batch

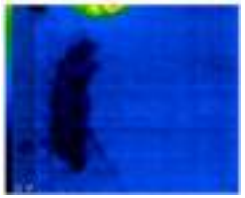
Fig. 2.2.3.13 Prototypes developed in the ECE Department

Table 2.2.3.11 Evidences of Prototypes developed

SN0.	Student name	Guide name	Project title	Image
		AY- 2020-21		
1	Sudagana Nandini (17251A0425) Shaik Najish Jaha (17251A0422) Mukku Bhavana (17251A0449)	Mrs.T.Srilatha	ESP32 Home Automation System with Manual and Voice Control Feedback using IoT	
2	Madupathi Gayathri (17251A0446) Chinmayee G (17251A0436) Ramavath Bindu Madhavi (17251A0418) S Pradeepthi (17251A0426)	Mrs A.Deepthi	ALZOT: An IoT based health care Assistant for Alzhelmer's Patient	

3	Nandu Tejaswini (17251A0473) Vaishnavi Rudraraju (17251A0488) Pogula Meghana Reddy (17251A04A9)	Dr. Renuka Devi S M	The Third Eye - smart cane using raspberry pi	
4	Redapangu Aksa (17251A0479) Sahithi Gudi (17251A04B3) Samhitha Reddy V (17251A04B4) Neha Cemerla (17251A0474)	Mr. Y. Rakesh Kumar	Smart Technology for Mushroom Cultivation using Arduino	
5	Rapolu Harshitha (17251A04E6) Mettupalli Shalini Reddy (17251A04G7) Sayannagari Sony (17251A04E7) R V S Sri Sudha (17251A04H2)	Mrs. M. Madhuri Latha	Indoor Air Quality Monitoring System **(In collaboration with IIIT-H)**	
			AY- 2021-22	
1	Siddi Akshitha (18251A0426) Diksha Naval (18251A0407) Prathyusha Kasam (18251A0414) Y Supraja (17251A04F0)	Mrs. P. Sripadma	Face mask detection using Modified YOLO	https://www.youtube.com/watch?v=xAcONKRH6qQ (https://www.youtube.com/watch?v=xAcONKRH6qQ)
2	Kuchi L S Rasagjna (18251A0444) Poreddy Pranathi (18251A0452)	Mrs. M. Madhurilata	Energy Efficient IoT based Waste Management System **(In collaboration with IIIT-H)**	https://www.youtube.com/watch?v=dYw609EKj_c (https://www.youtube.com/watch?v=dYw609EKj_c)
3	Aneesha Rao (18251A0486) G. Saraswathi (19255A0411) Y.Madhuri (19255A0412) Shriya reddy (18251A04B9)	Mr.B.Sreekanth Reddy	Fuel and Tyre Pressure Monitoring system for Automobiles	
4	Jyothika (18251A0470) Paidiwar Shivani (18251A0468) Y Sharon Priyanka (18251A04C0)	Mr. P. Chandrasekhar	Authentication of Passport Details using RFID Technology	https://www.youtube.com/watch?v=nwcWYaStNSM (https://www.youtube.com/watch?v=nwcWYaStNSM)

	Sreeshma M (18251A04A4)		and fingerprint sensor	
5	Pisupati Sai Valli Shivani (18251A04E1) Mohmad Nadiya begum (19255A0415) Thigireddy Sri Bhavani (18251A04H7) T.Harshitha (18251A04H6)	Mrs.T. Sri Latha	Smart Shoes - Walking Towards a Better Future	https://www.youtube.com/watch?v=uoECaqLpIsw (https://www.youtube.com/watch?v=uoECaqLpIsw)
AY-2022-23				
1	D Bhavana Yadav (19251A0413) Kanuganti Jagruthi (19251A0425) Kaipu Laxmi (19251A0426) Priyanka (19251A0445)	Mr Y. Rakesh Kumar	Animal movement observation using night vision thermal sensor	https://www.youtube.com/watch?v=OCX_9-cHew4 (https://www.youtube.com/watch?v=OCX_9-cHew4)
2	Sai Priya Kamuni (19251A0447) Lekhya Bayya (19251A0433) Lalana Palwaye (19251A0432) Shruthika Keerthi P (19251A0442)	Dr.B.Venkateshulu	Smart Agricultural Security System	https://www.youtube.com/watch?v=Pg-CFeqx8pY (https://www.youtube.com/watch?v=Pg-CFeqx8pY)
3	Baddam Nihalini Reddy (19251A0465) MSN Sowmya Chandana (19251A0492) Thokala Shreya (19251A04B5)	Dr.C.Padmaja	Driver drowsiness monitoring system using visual behaviour and Machine learning	https://www.youtube.com/watch?v=L9ZBsmAmAUg (https://www.youtube.com/watch?v=L9ZBsmAmAUg)
4	Mounika Pamarti (19251A0496) Ameena Juhi (19251A0463) V Meghana (19251A04B7) Tejaswini Gorripotu (19251A0474)	Mrs.K.Swathi	Zigbee Based Wireless Electronic Notice Board	https://www.youtube.com/watch?v=68__MQjgXw0 (https://www.youtube.com/watch?v=68__MQjgXw0)
5	M Charitha (19251A0488) Vemula Siva Shahitha (19251A04C0) Marla Layamadhuri (20255A0412) Dornala Ravisalini (19251A0471)	Dr. Swapna Raghunath	Smart Composting of Domestic Organic Waste	https://www.youtube.com/watch?v=jIQzaD8lSPI (https://www.youtube.com/watch?v=jIQzaD8lSPI)
AY- 2023-24				
1	Aluguri Sri Valli (20251A0401) Maddiveni Sahithi (20251A0422) K Sri Tulasi Gayathri (20251A0442) Kotakonda Bhavana (20251A0419)	Ms. Ch. Anusha	Inventory Management System usig RFID	

2	G Krishna Haneesha (20251A0410) Rapelli Keerthi (20251A0452) Kondoju Jyothsna (20251A0443) Yasarapu Vyshnavi	Dr.B.Venkateshulu	Detection of Quality of Medicinal Leaves	
3	Varsha Kommera (20251A0460) K Sree Kavya (20251A0441) Malasani Sai Joshitha (20251A0423) Risheela Kandunuri (20251A0453)	Ms. M.Lakshmi	IoT surveillance robot with night vision camera	
4	Gangadevi Bhanu Sri (21255A0402) Arushi Sreekumar (20251A0432) Ankam Lakshmi Nikitha (20251A0403) Baddam Shivani (20251A0433)	Dr. Renuka Devi S M	Physical video game	
5	Narri Priyanka (20251A0449)	Mr. Y.Rakesh Kumar	ML based Rat detection using Thermal Sensors	
6	B. Sampreeti (20251A04C2) K. Viraja (20251A04C7) T. Jhansi (20251A04E8) B. Anjali (20251A04F4)	Dr P. Chandra Sekhar	Smart Coffee Vending Machine	

G. Evidences of papers published /Awards received by projects etc. (3)

Completed projects are published in reputed National/International Journals and conferences like Springer, IEEE, peer reviewed. The following documents are the evidences for paper publications by students under the guidance of supervisors from the project works. Table 2.2.3.12 lists the project paper publications. Some of the project papers published in International Conferences.

Table 2.2.3.12 List of Student Paper Publications

S.No	Author names	Name of the Journal	Paper Title	Volume Number, Issue Number, Page Number	Month & year	Link for the paper	Indexing
1	SriPadma Parupalli, Siddi Akshitha, Diksha Naval, Prathyusha Kasam, Suprajareddy Yadagiri	Multimedia Tools and Applications	Performance evaluation of YOLOv2 and modified YOLOv2 using face mask detection	Volume 83, 30167–30180	September 2023	https://doi.org/10.1007/s11042-023-16770-3	Scopus
2	Shanthi Munaganooru,N. Rohini, Sami Unnisa Begum, Pranathi Chikkavarapu,Buduru Prathyusha	International Journal for Research Trends and Innovation	Design and Implementation of an Intelligent Voice Controlled Mobile Robot	Volume 7, Issue 7, Pages 1410-1417	July 2022	https://www.ijrti.org/viewpaperforall?paper=IJRTI2207221	Google Scholar
3	Shanthi Munaganooru, Sanjana Reddy Nellipalli, Pindi Navya Sree, Maddikuntla SaiSri, Shruthika Dopathireddy,	Technix International Journal for Engineering Research	Piloting a Drone Using Hand Gesture Control System	Volume 9, Issue 7, Pages 36-42	July 2022	https://tijer.org/tijer/viewpaperforall.php?paper=TIJER2207007	Google Scholar
4	M.Lakshmi, Srivalli Saranya, Parasagni Srividhya,M Chareeshma, K S Sankeerthana	International Journal of Creative Research Thoughts	Kalman Filter Design for Ballistic Missile Defence Applications	Vol 10, Issue 8	August 2022	https://ijcrt.org/papers/IJCRT2208222.pdf	Google Scholar
5	Ch.Anusha	International Research journal of Engineering and Technology	Implementation of Vehicle Theft Detection and Identification System	Vol 9, Issue 7, 1099 to 1011	July 2022	https://www.irjet.net/archives/V9/i7/IRJET-V9I7192.pdf	Google Scholar
6	Chindam Hari Prasad/Gaddam Chaitanya, Gundala Koustubha, Bandlamudi Sathvika	International Journal of Information systems and Computer Sciences	Agricultural Field Monitoring and Controlling of Drip Irrigation using IoT	Vol.12, Issue 4, pp:17-20	August, 2023	https://www.warse.org/IJISCS/static/pdf/file/ijiscs011242023.pdf (https://www.warse.org/IJISCS/static/pdf/file/ijiscs011242023.pdf)	Google Scholar
7	Sri Vaishnavi, M. Hasmitha, M. Bhavana, Satyanarayana Goud.P	International Journal of Advances in Engineering and Management	Fingerprint based voting system using Arduino Nano	Vol.5, Issue.5, pp. 152-156	May, 2023	https://ijaem.net/issue_dcp/Fingerprint%20Based%20Voting%20System%20Using%20Arduino%20Nano.pdf (https://ijaem.net/issue_dcp/Fingerprint%20Based%20Voting%20System%20Using%20Arduino%20Nano.pdf)	Google Scholar
8	V.Radha krishna,V.S.Sharma,M.N.Charishma ,G.Sreeja	International Journal for research in Applied Science and Engineering Technology	IOT Based Smart Shopping cart using RF ID	Vol:11, Issue: IV, Pg: 3767-3773	June, 2023	https://www.ijraset.com/best-journal/-iot-based-smart-shopping-cart-using-rfid (https://www.ijraset.com/best-journal/-iot-based-smart-shopping-cart-using-rfid)	Google Scholar

9	Dr. C. Padmaja, B. Nihalini Reddy, M. Chandana, T. Shreya	International Journal of Information Systems and Computer Sciences	AI-Powered Road Safety: Detecting Driver Fatigue through Visual Cues	Volume 12, No.4, July - August 2023	August, 2023	http://warse.org/IJISCS/static/pdf/file/ijiscs011232023.pdf (http://warse.org/IJISCS/static/pdf/file/ijiscs011232023.pdf)	Google Scholar
10	Dr. M. Vijayalakshmi , Meghana Balu, Pavani Chowla , Pragna Sri Middela , Harshini Bestha	International Journal of Information Technology Infrastructure	Design and Development of a Solar-Powered Vacuum and Wet Cleaning Robot using Arduino UNO	Volume 12, No.3, pg 1 to 4	June, 2023	http://www.warse.org/IJITI/static/pdf/file/ijiti011232023.pdf (http://www.warse.org/IJITI/static/pdf/file/ijiti011232023.pdf)	Google Scholar
11	G. Niharika, N. Sathanya, Rahena, T. Akshitha, P.Madhuri	International Journal of Advances & Management	Vehicle Congestion Controller & Penalty System	Vol 5 Issue 5, pp: 292-295	May, 2023	https://ijaem.net/issue_dcp/Vehicles%20Congestion%20Controller%20and%20Penalty%20System.pdf (https://ijaem.net/issue_dcp/Vehicles%20Congestion%20Controller%20and%20Penalty%20System.pdf)	Google Scholar
12	Mrs.P.Sripadma, Gujarathi Shalini, Lade Hrushitha, Akoju Srinidhi, Sai Sathvika Daravath	International Journal of research trends and innovation	Fingerprint vehicle starter using Arduino	vol 8 issue 5, pages 709-714	May, 2023	https://www.ijrti.org/viewpaperforall?paper=IJRTI2305112 (https://www.ijrti.org/viewpaperforall?paper=IJRTI2305112)	Google Scholar
13	Y.Rakesh kumar, M.Vani, N.Usha Kiran Sk.Rukhsana	Journal of Emerging Technologies and Innovative Research	IOT based underground cable fault detection	Vol.10, Issue 5, page no.f102-f105,	May, 2023	https://www.jetir.org/view?paper=JETIR2305517 (https://www.jetir.org/view?paper=JETIR2305517)	Google Scholar
14	K. Swathi,Ameena Juhi,Mounika Pamarti,V. Meghana,G. Tejaswini	International journal of Creative Research Thoughts	IoT based Wireless Electronic Noticeboard	Vol 11 Issue 4, 595 to 599	April, 2023	https://ijcrt.org/papers/IJCRT23A4122.pdf (https://ijcrt.org/papers/IJCRT23A4122.pdf)	Google Scholar
15	Dr. Renuka Devi S M, S.Keerthana, B.Akhila, G. Meghana, & K. Meghana.	International Journal of Innovative Science and Research Technology	Fault Identification in Solar PV Panels Using Thermal Image Processing Technique.	volume -8, Issue-4, Pg 3300–3303.	April, 2023	https://ijisrt.com/fault-identification-in-solar-pv-panels-usingthermal-image-processing-technique (https://ijisrt.com/fault-identification-in-solar-pv-panels-usingthermal-image-processing-technique)	google Scholar
16	Prof.Ch. Ganapathi Reddy 1, G. Swathi 2, B. Prathyusha 3, K. Hema Chandana 4, Shaima	International Journal of Emerging Trends in Engineering Research	The Future of Health Care is Connected	Vol 11,11,Page no 363	November, 2023	http://www.warse.org/IJETER/static/pdf/file/ijeter0711112023.pdf (http://www.warse.org/IJETER/static/pdf/file/ijeter0711112023.pdf)	Google Scholar
17	Sneha Medhavath, Madhurya Modium, Pallavi Pasula, Deeksha Begari, Anusha Chilupuri	International Journal of Engineering Applied Sciences and Technology	Face Recognition based Attendance System using ESP 32cam	Vol. 7, Issue 12, page no: 132-136	April, 2023	https://www.ijeast.com/papers/132-136,%20Tesma0712,IJEAST.pdf (https://www.ijeast.com/papers/132-136,%20Tesma0712,IJEAST.pdf)	Google Scholar

18	Swapna Raghunath, Charitha Madhagowni, Marla Laya Madhuri, Vemula Siva Shahitha, Dornala Ravishalini	Journal of Emerging Technologies and Innovative Research	Smart Compost Bin For Domestic waste	Vol.10, No. 4, pp 585-590	April, 2023	https://www.jetir.org/view?paper=JETIR2304C77 (https://www.jetir.org/view?paper=JETIR2304C77)	Google Scholar
19	G.Krishna Kishore, J.Swethlana, K.Aarthi Reddy, P.Soumya	International Journal of Advances in Engineering and Management (IJAEM)	Fingerprint Based Security Locker System	Vol 5 issue 6, pp 933-936	June, 2023	https://ijaem.net/issue_dcp/Fingerprint%20Based%20Security%20Locker%20System.pdf (https://ijaem.net/issue_dcp/Fingerprint%20Based%20Security%20Locker%20System.pdf)	Google Scholar
20	Mugala Naveena, Gouda Neeraja, G Niharika, Kuteddula Lahari, B. Tulasi Sowjanya	International Journal of Advances in Engineering and Management (IJAEM)	Smart Helmet for Tracking Coal Miners	Vol 5, Issue 4, Pp 1713-1718	April, 2023	https://ijaem.net/issue_dcp/Smart%20Helmet%20for%20Tracking%20Coal%20Miners.pdf (https://ijaem.net/issue_dcp/Smart%20Helmet%20for%20Tracking%20Coal%20Miners.pdf)	Google Scholar
21	Munaganooru Shanthi, Returi Nehata Sreeya,Potukuchi Ajita	International Journal of Emerging Trends in Engineering Research	Implementation of High-Speed Serial I/O using Xilinx Tools in FPGA	Volume 11. No.8, pg 256 to 258	August, 2023	https://www.warse.org/IJETER/static/pdf/file/ijeter021182023.pdf (https://www.warse.org/IJETER/static/pdf/file/ijeter021182023.pdf)	Google Scholar
22	N.krishna Jyothi,Thurlapati Haini,Arava Vedhabhishiktha,Abarrane Emmanual	International Journal for research in Applied Science and Engineering Technology	Gain Enhancement of Microstrip patch Antenna for Wi-Fi Augmentation	Volume 11,Issue VI PP 3760-3766	June 2023	https://doi.org/10.22214/ijraset.2023.54190 (https://doi.org/10.22214/ijraset.2023.54190)	Google Scholar
23	P.Roopa Ranjani,M.Jahnavi,K,mahimasri,S.Sneha	International Journal of Advanced Research in Computer and Communication Engineering	Glaucoma Detection in Retinal Image	Volume 12,Issue 5 PP 539-543	May 2023	https://doi.org/10.17148/IJARCCE.2023.12589 (https://doi.org/10.17148/IJARCCE.2023.12589)	Google Scholar
24	N.Harini,B.Geeta Vani,C.Kiranmai,K.Hemavathi,S.Shayastha	International Journal of Novel Research and Development	Sign Language to Text and Speech Conversion Using Image Processing and Machine Learning	Volume 8,issue 4 PP e55-e59	April 2023	http://doi.one/10.1729/Journal.34152 (http://doi.one/10.1729/Journal.34152)	Google Scholar
25	G.Madhavi, K.Priyanka, B.rashamsha, ganta srivani, J. Yashaswini	Juni Khyat	Smart Safety Band	Volume 13,issue, PP: 176-182	May 2023	http://junikhyatjournal.in/no_1_Online_23/24.2_may.pdf (http://junikhyatjournal.in/no_1_Online_23/24.2_may.pdf)	UGC care group I
26	C. Sridhar Babu, Uttara Nanduri, G. Deepshika, Sai sunidhi pabba	International Journal of Novel Research and Development	Door Lock System using Face Authentication and Arduino UNO	Volume 8,issue 4 PP C762-C765	April 2023	https://www.ijnrd.org/viewpaperforall?paper=IJNRD2304296 (https://www.ijnrd.org/viewpaperforall?paper=IJNRD2304296)	Google Scholar

27	Dr G Srivalli, S Sathwika, N Pooja, K Preethi Lilly	Quest Journal of Electronics and Communication Engineering Research	Some studies on Shielding Effectiveness for Oblique EM waves incidence on Dual Shields	Volume 9 Issue 5 PP2321-5941	May 2023	https://doi.org/10.5281/zenodo.7938281 (https://doi.org/10.5281/zenodo.7938281)	Google Scholar
28	V. Uma, Varshini Boorla, Likhitha Bonala, Mohammed Sana, Vennamaneni Shrestha	International Journal for Research in Applied Science and Engineering Technology	Breast Cancer Detection Using Support Vector Machine Algorithm	Volume 11 Issue 6 PP 3691-3698	June 2023	https://doi.org/10.22214/ijraset.2023.54188 (https://doi.org/10.22214/ijraset.2023.54188)	Google Scholar
29	Dr. K. Ragini, Spoorthi G Kunch, B. Sathvika, K. Swathi, G. Prashanthi	International Journal for Research in Applied Science and Engineering Technology	Artificial Neural Network Based Integrated Ambulance System	Volume 11 Issue 6 PP 3673-3678	June 2023	https://doi.org/10.22214/ijraset.2023.54184 (https://doi.org/10.22214/ijraset.2023.54184)	Google Scholar
30	V. Shankar, Telugu Hemalatha, Katkoori Preethi, S Sushma, K Manusha	International Journal for Research in Applied Science and Engineering Technology	Prediction of COVID-19 Severity by Applying Machine Learning Techniques	Volume 11 Issue 6 PP 3772-3780	June 2023	https://doi.org/10.22214/ijraset.2023.54193 (https://doi.org/10.22214/ijraset.2023.54193)	Google Scholar
31	B. Sreekanth Reddy , Spoorthi Tummalapalli, Anusha Juluri, Amrutha Regalla, Yashashwini Chenamalla	International Journal for Research in Applied Science and Engineering Technology	Authorized Automatic Vehicle Allowance System	Volume 11 Issue 6 PP 3744-3751	June 2023	https://doi.org/10.22214/ijraset.2023.54186 (https://doi.org/10.22214/ijraset.2023.54186)	Google Scholar
32	Dr.B.Venkateshulu, Sai Priya Kamuni, Lekhya Bayya, Lalana Palwaye, Shruthika Keerthi P	Juni Khyat	Smart Agricultural Security System	Vol-13, Issue-05 No. 2 PP 170-175	May 2023	http://doi.org/10.36893/JK.2023.V13I05N02.170-175 (http://doi.org/10.36893/JK.2023.V13I05N02.170-175)	Google Scholar
33	K.Swathi, Mahitha Tenneti, Jillela Shruthi, Chinnala Anusha, Palwai Shloka	International Journal Of Creative Research Thoughts	Smart library management system	Volume 11, Issue 4, PP i82-i86	April 2023	http://doi.one/10.1729/Journal.34358 (http://doi.one/10.1729/Journal.34358)	Google Scholar
34	M. Amulya , G.Jyosthna Preethi , K.Keerthimayee , A.Reshmitha , B.Tulasi Sowjanya	International Journal Of Novel Research And Development	Vehicle Safety and Accident Detection using IoT	Volume 8 Issue 4, PP 537-542	April 2023	http://doi.one/10.1729/Journal.34188 (http://doi.one/10.1729/Journal.34188)	Google Scholar
35	Y. Rakesh Kumar, Donthula Bhavana Yadav, K. Jagruthi, K. Laxmi, Priyanka	International Journal of Advances in Computer Science and Technology	Night vision thermal sensor based animal movement observation using CNN and YOLO v3	Vol 12, Issue 6, PP 50-56	June 2023	https://doi.org/10.30534/ijacst/2023/011262023 (https://doi.org/10.30534/ijacst/2023/011262023)	Google Scholar

36	G.V.N.S.K. Sravya, T. Sucharitha, N. Pavithra, K. Nikhitha and V. Sathvika	International Journal Of Novel Research And Development	Automatic LPG Cylinder Booking and Leakage Detection using IOT	Volume 8 Issue 4, PP 2456-4184	April 2023	https://www.ijnrd.org/viewpaperforall?paper=IJNRD2304254 (https://www.ijnrd.org/viewpaperforall?paper=IJNRD2304254)	Google Scholar
37	Dr. C. Padmaja, Pranathi M, Pavani T, Jagruthi P, Likhita Reddy V	Proceedings of 3rd International Conference on Recent Trends in Engineering Technology and Management	Machine Learning Based Analysis on Behavioural Difference Between Depression and Anxiety	Conference paper	May 2023	-	
38	T.Srilatha,N.L.Chaitra,Shaik Reehana,M.Shravani	International Journal of Novel Research and Development	Smart Cradle System using IoT	Vol.8, Issue 6,pp:a602-a606	June 2023	https://www.ijnrd.org/papers/IJNRD2306070.pdf	Google Scholar
39	Y.Prakash, G.Saraoja,N.Niharika,P.Disha,K.Pavitra	International Journal of Advanced Research in Science, Communication and Technology	Automatic Madication Dispenser	Volume-3 Issue 5pp: 141-pp144	May 2023	Doi:10.48175/ijarscr-10024	Google Scholar
40	N.Harini,D.Neha,T.Sabitha,V.Pavitra,P.Vasavi sai Suma	International Journal of Advanced Research in Science, Communication and Technology	Voice Controlled WheelChair	Volume 3,Issue 5,403-407	May 2023	Doi:10.48175/IJARSCT-10060	Google Scholar
41	P.Madhuri, P. Harsha Veena, K. Amrutha, T. Meghana, D. Aishwarya	International Journal of Novel Research & Development	Surveillance & Fire Fighting Robot	Volume 8, Issue 4	April 2023	https://www.ijnrd.org/papers/IJNRD2306070.pdf	Google Scholar
42	B. Kundana, B. Meghana, S. Upasana, S. Vaishnavi, P. Satyanarayana Goud	International Journal of Novel Research and Development	Analysis of ECG signals using Machine Learning techniques	Vol.8, Issue. 5	May 2023	https://www.ijnrd.org/papers/IJNRD2305551.pdf (https://www.ijnrd.org/papers/IJNRD2305551.pdf)	Google Scholar

Fig. 2.2.3.14 Evidence of Paper Publication in an International Conference

Awards Received by Students

Students projects got awarded in various Hackathons Amaravati, Maharastra, NASA Space Challenges in Chandigarh University, Anveshana. Detailed information of Awards received by students given below:

- Thanusha Mekha (Roll No. 20251A0477), Nooka Pallavi (Roll No. 20251A0480), and Hema Sreyalahari Karanam (Roll No. 20251A0466) secured II prize in **Research Expo, WLC'24** on the title Robotic Tens Therapy for Personalized and Interactive Pain Management System on march 06-07, 2024 organized by GNITS under the guidance of Y. Rakesh Kumar, Assistant Professor.

- Sneha Sri (Roll No. 20251A0495), Ramasamy Swathi (Roll No. 20251A04B4), Reddy Swathi (Roll No. 20251A04B5), and Meghana (Roll No. 20251A04B7) secured first prize in Code Infinity, a national level 24- hour Hackathon on march 01-02, 2024, organized by the **Department of ECE, MRCET** on the title Smart security companion for women under the guidance of P. Roopa Ranjani, Assistant Professor.

- Prasanna T.V.L (https://in.linkedin.com/in/prasanna-t-v-l-2730b6227?trk=public_post-text) (Roll No. 21251A0493), and Satvika Itikala (https://in.linkedin.com/in/satvika-itikala-b15513273?trk=public_post-text) (Roll No. 21251A04B1) secured 5th prize at three-day event from February 28th to March 1st, **Anveshana 2024** with their innovative project, "Cognizen Mat." Guided by Assistant Professor Sreekanth Bodeddula (https://in.linkedin.com/in/sreekanth-bodeddula-710a4611?trk=public_post-text).

- Thanniru Jyothi Nasa (Roll No. 21251a0461), Kadali Lakshmi Pranathi (Roll No. 21251a0441), Duggireddy Niharika Reddy (Roll No. 21251A0437) participated in International Space Apps Challenge hackathon in **Chandigarh University** in October 2023 and won Gold Medal.

S. Nasira Banu (Roll No. 21251A04F4), Lakshita Chouhan (Roll No. 21251A04J0) participated in Smart India Hackathon2023 at **AICTE, Amaravati, Maharastra** on 19-12-2023 and 20-12-2023 and won Second prize

- Pranati Tanteavahi (Roll No. 19251A0451), Alekhya Pathak (Roll No. 19251A0403), K. Hoyasala Devi (Roll No. 19251A0422), and Rucha Dhodapkar (Roll No. 19251A04G6) received a recognition of their participation as a finalist (Top 10) in the **TiE Grad Business Idea Tournament Grand finale** for title IoT based noise pollution awareness system conducted by **TiE Hyderabad fostering entrepreneurship** held on 05/04/2023.

- Gopu Sathwika (Roll No. 22251A04H1), Lavanga Devi (Roll No. 21251A0415), AABHA RATANSINGH DIXIT (22251A0465) participated in **GreenBiz Hackathon23 at GNITS**, Hyderabad on 25-11-2023 and 26-11-2023 and won Gold Medal.
- B.Shravani (Roll No. 20251A0434), G.Jayanthi (Roll No. 20251A0409), K.Nandhini (20881A0496), T.Vaishnavi (20251A0458) participated in Mini Project Expo conducted by **GNITS,Hyderabad** on 4/11/2023and got first prize.
- Nooka Pallavi (Roll No. 20251A0480), Hema Sreya (Roll No. 20251A0466), and Meka Tanusha (Roll No. 20251A0477) won a special price with cash Rs. 10,000 at Hackathon organized by **Mistral Solutions, hosted by Bangalore institute of technology** on 30/06/2023.

- Shravani (Roll No. 20251A0434) and N. Rashmitha (Roll No. 20251A04G4) secured first prize with the title outputting Mars Habitat using 3D printing conducted by **SUMVN, NASA space Apps, India, Chandigarh University** on 02/10/2022.

- TVL Prasanna (Roll No. 2125A0493), I Satvika (Roll No. 2125A04B1), N Umasree (Roll No. 2125A04C0), and S Srichetan (Roll No. 2125A04C7) won III prize along with a cash prize of Rs. 10,000/- with the title Road Guard in the finale of **Telangana Got Tech Talent Hackathon conducted by JNTU Hyderabad in association with an industry partner Blackbuck Engineers** on 19/04/2023.

- P Sonali (Roll No. 20251A04B1) presented Poster Presentation on E Waste Management in **Electroblitz's EEE Dept., GNITS** on 19-04-2023 and got 2nd Place.
- M Chaitanya (Roll No. 19251A04E8), Pranati Tanteavahi (Roll No. 19251A0451), Alekhya Pathak (Roll No. 19251A0403), and Rucha Dhodapkar (Roll No. 19251A04G6) participated in **Project Expo Ignium 2K22, GNITS** on 26-11-2022 and won I, II, II, and II Prizes respectively.
- S Meghana Reddy (Roll No. 21251A04C5), N Umasree (Roll No. 21251A04C0) presented a paper on Floods and Water Related Disaster and Management in **5th Pure Earth Environmental Conference (Pure Earth Foundation)** on 26-11-2022 and awarded as Best Research Paper Award.
- T Spoorthi Reddy (Roll No. 19251A0455) participated in **Hackathon - Code for Good 2021** on 6/19/2021 and secured 1st Prize.
- V.Shiva shahitha (Roll No. 19251A04C0), P.Harsha Veena (Roll No. 19251A04F9), and G.Ashlesha (Roll No. 19251A04D2) participated in **Code Debugging conducted by IETE at GNITS** on 10/30/2021 and secured 1st, 2nd, and 3rd Prizes respectively.
- A.Sowmya (Roll No. 192514A04C1), G.Sravya (Roll No. 192514A04D3), K.P.Pavani (Roll No. 19251A1731), A.Lalitha (Roll No. 19251A1704), and M.Sharanya (Roll No. 19251A1743) presented a paper conducted by **IETE at GNITS** on 12/18/2021 and secured 1st Prize.

Patents from Students Projects

Patenting student projects is a valuable way to protect and commercialize innovative ideas and inventions. By understanding the basics of patents and following the patent application process, students can ensure that their creations receive the recognition and protection they deserve, while also contributing to the advancement of technology and innovation. Table 2.2.3.13 shows list of patents granted/published.

Table 2.2.3.13 List of Patents Granted/Published

S. No	Application Title	Faculty & Student Inventors	Date of publication	Application Number
1	RFID Enabled Smart Trash Can with Waste Segregation Mechanism for Sustainable Waste Management	**Faculty:** Dr. C. Padmaja **Student:** Ms. B. Shravani	22/12/2023	202341078592
2	Device And Method for Determining Quality And Flow Control Of Water	**Faculty:** Dr. B.Venkateshulu Mr. B.Rakesh Goud Dr. Renuka Devi S M **Student:** Ms. A. Sai Naga Rekha Ms. CH. Harika Ms. G. Vedika Ms. K. Akshitha Ms. I. Sahitya	06/12/2023	201941047644 A **(Granted)**
3	Design of High-Speed Approximate Redundant Binary Multiplier Using 4:2,5:2 &7:2 Compressor	**Faculty:** Dr. K. Ragini Dr. Swapna Raghunath **Student:** Ms. Sunkara Yuha Sridevi	05/08/2021	202141035313
4	The THIRD EYE	**Faculty**: Dr. B. Venkateshulu, Dr. Renuka Devi S M Mrs. T. Srilatha **Student:** Ms. Vaishnavi Rudraraju Ms. Nandu Tejaswini Ms. Meghana Pogula	26/03/2021	202141010185 A
5	Non Invasive glucose sensing system for diabetes monitoring using saliva	**Faculty:** Dr. B. Venkateshulu Mr. P. Chandrasekhar Mr. B Rakesh Goud **Student:** Ms. Swathi Pratap, Ms. Niharika Chikkulla Ms. Pravarsha Mogili Ms. Kushi Thota	04/09/2020	202041035562 A

2.2.4 Initiatives related to industry interaction (10)

Institute Marks : 10.00

2.2.4 Initiatives Related to Industry-Institute Interaction

A. Industry supported laboratories (2)

B. Industry involvement in the program design and Curriculum. (3)

C. Industry involvement in partial delivery of any regular courses for students (3)

D. Impact analysis of industry institute interaction and actions taken thereof (2)

A. Industry Supported Laboratories (2)

ECE Department has MoUs with Industries to conduct collaborative activities for the students and faculty members to enhance their skills and knowledge. This helps students and faculty members to do projects and consultancy works. The industry experts help in doing consultancy work. They also conduct Seminars/Guest Lectures to enhance the technical knowledge of Students and Faculty members bridge the gap between Industry and Academics. Table 2.2.4.1 shows the industry collaboration with Laboratories.

5 Laboratories in ECE Department are attached with Industries by Memorandums of Understanding (MoUs)

i. Jagadish Chandra Bose Research Centre (Approved by JNTUH)
ii. Centre of Excellence (CoE) for Antenna Radiation Pattern Analysis
iii. CoE for Signal Processing and Machine Learning (CSPML)
iv. CoE for Internet of Things (IoT)
v. ECAD & VLSI Lab

Table 2.2.4.1 Industry Collaboration with Laboratories

S.No	Name of Research centre / CoE	Collaborating Industry	Objectives of the MoU with Collaborating Industry	Date of MoU	Validity Period
1	Jagadish Chandra Bose Research Centre (Approved by JNTUH)	SmartBridge Educational Services Pvt. Ltd, Gachibowli, Hyderabad	1. To gain employment skills through externship programs 2. To help students comprehend technology and apply it to real word use cases 3. To provide hands on project exercises to learn & apply through guided projects 4. To upskill the students through emerging technologies through Challenges/Project Build-a-Thons	08-01-2024	1 year
2	CoE for Antenna Radiation pattern Analysis	Navstar Integrated Systems Pvt. Ltd, Balanagar, Hyderabad,	1. To Engage in consultancy work for specific scope of services and product development. 2. Project and product development activity for faculty,4th year UG and PG students of ECE branch in areas like Microwave Antennas and Satellite Navigation Systems	02-11-2018	3 years
				12-05-2023	3 yeras
3	CoE for Signal Processing and Machine Learning (CSPML)	PVR Tech Hub, Dundigal, Hyderabad,	1. To conduct joint /collaborative research, in areas of Embedded Systems, IOT, Robotics and prototype development and validation of both Hardware /Software, Artificial Intelligence, Machine Learning, Deep Learning, Cyber Security, Code Computing developed at GNITS as part of research work 2. To setup a Centre of Excellence for ECE department in either of technologies that include Artificial Intelligence, Machine Learning, Deep Learning, Cyber Security, Code Computing etc 3. To collaboratively share and exchange information of National level projects and knowledge enhancement 4. To increase the relevance of academic research and product development initiatives 5. To facilitate interactions among industry experts, students and faculty members 6. To increase the relevance of academic research and product development initiative 7. To facilitate interactions among industry experts, students and faculty members	05-11-2022	3 years
4	CoE for IoT	Syncor Solutions Pvt.Ltd, Gachibowli, Hyderabad	1. To Conduct joint/collaborative research in areas of 5G-IOT technology specially determining the precise location/tracking 2. Jointly conducting Validation of Hardware /Software being developed at GNITS as part of research work 3. Arrange guest lectures from industry 4. To Facilitate interactions among experts, students and faculty members	30-09-2022	3 years
5	ECAD & VLSI Lab	Maven Silicon Softech PVT. Ltd, Bangalore	1. To educate trainee/ students in the field of Semiconductors [including VLSI design] and to gain practical knowledge by utilizing the services made available only for the online/Blended/Virtual learning Process 2. To provide practical/internship training for students and staff for selected course 3. To conduct webinars/workshops to bring the awareness of the VLSI programs 4. To conduct FDPs for eligible staff members	05-10-2023	3 years

List of Equipment Available in Labs Related to Industry

State of the art Hardware and software used in industries are available in Centre of Excellences are [CoE] listed in Table 2.2.4.2.

Table 2.2.4.2 Hardware & Software available in Centre of Excellences

CoE	S.No	Name of the Equipment	Significance/ Utility features	No. of Items
ARPA	1	SDR MIMO 2x2 NI USRI-2944	USRP-294430MHz–6GHz 160 MHz. The USRP product line offers a wide breadth of SDRs ranging from lower-cost options with fixed FPGA personalities to high-end radios with large, open FPGAs and up to 160 MHz of instantaneous bandwidth.	1
	2	MIMO KIT (2X2) with NI lab View 2015 SPI Version	USRP-292050MHz–2.2GHz 20 MHz. NI USRP devices are software defined radios (SDRs) that combine host-based processors, FPGAs, and RF front ends to help you rapidly design, prototype, and deploy wireless systems.	1
	3	Vector Network Analyzer (S820E-0714)1MHz-14GHz	To make students/faculty to apply concepts studied in Antenna & Wave propagation.	1

	4	Ansys High Frequency Simulation Software (HFSS) 17.2 Version	This software tool is used in the field of designing Microwave ranges for the Antennas, Microwave transitions, RF Filters, Three Dimensional Discontinuities and Passive Circuit Elements	25 Users
	5	MATLAB	2023 b version is available to perform the simulations	Campus Wise
	6	Desktops	-	4
	7	Server	-	1
SPML	1	Zoom H4N Handy Portable Digital Recorder, Fingerprint Recognition and Logitech webcam, Thermal cameras.	-	1
	2	Zed Zynq 7000-ARM/FPGA SOC development board	-	2
IOT	1	• IoT KITS: • MSP430G2553 Development Kit, • MSP430FR6989 Development Kit, • CC110L Booster Pack, • Educational Booster Pack MKII, • C2000 Delfino • MCUs F28377S Launch Pad Development Kit, • Motor Drive BoosterPack featuring DRV8301 and NexFET MOSFETs, • C2000 LED Booster Pack, • Sensor Hub Booster Pack, • SimpleLink MSP432P401R Development Kit, SimpleLink Wi-Fi • CC3100 Booster pack, • Grove starter Kit for launch pad, • Simple Link Wi-Fi CC3200 Launchpad, • CC2650 Sensor Tag • TM4C129E Crypto Connected IoT Gateway Launch Pad, • Fuel Tank MKII Battery Booster Pack Plug-In Module, • Thermocouple Booster pack ADS1118	This CoE In IoT houses a range of Texas Instruments LaunchPad kits featuring analog and digital sensors, along with ARM Cortex M0 to ARM Cortex M4 processor cores. These comprehensive kits facilitate the development of a wide spectrum of applications, spanning from straightforward educational projects to sophisticated industrial solutions. They offer versatility in accommodating different analog and digital sensors, enabling the creation of diverse projects suited for educational purposes as well as high-end industrial applications.	36

Fig 2.2.4.1 shows the CEO of M/s. Brane Enterprises Pvt. Ltd. interacting with students in Jagadish Chandra Bose Research Centre. Fig. 2.2.4.2 shows students working on High Frequency Simulation Software (HFSS) for Microstrip Patch Antenna Design. Fig.2.4.4.3. shows Microstrip Patch Antenna prototypes designed by ECE students. Fig. 2.2.4.4. shows Texas Instruments Hardware in CoE IOT and Fig. 2.2.4.5 shows Students working in CoE IOT.

Fig. 2.2.4.1. CEO of M/s. Brane Enterprises Pvt. Ltd. interacting with ECE students in Jagadish Chandra Bose Research Centre

Fig. 2.2.4.2. Students working on HFSS

Fig. 2.2.4.3. Prototype models done by students

Fig. 2.2.4.4. Hardware in CoE IoT

Fig. 2.2.4.5. Working of Students in CoE IoT

B. Industry Involvement in Program Design and Curriculum (3)

Department involves experts from Industry & Alumnae in Curriculum Design for B.Tech ECE Program by appointing Industry experts as Board of Studies (BoS) members so that the syllabus is framed according to the Industrial needs and requirements of Society. Table 2.2.4.3 shows the list of industrial nominated members in Board of Studies to finalize the syllabus for curriculum. Fig. 2.2.4.6. List of BOS members on 24-09-2022 consisting of suggestions for syllabus modification.

Table 2.2.4.3 List of industrial experts in Board of Studies [BOS]

Academic Year	S.No	BOS Member with designation	Industry	Date of meeting
2017-2018	1	Mr G.Uma Maheswar, Solution Architect,	TCS Hyderabad, Telangana	10-05-2018
	2	Ms.Katta Abhinaya, Design Engineer – 2	Xilinx Pvt, Ltd, Hyderabad, Telangana.	
2018-2019	1	Mr G.Uma Maheswar, Solution Architect,	TCS Hyderabad, Telangana	30-03-2019
	2	Ms.Katta Abhinaya, Design Engineer – 2	Xilinx Pvt, Ltd, Hyderabad, Telangana.	

2022-2023	1	Dr C. Praveen Chandra, Director,	Navstar Integrated Systems Pvt. Ltd, Hyderabad, Telangana	24-09-2022
	2	Ms.Katta Abhinaya, Design Engineer – 2	Xilinx Pvt, Ltd, Hyderabad, Telangana.	
2023-2024	1	Dr C. Praveen Chandra, Director,	Navstar Integrated Systems Pvt. Ltd, Hyderabad, Telangana	26-07-2023
	2	Mrs. M. Neelima Kumari, Design Engineer-2	Microchip Technology, Hyderabad, Telangana	

Fig. 2.2.4.6. List of BOS members on 24-09-2022 consisting of suggestions for syllabus modification

Courses Included in Curriculum by the suggestions from Industry Members in BoS

During BOS meeting on 24-09-2022, according to the suggestion from Dr C. Praveen Chandra, Director, Navstar Integrated Systems Pvt. Ltd, Hyderabad, Telangana, Courses “Satellite Communication” and “System Engineering” were included in

IV-year Sem II of R22 revised Curriculum.

C. Industry involvement in partial delivery of any regular courses for students (3)

ECE department has IETE & IEEE Technical Association that conducts plenty of activities to enhance the technical skills & knowledge of students and faculty. Guest Lectures/Seminars are conducted for very semester of each Academic Year regularly by keeping academic curriculum in mind. Table 2.2.4.4 shows the Guest Lectures/Seminars conducted with Industrial experts under IETE & IEEE Association in Department. These are related to subjects/labs of academic curriculum. This improves the knowledge of the students in the subjects related title of Guest Lecture/Seminar/Webinars.

Table 2.2.4.4 Guest Lectures/ Seminars/Webinars conducted

Academic Year	S.No	Title	Number of Participants	Date	Industry Name	Resource Person Name	Course Related in Syllabus
2021-2022	1	Code debugging activity	30-10-2021	24	JPMorgan Chase & CO, Hyderabad, Telangana	Miss N.Yamini, Full Time Analyst	Python Programming
	2	Seminar on IOT & Robotics	21-03-2022	173	IIIT, Hyderabad, Telangana	Dr Sachin Chowdary & Dr K.Hari Kumar	IOT
	3	Ramp on AI works	25-04-22 to 26/4/22	16	MathWorks, Kolkata	Mr A.Ramana, Senior Engineer	Artificial Intelligence
2022-2023	1	Seminar on Engineering applications with Embedded Systems	09-02-2023	208	PVR Tech HUB, Hyderabad, Telangana	Mr Prem Kumar	IOT
2023-2024	1	Current trends in Verifying Complex Chips	19-08-2023	156	MOS Chip Semi Conductors, Hyderabad, Telangana	Mrs V.Pratyusha Lead ASIC Verification engineer	VLSI Design
	2	Trends driven by Digital Super Powers	19-10-2023	60	Tata Consultancy services, Hyderabad	Mr P.Bala Prasad, Chief Innovation Officer & Global Head	Digital Electronics & Logic Design
	3	Drone Technology in Architecture Educatio-n	04-11-2023	50	Drone Academy, Hyderabad, Telangana	Mr Sumit Krishna, DGCA- Certified Remotely Piloted Aircraft Instructor, India Drone Academy, Hyderabad, Telangana	Internet of Things
	4	Seminar AI for Engineeri-ng Applications	22-11-2023	53	MathWorks, Kalkatha, West Bengal	Dr Monalisa Pal, Senior education Engineer	Artificial Intelligence
	5	Innovate using Emerging Technolo-gies	22-08-23	133	MathWorks, Kolkata, West Bengal	Mr A.Ramana , Senior Engineer	Artificial Intelligence

Figs. from 2.2.4.7. to 2.2.4.9. show the pictures relating to Seminars/Guest lectures from industrial experts from 2021 to 2024. Fig.2.2.4.10 shows feedback of students on current trends in verifying complex chips seminar

Fig. 2.2.4.7. Seminar on IOT & Robotics 2021-2022

Fig. 2.2.4.8. Seminar Current trends in Verifying Complex Chips during 2023-2024

Fig. 2.2.4.9. Seminar AI for Engineering Applications during 2023-2024


Narayanamma Institute of Technology & Science

IETE Student Forum (ISF)

(Attendance and Feedback Form Sheet)

Fig. 2.2.4.10. Feedback of students on current trends in verifying complex chips seminar

I.The rating on an average for organization of event is 4.5.

II.The rating for Theme of the event is 4.9.

III.The rating for Benefit of the event in carrier is 4.77

IV. The rating of the speaker is 4.88 on maximum scale of 5.

It is going to be further improved for future events by better plaining.

D. Impact analysis of industry institute interaction and actions taken thereof (2)

Industrial Visits

Industrial visits provide the real experience regarding the Environment, Working Style, Work Culture etc. to students. The experts in the industries explains about how to use and work with different systems and tools during Product Design, Development, Testing etc. Table 2.2.4.5 shows the list of Industrial Visits organized by ECE department for students.

Table 2.2.4.5 List of Industrial Visits

Academic Year	S.No	Name of Industry Visited	Date	Number of students
2021-2022	1	Kwality Photonics, Hyderabad, Telangana	05-01-2022 & 06-01-2022	205
2022-2023	1	NRSC-Jeedimetla, Hyderabad, Telangana	29-03-2023	106
	2	ATC AAI- Shamshabad, Hyderabad, Telangana	18-03-2023 & 27-03-2023	96
	3	Kwality Photonics, Hyderabad, Telangana	20-4-2023	169
2023-2024	1	Kwality Photonics, Hyderabad, Telangana	13-12-2023 & 20-12-2023	169

Fig. 2.2.4.11. Industrial Visit to Kwality Photonics on 06-01-2022

Fig. 2.4.4.12. Industrial Visit to NRSC during 2022-2023

Fig. 2.4.4.13. Industrial Visit to ATC, Shamshabad during 2022-2023

Fig. 2.4.4.14. shows the analysis on industrial visit to Kwality Photonics during 2022-2023.

Fig. 2.4.4.14. Analysis on industrial visit to Kwality Photonics during 2022-2023

Internships

Faulty of the department continuously interact with the industries for the better carrier of students. This results in allowing the students to do internships in industries as part of curriculum. This helps the students to in understanding the working style in industries, working environment, communication and management skills, usage of systems and tools. Table 2.2.4.6 shows the number of internships completed by students from 2020 to 2024.

Table 2.2.4.6 Student Internships in Industries

S.No	Academic Year	Number of Student Internships
1	2020-2021	87
2	2021-2022	86
3	2022-2023	77
4	2023-2024	243

Training for Students by Industry

Training is given to students to get placements with the help of industry attached Laboratories. Currently, 195 Students from ECE department are undergoing online training in VLSI Design by Maven Silicon Softech Pvt.Ltd, Bangalore attached to ECAD-VLSI lab.

Projects completed by Students as part of Curriculum in Industry

Faculty of ECE department have good contacts with industries They refer the students to do projects in industries. Based on the internal needs of the industrial persons internally, technical work is allotted to students. Students take that internal as the academic projects in various Industries and Research Organizations like DRDO, NRSA etc. Table 2.2.4.7 shows the list of projects completed by the students in each academic year.

Table 2.2.4.7 Projects completed by Students in Industries/Research Organizations

Academic Year	S. No	Roll No	Title of the Project	Organization /Institute	Internal Guide
	1	17251A0G7 17251A0E7 17251A0H2	Indoor Air Quality Monitoring System	IIIT, Hyderabad, Telangana	Mrs M. Madhuri Latha

2020-2021	2	17251A064 17251A0A7 17251A068 17251A086	Analysis of Signal Parameters of Chinese BeiDou-2 and US GPS SNS under various conditions	Osmania University, Hyderabad, Telangana	Mrs M. Madhuri Latha
2021-2022	1	18251A0444 18251A0452	Energy efficient IOT based Waste Management System	IIT, Hyderabad, Telangana	Mrs M. Madhuri Latha
	2	18251A0410 18251A0421 18251A0416 18251A0412	Kalaman Filter Design for Ballastic Missile Defence Application	DRDL, Hyderabad, Telangana	Mrs M. Lakshmi
	3	18251A0438 18251A0436 18251A0434	Speech enhancement and Recognition	DRDL, Hyderabad, Telangana	Mis Ch. Anusha
	4	18251A0449 18251A04A6	Implementation of Smart Bus Tracking System using IOT	IIT, Hyderabad, Telangana	Mrs M. Madhuri Latha
	5	18251A04E5 18251A04D7 18251A04J0	Design and Analysis of Dual Circular Polarized Antenna	M/S Navstar Integrated Systems Pvt.Ltd, Hyderabad, Telangana	Mrs N. Krishna Jyothi
2022-2023	1	19251A0451 19251A0403 19251A0422 19251A04G6	IOT Based Pollution Monitoring System	IIT, Hyderabad, Telangana	Mr B. Sreekanth Reddy
	2	19251A04A5 19251A04A6	Implementation of High Speed Serial I/O using Xilinx tools in FPGA	DRDL, Hyderabad, Telangana	Mrs M. Shanthi
2023-2024	1	20251A04B9 20251A04B4	Combing Techniques of Solid State Power amplifier	NRSA, Balanagar, Hyderabad, Telangana	Mrs A. Sujatha Reddy

Funding Proposals Submitted in collaboration with Industry

ECE department has rich experienced and strong technical background faculty in different domains. Faculty submit proposals for funding in collaboration with Industries. Table 2.2.4.8 shows the proposals submitted in collaboration with industries

Table 2.2.4.8 Proposals for submitted in collaboration with industries

Academ-ic Year	S. No.	Title	Collaborative Industry	Date of Submission	Faculty Involved	Amount in Lakhs
2020-2021	1	Automatic plastic sorter using NIR technology	Scientech Technologies Pvt.Ltd, 94 Electronic Complex, Paradesipura, Indore, Madhya Pradesh	27-11-2020	Dr. B. Venkateshulu & Mrs. P.Sri Padma	Rs. 25.74

Fig. 2.2.4.15. Sample of MOU during submission of proposal

Fig. 2.4.4.15. shows the MOU between faculty of ECE department and Scientech Technology Pvt.Ltd for the Funding proposal on Automatic plastic sorter using NIR technology, submitted to Department of Science and Technology [DST].

FDPs/Workshops with Resource Persons from Industry

Experts from Industries are invited for Workshops and Faculty Development Programs for enhancement of technical skills and knowledge of both faculty and students of department. They are conducted by keeping the various subjects in curriculum and industrial needs. Table 2.2.4.9 shows Faculty Development Programs and Workshops Conducted in department related to subjects of curriculum/labs.

Table 2.2.4.9 Faculty Development Programs and Workshops Conducted

Academic Year	S.No	Name of Program	Number of Participants	Date from	Date to	Resource Person	Relating Course/Lab
2020-2021	1	FDP on Challenges in Computer Vision using Deep Learning & IOT Protocols	51	20-07-2020	24-07-2020	Mr M.L.Surya Tej, ML Engineer, Smart Bridge Kedar C, Graphics Hardware Engineer, Intel Technologies India Pvt. Ltd, Hyderabad	Internet of Things
	2	FDP on Wearable Devices	133	01-02-2021	05-02-2021	Mr N.Venkatesh, Senior Director, Silicon Labs, Hyderabad	VLSI Design
2021-2022	1	FDP on Deep Learning and Machine Learning in Biomedical Signal Processing	45	23-08-2021	03-09-2021	Mr L.Venkata Rama Raju, Founder & CEO, Data Jango Technologies Pvt.Ltd, Hyderabad	Digital Signal Processing
2022-2023	1	Preconference Workshop on Artificial Intelligence & Machine Learning real Time Application using Python	314	16-11-2022	16-11-2022	Mr V.Ram Kumar, CEO, PVR Tech Hub, Hyderabad	Artificial Intelligence

	2	Preconference Workshop on Robotics-Innovations to Incubation	323	16-11-2022	16-11-2022	Mr D.Prasoona, Founder Director, TIX Robotics, Hyderabad	Artificial Intelligence
2023-2024	1	Preconference Workshop on Introduction to IOT and Cloud	67	7-12-2023	7-12-2023	Mr Akshay Kumar, Senior IoT and AI Developer, Smartbridge Educational services, Pvt. Ltd., Hyderabad	Internet of Things
	2	FDP on Image Fusion: Techniques & Application for Enhanced Visual Perception	57	11-12-2023	16-12-2023	Mr N.Venkatesh, Senior Director, Silicon Labs, Hyderabad	Image Processing
	3	FDP on Advancements in IOT driven Antennas for Satellite Navigation Systems	59	18-12-2023	23-12-2023	Dr V.Srinivasa Rao, Scientist F, RCI, DRDO, Hyderabad	Antennas and Wave Propagation, Satellite Communication & Internet of Things

2.2.5 Initiatives related to industry internship/summer training (10)

Institute Marks : 10.00

2.2.5: Initiatives Related to Industry Internship / Summer Training (10)

A. Industrial training/tours for students (2)

B. Industrial /internship /summer training of more than two weeks and post training Assessment (3)

C. Impact analysis of industrial training (2)

D. Student feedback on initiative (3)

Students complete Industry Internships /Summer Training in their areas of interest during the Semester or at the end of the Semesters. ECE department also organizes Training Programs relevant to new Industry Trends and Job Roles. External Trainers from well-known Industries train students on the latest technological developments.

A. **Industrial training/tours for students (2)**

ECE Department organizes Industrial Training/ Tours for students every year.

The Objectives of Industrial Trainings/ Tours are:

- To expose the students to practical environment and state-of-the-art technologies.
- To get first-hand understanding of how industries operate.
- To visualize and grasp concepts discussed in classrooms.
- To understand the industrys standards, regulations, and best practices
- To explore different career paths and make informed decisions

Details of Industry visit given in Table 2.2.5.1. And Fig.2.2.5.1, 2.2.5.2 and 2.2.5.5, are the pictures of the Industrial Visits. Fig. 2.2.5.6 shows a single page report of Industrial Visit.

Table 2.2.5.1 List of Industrial Visits.

Academic year	S.No	Date	Name of the Event	Area	No. of participants
2023-24	1	13/12/2023	Industrial visit to Kwality Photonics Pvt. Ltd.	LEDs, PCB Design, Soldering	106
2022-23	2	18/03/2023	Industrial visit to ATC AAI, Shamshabad	GPS Data Analysis	43
	3	27/03/2023	Industrial visit to ATC AAI, Shamshabad	Radars and Antennas	53
	4	29/03/2023	Industrial visit to NRSC, Jeedimetla	Satellite Data Analysis	106
	5	20/04/2023	Industrial visit to Kwality Photonics Pvt.Ltd	Rigging of components on PCB and Soldering	51
2021-22	6	05/01/2022	Industrial visit to Kwality Photonics	LCD Display, Noise Figure Performance	100
	7	06/01/2022	Industrial visit to Kwality Photonics	LEDs, PCB Design, Soldering	105

Fig.2.2.5.1 Visit to Kwality Photonics on 20-12-2023

Fig.2.2.5.2 Visit to Kwality Photonics on 05-01-2022

Fig.2.2.5.3 Visit to Kwality Photonics on 06-01-2022

Fig. 2.2.5.4 Visit to NRSC-Jeedimetla on 29-03-2023

Fig.2.2.5.5 Visit to ATC AAI- Shamshabad 0n 27-03-2023

Fig.2.2.5.6 Single page Industrial Visit Report

B. Industrial internship /summer training of more than two weeks and post training Assessment (3)

Initiatives / Implementation of industry Internship/ Summer Training are as given below

- The Internships are arranged collaboratively by the industrial internship coordinator of the department with the industry associates and student volunteers.
- A copy of the confirmation letter for training is submitted to the Industrial Internship coordinator.

Internships Initiated by the Company or TPO

- The Industry requests the Training and Placement Office (TPO) for Interns or Vice-versa.
- Request would be circulated in student groups, if the students meet the requirement criteria of the company, they are allowed to apply through TPO,
- If students qualify in recruitment process (Screening test, exam etc...) they get an offer letters. (Recruitment process varies for each Industry). The internships details are given in Table 2.2.5.2 to 2.2.5.5

Internships Initiated by the Student

- Students approach an industry if there are any requirements for interns and inform the same to the HoD.
- HoD writes a request letter to the Industry.
- Industry completes the recruitment process
- Students receive an acceptance letter from the Industry.

Fig. 2.2.5.7 shows the request letter from the HoD to the Industry. Fig. 2.2.5.8 shows the Offer Letter from Industry and Fig.2.2.5.9 Shows the Internship Offer Letter from Industry via TPO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(AUTONOMOUS)

For Women

Fig.2.2.5.7 Recommendation letter from HoD

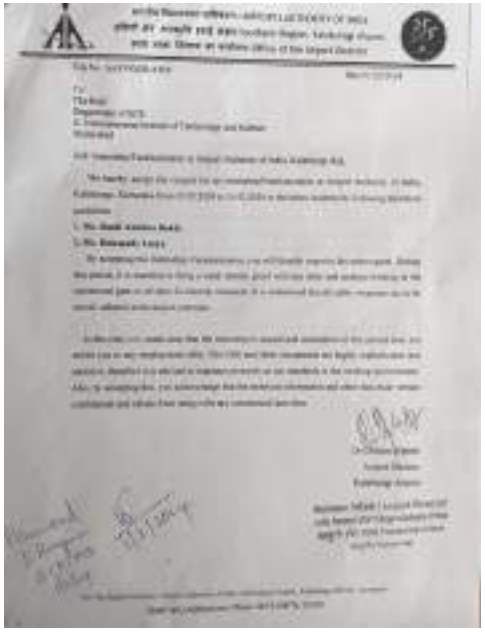


Fig.2.2.5.8 Offer Letter from Industry

Fig. 2.2.5.9 Internship Offer Letter from Industry via TPO

Table No.2.2.5.2 Industrial Internship (2023-24).

Total No. of Student Internships: 243

Sl. No	Roll. No	Name of the Student	Industry	Stipend per months (in INR)	Duration (in Months)
1	20251A04G6	G.Snehalatha	Merilytics	25,000	6
2	20251A04D6	Kumadini Madireddy	AT&T	45,356	6
3	20251A0491	A.Pranathi	AT&T	45,356	6
4	20251A04H2	Manusha Sangati	Blue Yonder	50,000	6
5	20251A04A2	K.Varshitha Reddy	State Street	30,000	6
6	20251A0447	M.Srivani	Qualcomm	45,000	6
7	20251A0446	M.Jahnavi	Blue Yonder	50,000	6
8	20251A04D1	K.Ramya	Deloitte	25,000	3
9	20251A04H6	T.Shruthi	Blue Yonder	50,000	6
10	20251A0481	P.Meghana	Deloitte	25,000	3
11	20251A0437	Ch.Nainitha	AT&T	45,356	6
12	20251A0466	Hema Sreyalahari	Micron	22,000	6
13	20251A0485	Sadhu Chandra Sahoda	APTIV	25,000	6
14	20251A0464	Ramalingappa Aishwarya	Ford	15,000	6
15	20251A04F5	Prathima	IIIT, Hyderabad	No Payment	6
16	20251A04G3	M.Reshmi Reddy	State Street	50,000	6
17	21255A0403	M,Mounika	APTIV	25,000	6
18	20251A0436	Bokkala Prathyusha	APTIV	25,000	6
19	20251A04C5	D.Pooja Sree	Ford	15,000	6

20	20251A04B4	R.Swathi	ISRO	No Payment	2
21	20251A04B9	L.Kamakshi	ISRO	No Payment	2
22	20251A0453	Risheela	EnlightCad Engineering	No Payment	1
23	20251A0460	Varsha Kommera	J P Morgan	75,000	6
24	20251A0434	Bashetty Shravani	J P Morgan	75,000	6
25	21255A0408	N.Prathyusha	State Street	30,000	6
26	20251A04B9	V.V.L.K Likhitha	J.P Morgan	75,000	6
27	20251A0401	A.Srivalli	State Street	50,000	6
28	20251A04B2	P.Akshitha	Salesforce	30,000	6
29	20251A04A9	Sowjanya	Salesforce	30,000	6
30	20251A0417	K.Poojitha	Flipkart	50,000	6
31	20251A0462	Manogna Dhanishetti	PWC	35,000	6
32	20251A0402	Bandi Alekhya Reddy	AAI	No Payment	0.5
33	20251A0404	Lasya Boinapalli	AAI	No Payment	0.5
34	20251A0445	Gayatridevi	J.P Morgan	75,000	6
35	20251A04E8	T.Jhansi	Flipkart	50,000	6
36	20251A04H9	V.Harshitha	Salesforce	30,000	6
37	20251A04A7	M.Hamsika	Flipkart	50,000	5
38	20251A0423	M.Sai Joshitha	PWC	35,000	6
39	20251A0411	G.Swathi	Salesforce	30,000	6
40	20251A0415	K.Chandana Lakshmi	PWC	35,000	6
41	20251A0463	Anjali Dharmini	Salesforce	30,000	6
42	21255A0415	B.Sowjanya	Flipkart	50,000	5
43	20251A04D5	M.Hrishitha	Flipkart	50,000	5
44	20251A04G7	P.Apurva	Flipkart	50,000	5
45	20251A0494	B.Saritha	J.P Morgan	75,000	6
46	20251A04G4	N.Rashmitha	Telstra	25,000	4
47	20251A04C2	B.Sampreethi Reddy	Telstra	25,000	5
48	**196 Students**		**PVR Tech**	**No Payment**	**1**

Table 2.2.5.3 List of Industrial Internship (2022-2023).

Total No. of Student Internships: 77

S. No	Roll Number	Name of the Student	Industry	Stipend per months (in INR)	Duration (in Months)
1	19251A04B6	Kiranmai Tarlada	State Street	30,000	6
2	19251A0469	Pavani Chowla	JP Morgan Chase@Co	70,000	3
3	19251A0423	K. Priyanka	State Street	30,000	6
4	19251A0427	KamiReddy Keertimayee	State Street	30,000	6
5	19251A0496	Mounika Pamarthi	Providence	40,000	6
6	19251A0454	Thurlapati Harini	Deloitte	25,000	3
7	19251A04C1	Abbathini Soumya	Deloitte	25,000	3
8	19251A04F7	Hanisha Orampati	Wabtec Corporation	30,000	5
9	19251A04E6	Manda Hephsiba	Deloitte	25,000	3
10	19251A04H8	Vavilapalli Pavitra	Providence Global Centre	40,000	5
11	19251A0472	G. Meghana	AT&T	45,356	6
12	19251A0447	Sai Priya Kamuni	AT&T	45,356	6
13	19251A04G6	Rucha Shashank Dhodapkar	JP Morgan Chase@Co	70,000	3
14	19251A0432	Lalana Palwaye	AT&T	45,356	6

15	19251A0467	Billa Keerthana	State Street Corporate Services Mumbai Private Limited	30,000	6
16	19251A04A3	Pasula Pallavi	JP Morgan Chase@Co	70,000	3
17	19251A04C0	V. Siva Shahitha	AT&T	45,356	5
18	19251A0410	Chenamalla Yashashwini	State Street Corporation	30,000	6
19	19251A0448	Sai Sunidhi Pabba	State Street	30,000	6
20	19251A0419	J Yashaswini	Deloitte(DAS)	25,000	3
21	19251A04A9	Regalla Amrutha	State Street	30,000	6
22	19251A04C2	Manaswini AmiReddy	Deloitte	20,000	3
23	19251A0407	Varshini Boorla	JP Morgan Services India Private Limited	70,000	3
24	19251A04A4	Polaveni Soumya	Deloitte	25,000	3
25	19251A04H2	Shravani Madhunala	Micron	22,000	5
26	19251A0454	Thurlapati Harini	Deloitte	25,000	3
27	19251A0492	Sai Naga Sowmya Chandana	JP Morgan	50,000	3
28	19251A0468	Neha Chadive	JPMC	70,000	3
29	19251A04H1	Vaishnavi Shikari	Cognizant	12,000	4
30	19251A0437	Mohammed Sana	Ford	15,000	6
31	20255A0416	Kadari Nikhitha	Ford Motor Private Limited	15,000	6
32	19251A0444	Jagruthi Pillalamarri	Ford	15,000	6
33	19251A0433	Lekhya Bayya	Ford	15,000	6
34	19251A0422	Hoyasala Devi. K	Micron	22,000	5
35	19251A0434	Mahitha Tenneti	Viasat	22,000	2
36	19251A0403	Alekhya Pathak	IIT,Hyderabad	No Payment	3
37	19251A0451	Pranati Tantravahi	IIT,Hyderabad	No Payment	3
38	19251A0403	Alekhya Pathak	IIT,Hyderabad	No Payment	3
39	19251A0422	Hoyasala Devi. K	IIT,Hyderabad	No Payment	3
40	19251A04G6	Rucha Dhodapkar	IIT,Hyderabad	No Payment	1
41	19251A0451	Pranati Tantravahi	IIT,Hyderabad	No Payment	3
42	20255A0403	Thokala Pavani	Medha Servo Drives Pvt Ltd	20,000	6
43	19251A04G5	Rommula Shruthi	Book my stall	No Payment	1
44	19251A0438	Mukkisa Pranathi	Ernst & Young(EY)	21,200	4
45	19251A0401	Arava Vedabhishikta	Micron Technology Operations	22,000	5
46	19251A04B7	V Meghana	Deloitte	25,000	2
47	19251A04F6	Nainala Poojitha	Book my stall	8,000	5
48	19251A04E7	Maringanti Praneetha	Ford	15,000	5
49	20255A0419	Amula Reshmitha	Ford	15,000	5
50	19251A0439	Pavithra N	Stellantis	20,000	6
51	20255A0414	P. Jaahnavi	Stellantis	20,000	6
52	20251A0494	Bhukya Saritha	JP Morgan Chase@Co	70,000	2
53	20251A04B9	Vellanki Venkata Lakshmi Kamakshi Likhitha	JP Morgan Chase@Co	70,000	2
54	20251A0477	Tanusha Meka	Silicon Labs	35,000	2
55	20255A0406	Bisai Suneetha	LTI Mind Tree	10,000	3
56	19251A04H7	Thumma Sabitha	Mind Tree	No Payment	3
57	19251A04H4	Meghana Tiruvuru	LTI Mind Tree	No Payment	3
58	19251A04E5	M Sneha Chowdary	Cognizant	12,000	4
59	19251A04A2	Pokala Avanthika	LTI Mind Tree	10,000	3
60	19251A04A1	Nookala UshaKiran	Colruyt group	20,000	2
61	19251A04G3	Greeshma Pendker	LTI Mind Tree	No Payment	3

62	19251A0464	Sathvika Bandlamudi	Colruyt group	20,000	2
63	19251A0497	Mugala Naveena	Ford Motor Private Limited	15,000	3
64	19251A0425	Kanuganti Jagruthi	Mind Tree	No Payment	3
65	19251A0414	Esa SaiSindhu	Freyr energy	15,000	5
66	20251A0434	Shravani Bashetty	JP Morgan Chase@Co	70,000	2
67	20251A0445	Gayathri Devi Malisetty	JP Morgan Chase@Co	70,000	2
68	20251A0460	Varsha Kommera	JP Morgan Chase@Co	70,000	2
69	20255A0408	S Keerthana	Colruyt group	20,000	5
70	19251A0465	B Nihalini	Accenture	No Payment	3weeks
71	19251A0466	B. Akhila	Accenture	No Payment	3weeks
72	19251A04A7	Rahena	Accenture	No Payment	3weeks
73	19251A04H6	T Siri	Accenture	No Payment	3weeks
74	19251A0444	P. Jagruthi	Ford	15,000	6
75	19251A0474	G. Tejaswini	Deloitte	25,000	3
76	20255A0414	P. Jaahnavi	Stellantis	20,000	6
77	19251A04D6	M. Jahnavi	Ordinanee Factory	No Payment	1

Table 2.2.5.4 List of Industrial Internship (2021-2022).

Total No. of Student Internships: 86

Sl.No	Roll No	Name of the Student	Industry	Stipend Paid per month (in INR)	Duration (in Months)
1	18251A0431	Aiesha Fathima	JPMC	50,000	5
2	18251A0430	G Vinathi	JPMC	50,000	5
3	18251A0404	B Shirlene Rose	JPMC	50,000	5
4	18251A04D8	M Srihitha	JPMC	50,000	5
5	18251A0478	M Jeevani	JPMC	50,000	5
6	18251A04G7	M Padmasree	State Street	30,000	6
7	18251A04C2	A Kavya Sree	State Street	30,000	6
8	19255A0415	Md. Nadia Begum	State Street	30,000	6
9	18251A0445	M Akhila	State Street	30,000	6
10	18251A0448	M Nikhila	State Street	30,000	6
11	18251A0414	K Prathyusha	State Street	30,000	6
12	18251A0405	C Krishna Priya	State Street	30,000	6
13	18251A0488	V Anusha	State Street	30,000	6
14	18251A0485	S Keerthi Reddy	State Street	30,000	6
15	18251A0489	V Bhavika	State Street	30,000	6
16	18251A04C9	D Jishitha Reddy	Deloitte	25,000	4
17	18251A04H0	O Cherishma	Deloitte	25,000	4
18	18251A04A5	M Akanksha	Deloitte	25,000	4
19	18251A04A9	M Nikhitha	Deloitte	25,000	4
20	18251A0463	B Pranathi	Deloitte	25,000	4
21	18251A0465	B Voohitha	Deloitte	25,000	4
22	18251A0462	Anjali Sharma	Deloitte	25,000	4
23	18251A0499	D Shreya	Deloitte	25,000	4
24	18251A04A0	G Amogha	Deloitte	25,000	4
25	18251A0492	Ayushi Banerjee	Deloitte	25,000	4
26	18251A0421	P Sri Vidhya	Deloitte	25,000	4
27	18251A0436	Ch M Abhigna	Deloitte	25,000	4
28	18251A0416	M Chareeshma	Deloitte	25,000	4

29	18251A0452	P Pranathi	Deloitte	25,000	4
30	18251A04B0	P Snigdha	Persistent	10,000	6
31	18251A0496	B Anuradha	Persistent	10,000	6
32	18251A0477	M Shailaja	Persistent	10,000	6
33	18251A04A6	M Sai Likhitha	Persistent	10,000	6
34	18251A04D1	T Guru Yashasree	Persistent	10,000	6
35	18251A0440	G Chinmayee Varma	Persistent	10,000	6
36	18251A0444	KLS Rasagjna	Persistent	10,000	6
37	18251A0451	N Suharsha	Persistent	10,000	6
38	18251A0433	B Gayathri	Persistent	10,000	6
39	18251A0410	G Srivalli Saranya	Persistent	10,000	6
40	18251A0472	K Bhargavi	TATA Elxsi Limited	10,000	4
41	18251A04B2	P Navya Sree	Telstra	25,000	5
42	18251A04F8	Ch. Akhila	Cognizant	12,000	5
43	18251A04F6	Ch. Sai Aasritha	Cognizant	12,000	5
44	18251A04D2	J Mounika	Cognizant	12,000	5
45	18251A04D9	M Anitha	Cognizant	12,000	5
46	19255A0413	R Chandana	Cognizant	12,000	5
47	18251A04F9	D Laya	Cognizant	12,000	5
48	18251A0473	K Akhila	Cognizant	12,000	5
49	18251A0467	U Ananya Sai	Cognizant	12,000	5
50	18251A0464	B Sreeja	Cognizant	12,000	5
51	18251A0483	P Sai Priya	Cognizant	12,000	5
52	18251A04A6	M Sai Likhitha	Cognizant	12,000	5
53	18251A0440	PCL Harika	Cognizant	12,000	5
54	18251A0418	GSL Manaswini	Cognizant	12,000	5
55	18251A0437	Ch. Sai Sri Keerthana	Cognizant	12,000	5
56	18251A0439	G Tejasree	Cognizant	12,000	5
57	19255A0401	K Srilekha	Cognizant	12,000	5
58	18251A0453	P Niharika	Cognizant	12,000	5
59	18251A04B7	V Mouna	Dupont	35,000	6
60	18251A0443	KV Poojitha	Zenoti	25,000	6
61	18251A0460	Yasmeen Begum	Zenoti	25,000	6
62	18251A0456	S Shreya Reddy	Service Now	45,000	5
63	18251A04B3	R Triveni	Medtronic	40,000	4
64	19255A0416	Ch Dharani	Wipro	Unpaid	2
65	19255A0417	B Nalandeshwari	Wipro	Unpaid	2
66	18251A04G2	K Saachika Reddy	Wipro	Unpaid	2
67	18251A04J0	M Yamini	Dhruva Space	10,000	7
68	18251A04D6	K Navyatha	AiZen Algo	26,000	5
69	18251A04C7	B Srija	AT & T Communication Services	42,371	6
70	18251A04C3	A Likitha Reddy	AT & T Communication Services	42,371	6
71	18251A0491	A Sri Bala Sravya	AT & T Communication Services	42,371	6
72	18251A0492	Ayushi Banerjee	AT & T Communication Services	42,371	6
73	18251A0458	T Sadhana	AT & T Communication Services	42,371	6
74	18251A0473	K Ujwala	Coltuyt Group	10,000	5
75	18251A04B4	Sami Unnisa Begum	Coltuyt Group	10,000	4

76	18251A0486	T Aneesha	Coltuyt Group	10,000	2
77	18251A04E1	P Sai Valli Shivani	Coltuyt Group	10,000	4
78	18251A04D3	K Sri Charita	Channel Soft IT Services Pvt. LTd.	12,000	3
79	19255A0404	A Triveni	Medha Servo Drives Pvt. Ltd.	37,403	3
80	18251A0450	P Ritvika Rao	Erudite Web Solutions	20,000	6
81	18251A04B6	V Bhavya	Excellerate Global Solutions	10,000	3
82	18251A0482	G Pallavi	Ford	15,000	3
83	18251A04B5	S Sushma	Ford	15,000	3
84	18251A0426	S Akshitha	Ford	15,000	3
85	18251A0403	B Bhavana	Ford	15,000	3
86	18251A0446	M Divya	Ford	15,000	3

Table 2.2.5.5 List of Industrial Internship (2020-2021).

Total No. of Students Internships: 87

Sl. No	Roll Number	Name of the Student	Industry	Stipend Paid per months(in INR)	Duration
1	19251A04C5	Sruthi Bettela	Verzeo	No Payment	2months
2	19251A0498	Hasmitha Muvva	IBM	No Payment	1month
3	19251A04G5	Rommula Shruthi	Intershala Classroom	No Payment	1weeks
4	19251A04A7	Rahena	Intershala Classroom	No Payment	8months
5	19251A0484	K.Meghana	Unschool	No Payment	1month
6	19251A04B3	Shail Rukshsana Tabassuma	Unschool	No Payment	1month
7	19251A0484	Mohammed Sana	Unschool	No Payment	1month
8	19251A0460	Varala Namitha Patel	Intershala Classroom	No Payment	1day
9	19251A0453	Thiram Dasu Sucharitha	Starpine	No Payment	10day
10	19251A0407	Boorla Varshini	Intershala Classroom	No Payment	1day
11	19251A0446	S,Sushma	Starpine	No Payment	10days
12	19251A0406	Boin Prashamsa	Starpine	No Payment	10days
13	19251A0440	Uttara Nanduri	Kleen Infosec Pvt.Ltd	No Payment	2months
14	19251A0407	Boorla Varshini	Intershala	No Payment	1day
15	19251A0406	Bisai Suneetha	DRDO	No Payment	6months
16	19251A0459	V.Akanksha	Starpine	No Payment	10day
17	19251A0433	Lekhya Bayya	Oyester Training	No Payment	1month
18	19251A04C5	Sruthi Bettela	Verzeo	No Payment	2months
19	17251A04E9	Keerthana uppulur	Brain O Vision	No Payment	2months
20	17251A04D1	Kasarla Vyshnavi	Brain O Vision	No Payment	4months
21	17251A04D1	Kasarla Vyshnavi	Brain O Vision	No Payment	4months
22	17251A0411	Deeksha Manya	Intershala	No Payment	4months
23	17251A0417	P.Praisy Sharon	Inmovidu Tech	No Payment	2days
24	17251A04B3	Sahithi Gudi	Brain O Vision	No Payment	2days
25	17251A0468	Kaja Niharika	Youth Empowerement Foundation	No Payment	2days
26	17251A0483	S.Sai Phalguni	ECIL	No Payment	1month
27	17251A04E6	Rapolu Harshitha	Research Center Imart Part of DRDO	No Payment	1month
28	17251A0497	K.S.Vyshnavi	IIIT Hyderabad	No Payment	1month
29	17251A0485	Jhansi Lakshmi	Keka HR	No Payment	1month
30	17251A04C4	Dodda Vyshali	Goal Street	No Payment	2months
31	17251A04A3	N.Husuma Sai	Brain O Vision	No Payment	1month
32	17251A04C1	Amritha Sai	Goal Street	No Payment	2months

33	17251A0491	Adiraju Gayathri	Brain O Vision	No Payment	1month
34	17251A0430	Y.Sai Sreeja	Kenexoft Technologies	No Payment	1month
35	17251A0402	Battula Monica	Verzeo	No Payment	1month
36	17251A0427	Bhavana Thirthala	NIT AP	No Payment	1month
37	17251A0440	Navya Likhitha Garikapathi	Cyrrup Sokution IIITH	No Payment	3 weeks
38	17251A0414	Nabila Hashmi	KEKA By Conduira Online	No Payment	1month
39	17251A0405	Diksha Kaul	Kenexoft Technologies	No Payment	3months
40	17251A0478	Haritha Purushottam	Brain O Vision	No Payment	1month
41	17251A04D6	M.Mani Chandana	BSNL	No Payment	2weeks
42	18255A0401	Burra Kiranmai	Entuple Tech	No Payment	2months
43	17251A0442	Bhavya Sree	Colruyt Group	20,000	3month
44	18251A04E6	Shaik Rabiya Nikhat	Inmovidu Tech	No Payment	1month
45	18251A04H4	S.Chidvilasy	Verzeo	No Payment	2month
46	18251A04D9	M.Anitha	My Captain	No Payment	1month
47	18251A04E6	Shaik Rabiya Nikhat	Inmovidu Tech	No Payment	1month
48	18251A04E2	P.Kavya	Inmovidu Tech	No Payment	1month
49	18251A04E2	P.Kavya	Inmovidu Tech	No Payment	1month
50	18251A04H5	Samreen Naz Irshad	TSIC. Unicef	No Payment	1month
51	18251A0491	A.Sri Bala Sravya	Inmovidu Tech	No Payment	1month
52	18251A04G3	Kalyani Jahnavi	BSNL RTTC	No Payment	10days
53	18251A0475	M.Yashika Reddy	Internship Studio	No Payment	1month
54	18251A04E0	M.Rohini	Verzeo	No Payment	2months
55	18251A04C1	A.Jaathya	Verzeo	No Payment	2months
56	18251A04E1	P.Sai Valli Shivani	Verzeo	No Payment	2months
57	18251A04B4	Samiunnisa Begum	Internship Studio	No Payment	1month
58	18251A04B5	C.Pranathi	Inmovidu Tech	No Payment	1month
59	18251A0436	Manasvini Abhigne	AICTE	5,000	2months
60	18251A04C7	B.Srija	Intershala	No Payment	1.5 months
61	18251A04C7	B.Srija	IIRS	No Payment	3months
62	18251A04C7	B.Srija	Deep Learning By Coursera	No Payment	1day
63	18251A0424	R.Bhargavi	Deloitte	No Payment	1month
64	18251A04H6	T.Harshitha	Verzeo	No Payment	2months
65	18251A04H6	T.Harshitha	Verzeo	No Payment	2months
66	18251A04H6	T.Harshitha	Verzeo	No Payment	2months
67	18251A04H6	T.Harshitha	Verzeo	No Payment	2months
68	18251A04H6	T.Harshitha	Verzeo	No Payment	2months
69	18251A0410	Grandhi Srivalli	Spyry Tech	No Payment	2months
70	18251A04E7	Naga Pranathi Todimala	Verzeo	No Payment	2months
71	18251A04G5	K.Sai Tapaswini	Verzeo	No Payment	2months
72	18251A04G2	Saachika Reddy	Verzeo	No Payment	1month
73	18251A04G1	Nikitha Gurrala	Verzeo	No Payment	2months
74	18251A04C4	Amulya	Verzeo	No Payment	2months
75	18251A04C0	Y.S Priyanka	Unschool	No Payment	2months
76	18251A04G3	Kalyani Jahnavi	CMR EC	No Payment	3weeks
77	18251A04G3	Kalyani Jahnavi	CMR EC	No Payment	3weeks
78	18251A04D3	K.sri charitha	Verzeo	No Payment	2months
79	17251A0411	Deeksha Manya	Intershala	No Payment	4months

80	17251A0417	P.Praisy Sharon	Inmovidu Tech	No Payment	1day
81	18251A04C3	A.Likitha Reddy	Verzeo	No Payment	2months
82	17251A0440	Navya Likhitha Garikapathi	Unschool	No Payment	3weeks
83	17251A0440	Navya Likhitha Garikapathi	Cyrrup Sokution Iiith	5,000	3weeks)
84	17251A0440	Navya Likhitha Garikapathi	Deloitte	25,000	6months)
85	17251A0435	C.Sravya	Data Beat	No Payment	1month
86	18251A04E8	T.Sravani	Verzeo ,IIT Kanpur	No Payment	2months
87	18251A0407	Diksha Naval	Verzeo	No Payment	2months

1. **Impact analysis of Industrial Training (2)**

ECE Department students are given Training by Industry personnel of 30 to 120 hours in various trending domains like Advance Algorithms, Data Structures, Software languages, including Aptitude, Logical Reasoning, Verbal and Soft skills. These trainings immensely help the students in their Placements. Table 2.2.5.6 shows the Training Programs conducted for the students in the last 3 years.

Table 2.2.5.6 Training Programs Conducted

Sl.No.	Name of the Program / Event	Resource Person	Starting Date	Duration	Number of participants
Academic Year 2023-24					
1	Python, Data Structures (for 3rd Year Students)	Mr.Cheema Jalandar, Senior Corporate Technical, Trainer, Coign Technologies	02-01-2024	**Ongoing**	**210**
Academic Year 2022-23					
1	Advanced Algorithms and Data Structures training Program (for 3rd Year Students)	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	05-10-2022	100 Hours	18
2	Placement Preparation Program (for 3rd Year Students)	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	10-10-2022	100 Hours	178
3	Java, SQL and Aptitude (for 3rd Year Students)	Ms.Aashritha, Technical Trainer, Byte XL India Pvt Ltd	09-11-2022	120 Hours	213
Academic Year 2021-22					
1	Campus Recruitment Training – Quantitative Aptitude, Logical Reasoning, Verbal,C&DS and JAVA(for 3rd year students)	Mr. Mohamed Abudullah, Mr.Shasank,Mrs.Deepthi, Conduiraonline Education & Training Services, Hyderabad	10-09-2021	120 Hours	188
2	Advanced Algorithms and Data Structures training Program(for 3rd year students)	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	16-09-2021	100 Hours	49
3	Basics of C, C++ and Java (for 2nd Year Students)	Ms. Mubeena, Cantilever Labs, T-HUB Catalyst Building, IIIT Hyderabad	12/5/2021	120 Hours	198
Academic Year 2020-21					
1	Campus Recruitment Training – Quantitative Aptitude, Logical Reasoning, Verbal,C&DS and JAVA	Mr. Mohamed Abudullah, Mr.Shasank,Mrs.Deepthi, Conduiraonline Education & Training Services, Hyderabad	10-11-2020	120 Hours	161
2	Women Empowerment Program, ICT Academy-DXCT Technology – **Soft Skills**	Suchithra P.R, Robotics Engineer at TechieMan Technologies	1-4-2021	40 Hours	41

Impact of Industrial Training

- Industrial training plays a crucial role in increasing networking opportunities while building good relationships with companies.
- Industrial training helps students to enhance their interpersonal, communication skills, and teamwork abilities.
- These trainings have proved to be an excellent platform for networking as the students interact and connect with the corporates.
- Student can do Project during the Training or after the training.
- For students, such corporate trainings open many doors for internships.
- Internships help the students to get practical exposure and will help them to get a job in their interested domain.
- After the Internship, Industry may offer full time job (based on student's performance).

Fig.2.2.5.10 Shows Offer Letter after Internship.

Fig.2.2.5.10 Offer Letter after Internship

D. Student's Feedback on Initiatives (3)

- The comments and suggestions about the initiatives taken by the department towards arranging industry interaction, industry training program and industrial visit are obtained from the students.
- The remedial action will be taken to ensure the effectiveness of the above said activities and hence the quality of the same is improved in continuous manner.
- The suggestions are considered in order to improve this process so that students get benefitted.
- The suggestions obtained from the students are the kind of industrial visit and the lecture topic/course they need further, in order to improve their skills and knowledge in academic and co-curricular activities. The corrective action will be taken for further improvements.
- The feedback form on Initiatives for Industrial Visit/Training from students is in Fig.2.2.5.11. Feedback collected from Resource person is shown in Fig.2.2.5.12.

Feedback is collected from student the action plan taken after the industrial visit are given in Fig. 2.2.5.11 and Fig.2.2.5.12 are given below and Resource person feedback is also given below in Fig.2.2.5.13

Fig.2.2.5.11 Feedback collected from Students on Initiatives

Fig.2.2.5.12 Feedback analyses on industry visit

Fig.2.2.5.13 Feedback collected from Resource Person from Industry

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175) Total Marks 175.00

Define the Program specific outcomes

:

PSO1	Research Activities: Develop abilities to successfully analyze, execute and synthesize hardware and software oriented mini and technical major projects in identified specializations and areas of interest, and enrich industry compatibility.
PSO2	Professional Outlook: Establish a good knowledge sharing network and peer connectivity through Professional Society Memberships, Conduct of seminars, Technical Events and Conference Paper Presentations, and earn prominence.

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25) Total Marks 25.00

Institute Marks : 25.00

No. of Core Courses : 10	**C2 :** 4	**C3 :** 4	**C4 :** 2

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 02	Course Year :	2020-2021

Course Name	Statements
C2 02.1	Define the basic Network terminology, Kirchoff's Laws.
C2 02.2	Analyze the given network using Theorems, Transient, Laplace transform and Network topology.
C2 02.3	Distinguish between Series and Parallel resonance.
C2 02.4	Classify a given network in terms of different two port network parameters.
C2 02.5	Develop the network from the Network functions.
C2 02.6	Design different Passive filters.

Course Name :	C2 03	Course Year :	2020-2021

Course Name	Statements
C2 03.1	Illustrate the fundamental behavior of various diodes and transistors.
C2 03.2	Examine the construction, operation and characteristics of BJT, JFET and MOSFET.
C2 03.3	Analyze the various amplifier circuits using small signal hybrid model.
C2 03.4	Identify various biasing techniques.
C2 03.5	Distinguish between Positive and Negative feedback circuits.
C2 03.6	Apply the knowledge of Diodes in designing circuits like rectifiers.

Course Name :	C2 12	Course Year :	2020-2021

Course Name	Statements
C2 12.1	Classify various power amplifier circuits in terms of their functionality.
C2 12.2	Distinguish between Linear and Non-linear Wave shaping circuits.
C2 12.3	Analyze the operation of OP-AMP, Multi vibrator and 555 Timer.
C2 12.4	Design different types of Multi vibrator circuits.
C2 12.5	Demonstrate various applications of op-amps.
C2 12.6	Illustrate the performance of ADCs and DACs.

Course Name :	C2 13	Course Year :	2020-2021

Course Name	Statements
C2 13.1	Analyze different modulation and demodulation schemes for Analog & digital communications
C2 13.2	Evaluate fundamental communication system parameters such as bandwidth, power, signal to quantization noise ratio and figure of merit.
C2 13.3	Design Analog & Digital communication systems to meet desired needs.
C2 13.4	Elucidate the design tradeoffs and performance of Analog and Digital communication systems.
C2 13.5	Calculate error rate, spectral efficiency of baseband data transmission systems.
C2 13.6	Analyze the concept of source coding and channel coding techniques.

Course Name :	C3 01	Course Year :	2021-2022

Course Name	Statements
C3 01.1	Acquire qualitative knowledge on the fabrication process of integrated circuits using MOS transistors.
C3 01.2	Analyze modes of operation of MOS transistor and its basic electrical properties.

C3 01.3	Design different VLSI Data path subsystems
C3 01.4	Illustrate semiconductor memory design using MOS transistors.
C3 01.5	Implementation of simple logic circuits using PLA, PAL, FPGA and CPLD.
C3 01.6	Illustrate how DFT principles can be applied for testing of manufactured ICs.

Course Name :	**C3 02**	**Course Year :**	**2021-2022**

Course Name	Statements
C3 02.1	Apply ZT to analyse Discrete signals and systems
C3 02.2	Analyse the spectral characteristics of discrete-time periodic and aperiodic signals using DFT. Implement FFT algorithms for efficient computation of DFT.
C3 02.3	Design of different types of digital filters.
C3 02.4	Distinguish between different Multi-rate signal processing techniques and identify finite word length effects.
C3 02.5	Illustrate the applications of DSP.

Course Name :	**C3 18**	**Course Year :**	**2021-2022**

Course Name	Statements
C3 18.1	Independently understand basic computer network technology, different types of network topologies and protocol.
C3 18.2	Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
C3 18.3	Identify the different types of network devices and their functions within a network.
C3 18.4	Understand and building the skills of sub netting and routing mechanisms.
C3 18.5	Acquaint with the knowledge of various routing protocols.
C3 18.6	Familiarity with various types of messages being exchanged at different layers of an Internet.

Course Name :	**C3 19**	**Course Year :**	**2021-2022**

Course Name	Statements
C3 19.1	Differentiate open-loop & closed-loop systems and discuss RH and Root locus techniques to determine the stability.
C3 19.2	Formulate mathematical modeling of continuous control systems using transfer function analysis.
C3 19.3	Analyze 1st and 2nd order systems with different inputs and design in time domain for a given specifications.
C3 19.4	Apply appropriate techniques such as Nyquist and Bode plot in frequency domain to determine and improve the stability of a system.
C3 19.5	Design different types of compensators for feedback control systems to improve system performance.
C3 19.6	Apply state space analysis to solve problems on continuous control systems.

Course Name :	**C4 02**	**Course Year :**	**2022-2023**

Course Name	Statements
C4 02.1	To analyze completely the rectangular waveguides and their mode characteristics and apply them for solving practical microwave transmission line problems
C4 02.2	To distinguish between the different types of waveguide and ferrite components, explain their functioning and select proper components for engineering applications.
C4 02.3	To distinguish between the methods of power generation at microwave frequencies, establish the performance characteristics of 2-Cavity and Reflex Klystrons, Magnetrons, TWTs and estimate their efficiency levels, and solve related numerical problems
C4 02.4	To realize the need for solid state microwave sources, understand the concepts of TEDs, RWH Theory and explain the salient features of Gunn Diodes and ATT Devices
C4 02.5	To establish the properties of Scattering Matrix, formulate the S-Matrix for various microwave junctions, and understand the utility of [S]parameters in microwave component design
C4 02.6	To set up a microwave bench, establish the measurement procedure and conduct the experiments in microwave lab for measurement of various microwave parameters identifying the possible errors.

Course Name :	C4 19	Course Year :	2022-2023

Course Name	Statements
C4 19.1	Explain the operation of basic satellite communication.
C4 19.2	Differentiate between various GNSS constellations and describe the three GNSS segments and explain the signal structure of GNSS.
C4 19.3	Frame various coordinate systems for estimating position.
C4 19.4	Estimate the various errors and their effect on position estimation.
C4 19.5	Determine user position from Navigation and Observation data formats.
C4 19.6	Apply DGPS principle and can also analyze various augmentation systems.

Course Articulation Matrix :

1 . course name : C202

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	Define the l	3	3	-	3	-	-	-	-	-	-	-	2
C202.2	Analyze the	3	3	2	2	-	-	-	-	-	-	-	1
C202.3	Distinguish	3	3	3	3	-	-	-	-	-	-	-	3
C202.4	Classify a g	3	3	3	3	-	-	-	-	-	-	-	-
C202.5	Develop the	-	3	-	3	-	-	-	-	-	-	-	-
C202.6	Design diffe	3	3	3	3	-	-	-	-	-	-	-	-
Average		**3.00**	**3.00**	**2.75**	**2.83**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.00**

2 . course name : C203

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	Illustrate th	3	3	3	3	-	-	-	-	-	-	-	-
C203.2	Examine th	3	3	3	3	-	-	-	-	-	-	3	-
C203.3	Analyze the	3	3	3	3	-	-	-	-	-	-	3	3
C203.4	Identify vari	3	3	3	3	-	-	-	-	-	-	3	-
C203.5	Distinguish	3	3	3	3	-	-	-	-	-	-	3	3
C203.6	Apply the k	3	3	3	3	-	-	-	-	-	-	3	3
Average		**3.00**	**3.00**	**3.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.00**	**3.00**

3 . course name : C212

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	Classify var	3	3	3	2	-	-	-	-	-	-	-	2
C212.2	Distinguish	3	3	2	3	-	-	-	-	-	-	-	2
C212.3	Analyze the	3	3	-	2	-	-	-	-	-	-	-	1
C212.4	Design diffe	3	-	3	3	-	-	-	-	-	-	-	3
C212.5	Demonstrat	3	3	3	3	-	-	-	-	-	-	-	-
C212.6	Illustrate th	3	3	3	3	-	-	-	-	-	-	-	-
Average		**3.00**	**3.00**	**2.80**	**2.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.00**

4 . course name : C213

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	Analyze diff	3	2	-	2	3	2	2	-	-	-	-	1
C213.2	Evaluate fu	3	3	-	-	1	3	2	-	-	-	-	1
C213.3	Design Ana	2	3	-	2	3	2	-	-	-	-	-	1
C213.4	Elucidate th	2	3	-	1	3	2	1	-	-	-	-	1
C213.5	Calculate e	3	3	-	-	1	2	2	-	-	-	-	1
C213.6	Analyze the	3	2	-	-	2	2	2	-	-	-	-	1
Average		**2.60**	**3.00**	**0.00**	**1.60**	**2.10**	**2.10**	**1.80**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**

5 . course name : C301

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	Acquire qua	3	3	3	3	3	-	-	-	3	-	-	3

C301.2	Analyze mc	3	3	3	3	-	-	-	-	3	-	-	3
C301.3	Design diffe	3	3	3	3	3	-	-	-	3	-	-	3
C301.4	Illustrate se	3	3	3	3	3	-	-	-	3	-	-	3
C301.5	Implementa	3	3	3	3	3	-	-	-	3	-	-	3
C301.6	Illustrate hc	3	3	3	3	-	-	-	-	3	-	-	3
Average		**3.00**	**3.00**	**3.00**	**3.00**	**3.00**	**0.00**	**0.00**	**0.00**	**3.00**	**0.00**	**0.00**	**3.00**

6 . course name : C302

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	Apply ZT to	3	3	3	3	-	-	-	-	-	-	-	3
C302.2	Analyse the	3	3	3	3	2	-	-	-	-	-	-	2
C302.3	Design of d	3	3	3	3	3	-	-	-	-	-	-	3
C302.4	Distinguish	3	3	3	3	3	-	-	-	-	-	-	2
C302.5	Illustrate th	3	3	3	-	-	-	-	-	-	-	-	-
Average		**3.00**	**3.00**	**3.00**	**3.00**	**2.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.50**

7 . course name : C318

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	Independer	-	-	1	-	-	-	-	-	-	-	-	2
C318.2	Enumerate	-	-	1	-	-	-	-	-	-	-	-	2
C318.3	Identify the	-	2	2	2	2	-	-	-	3	-	1	2
C318.4	Understand	-	2	2	2	-	-	-	-	2	-	1	2
C318.5	Acquaint wi	-	2	2	2	2	-	-	-	3	-	2	2
C318.6	Familiarity \	-	1	2	2	2	-	-	-	3	-	-	1
Average		**0.00**	**1.70**	**1.60**	**2.00**	**2.00**	**0.00**	**0.00**	**0.00**	**2.70**	**0.00**	**1.30**	**1.80**

8 . course name : C319

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C319.1	Differentiate	3	3	2	1	1	-	-	-	-	-	-	-
C319.2	Formulate r	3	3	2	2	-	-	-	-	-	-	-	-
C319.3	Analyze 1st	3	2	2	2	2	-	-	-	-	-	-	-
C319.4	Apply appro	3	3	3	3	3	-	-	-	-	-	-	-
C319.5	Design diffe	3	3	3	3	-	-	-	-	-	-	-	-
C319.6	Apply state	3	3	3	3	3	-	-	-	-	-	-	3
Average		**3.00**	**2.83**	**2.50**	**2.33**	**2.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.00**

9 . course name : C402

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	To analyze	3	3	3	-	3	-	3	-	-	-	-	-
C402.2	To distingui	3	3	3	3	3	-	3	-	-	-	-	-
C402.3	To distingui	3	3	3	-	-	-	3	-	-	-	-	-
C402.4	To realize tl	3	3	3	-	-	-	3	-	-	-	-	-
C402.5	To establish	3	3	3	3	3	3	3	-	-	-	-	-

C402.6	To set up a	3	3	3	3	3	1	3	-	-	-	-	-
Average		**3.00**	**3.00**	**3.00**	**3.00**	**3.00**	**2.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

10 . course name : C419

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C419.1	Explain the	3	-	-	-	-	-	-	-	-	-	-	3
C419.2	Differentiate	1	1	1	1	-	-	-	-	-	-	-	2
C419.3	Frame varic	3	3	2	3	-	-	-	-	-	-	-	2
C419.4	Estimate th	3	2	3	2	-	-	-	-	-	-	2	2
C419.5	Determine t	3	-	3	-	-	-	-	-	-	-	-	-
C419.6	Apply DGP:	2	2	3	-	-	-	-	-	-	-	-	3
Average		**2.50**	**2.00**	**2.40**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.00**	**2.40**

1 . Course Name : C202

Course	PSO1	PSO2
C202.1	2	-
C202.2	1	2
C202.3	3	-
C202.4	3	3
C202.5	-	-
C202.6	3	3
Average	**2.40**	**2.66**

2 . Course Name : C203

Course	PSO1	PSO2
C203.1	3	-
C203.2	3	-
C203.3	3	3
C203.4	3	3
C203.5	3	3
C203.6	3	3
Average	**3.00**	**3.00**

3 . Course Name : C212

Course	PSO1	PSO2
C212.1	3	-
C212.2	2	2
C212.3	2	-
C212.4	3	-
C212.5	-	3
C212.6	3	3
Average	**2.60**	**2.67**

4 . Course Name : C213

Course	PSO1	PSO2
C213.1	2	3
C213.2	-	-
C213.3	2	2
C213.4	2	1
C213.5	2	3
C213.6	2	1
Average	**2.00**	**2.00**

5 . Course Name : C301

Course	PSO1	PSO2
C301.1	3	3

C301.2	-	-
C301.3	3	3
C301.4	3	3
C301.5	3	3
C301.6	3	3
Average	**3.00**	**3.00**

6 . Course Name : C302

Course	PSO1	PSO2
C302.1	3	3
C302.2	3	3
C302.3	3	3
C302.4	3	3
C302.5	3	3
Average	**3.00**	**3.00**

7 . Course Name : C318

Course	PSO1	PSO2
C318.1	1	1
C318.2	2	2
C318.3	2	2
C318.4	2	2
C318.5	3	3
C318.6	1	1
Average	**1.80**	**1.80**

8 . Course Name : C319

Course	PSO1	PSO2
C319.1	1	1
C319.2	-	-
C319.3	2	-
C319.4	2	3
C319.5	2	-
C319.6	3	3
Average	**2.00**	**2.33**

9 . Course Name : C402

Course	PSO1	PSO2
C402.1	3	-
C402.2	3	3
C402.3	3	3
C402.4	3	-
C402.5	3	3

C402.6	3	3
Average	**3.00**	**3.00**

10 . Course Name : C419

Course	PSO1	PSO2
C419.1	-	-
C419.2	-	1
C419.3	2	1
C419.4	2	2
C419.5	-	-
C419.6	2	2
Average	**2.00**	**1.50**

Program Articulation Matrix :

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	2.16	1.83	2	2.33	1.66	1.75	2	PO8	PO9	PO10	PO11	PO12
C102	1	2	3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	2.2	2.2	2.2	PO4	2	PO6	PO7	PO8	1	PO10	PO11	2
C104	2	1	1.5	2	2	2	1.6	PO8	PO9	2	1.75	1.33
C015	2	PO2	2	PO4	PO5	1.83	PO7	1.16	PO9	1.33	PO11	1
C106	1.75	1.83	1.83	2	1.5	1.75	2	3	2.5	2	1	3
C107	2.17	2.2	2.2	1	2	PO6	PO7	PO8	1.4	PO10	PO11	2
C109	1.8	2	2	2	3	2	2	PO8	PO9	PO10	PO11	2
C110	3	2.33	2	1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	3	3	PO11	3
C112	3	2.5	2.33	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2
C113	2.75	2	2	2	2	1	PO7	PO8	PO9	PO10	PO11	PO12
C114	PO1	PO2	PO3	1	PO5	PO6	PO7	1	3	2.16	PO11	PO12
C115	3	3	2.33	2.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	2.33	2.33	2.83	2	2	PO6	PO7	PO8	1	PO10	PO11	PO12
C201	2.5	2.33	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202	3	3	2.75	2.83	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2
C203	3	3	3	3	PO5	PO6	PO7	PO8	PO9	PO10	3	3
C204	3	2	2	2	2	PO6	PO7	PO8	PO9	PO10	PO11	2
C205	3	3	2.5	1.5	2	PO6	PO7	PO8	PO9	2	PO11	PO12
C206	3	3	3	3	PO5	PO6	PO7	PO8	3	3	PO11	3
C207	3	3	2	2	3	PO6	PO7	PO8	PO9	PO10	PO11	2
C208	3	3	3	3	PO5	PO6	PO7	PO8	PO9	PO10	3	PO12
C210	3	2.83	2.83	3	3	PO6	PO7	PO8	PO9	PO10	2.75	2.4
C211	3	2	1	2	3	PO6	2	PO8	PO9	PO10	PO11	2
C212	3	3	2.8	2.67	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2
C213	2.6	2.6	PO3	1.6	2.1	2.1	1.8	PO8	PO9	PO10	PO11	1
C214	3	3	3	2.5	2.75	3	PO7	PO8	3	PO10	3	3
C215	3	3	3	2.8	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.6
C216	2.6	2.6	PO3	1.6	2.1	2.1	1.8	PO8	2	PO10	PO11	1
C217	3	3	3	3	3	3	PO7	PO8	3	PO10	3	3
C301	3	3	3	3	3	PO6	PO7	PO8	3	PO10	PO11	3
C302	3	3	3	3	2.67	PO6	PO7	PO8	PO9	PO10	PO11	2.5
C303	3	2.83	2.16	1.16	1.83	PO6	.83	1.16	PO9	PO10	PO11	1.83
C304	3	2.4	2.5	2.67	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.75
C305	2.83	2.4	2.6	2	PO5	PO6	2.5	PO8	PO9	PO10	PO11	PO12
C306	3	2.5	2.16	2.33	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307	2.66	2.83	2.5	2.3	2.33	PO6	PO7	PO8	2.66	2	2.83	2.83
C308	3	3	3	3	3	PO6	PO7	PO8	3	3	PO11	3
C309	3	2	3	PO4	PO5	2	2	PO8	PO9	3	2	2
C310	3	2	1	2	3	PO6	2	PO8	PO9	PO10	PO11	2
C311	3	2	1	2	3	PO6	2	PO8	PO9	PO10	PO11	2
C315	3	3	PO3	PO4	PO5	PO6	PO7	PO8	1	1	PO11	PO12

C316	PO1	PO2	1	2	PO5	PO6	3	PO8	1	1	3	PO12
C317	PO1	PO2	1.2	2	PO5	PO6	3	PO8	1	2	3	2
C318	3	3	3	2.8	2.67	PO6	PO7	PO8	PO9	PO10	PO11	3
C319	3	2.83	2.5	2.33	2.25	PO6	PO7	PO8	PO9	PO10	PO11	3
C322	3	3	1.4	2.5	2	2.3	PO7	PO8	PO9	PO10	PO11	3
C323	3	3	3	3	3	PO6	PO7	PO8	PO9	PO10	PO11	3
C324	3	2.6	3	3	3	2	2.33	PO8	PO9	PO10	PO11	3
C325	3	3	PO3	PO4	PO5	3	3	PO8	3	3	PO11	3
C327	3	2	1	2	3	PO6	2	PO8	PO9	PO10	PO11	2
C332	3	2	3	PO4	PO5	2	2	PO8	PO9	3	2	2
C401	PO1	PO2	PO3	PO4	PO5	1	3	PO8	3	3	PO11	2
C402	3	3	3	3	3	2	3	PO8	PO9	PO10	PO11	PO12
C403	3	3	3	3	3	3	PO7	PO8	PO9	PO10	PO11	2.33
C404	3	2.7	2.8	3	3	PO6	3	PO8	3	PO10	PO11	3
C405	3	3	3	3	3	PO6	3	PO8	PO9	3	3	3
C406	3	3	3	3	3	2.8	2.6	PO8	PO9	PO10	2.5	3
C408	3	3	2.75	2.6	2.5	PO6	PO7	PO8	PO9	PO10	PO11	2.5
C409	3	3	3	3	3	PO6	3	PO8	3	PO10	PO11	3
C410	2.33	2.33	2.5	1.67	2	1.5	2	1	3	2.67	2	1.5
C411	2.33	2.33	2.5	1.67	2	1.5	2	1	3	2.67	2	1.5
C413	3	2	1	2	3	PO6	2	PO8	PO9	PO10	PO11	2
C416	3	2	3	PO4	PO5	2	2	PO8	PO9	3	2	2
C417	PO1	PO2	PO3	PO4	PO5	2.25	3	PO8	2	2	2	3
C418	PO1	PO2	PO3	PO4	PO5	2	2.2	PO8	2.5	1.33	3	3
C419	2.5	2	2.4	2	PO5	PO6	PO7	PO8	PO9	PO10	2	2.4
C422	3	3	3	2.6	2.8	3	3	PO8	2	PO10	PO11	3
C425	2.33	2.33	2.5	1.67	2	1.5	2	1	3	2.67	2	1.5
C431	PO1	PO2	1	2	PO5	PO6	3	PO8	1	1	3	PO12

Course	PSO1	PSO2
C101	1	1.25
C102	2	PSO2
C103	PSO1	2
C104	1	PSO2
C105	1.5	PSO2
C106	1	1
C107	3	1.5
C109	1.25	1
C110	1.83	PSO2
C111	2	1
C112	2	1
C113	1.2	2
C114	PSO1	1.5
C115	2	PSO2
C116	1.5	PSO2

C201	1.83	PSO2
C202	2.4	2.66
C203	3	3
C204	1	1
C205	1	1
C206	3	PSO2
C207	1	1
C208	2.8	3
C210	3	3
C211	PSO1	PSO2
C212	2.6	2.67
C213	2	2
C214	3	3
C215	3	3
C216	2	2
C217	3	3
C301	3	3
C302	3	3
C303	1	1
C304	1.33	1.75
C305	2	2.33
C306	2	2.16
C307	3	3
C308	3	3
C309	1	3
C310	2	2
C311	2	2
C315	1.66	1
C316	PSO1	PSO2
C317	PSO1	PSO2
C318	2.67	2.6
C319	2	2.33
C322	2.25	2.5
C323	3	3
C324	3	2
C325	PSO1	3
C327	2	2
C332	PSO1	PSO2
C401	PSO1	PSO2
C402	3	3
C403	3	2.17
C404	3	3
C405	3	3
C406	3	3

C408	2.25	2.5
C409	3	3
C410	3	2.67
C411	3	2.67
C413	2	2
C416	PSO1	PSO2
C417	PSO1	PSO2
C418	PSO1	PSO2
C419	2	1.5
C422	2.8	2.6
C425	3	2.67
C431	PSO1	PSO2

3.2 Attainment of Course Outcomes (75) Total Marks 75.00

Institute Marks : 10.00

The first step in the calculation of the course attainments is to identify the tools that contribute to the attainment of a course. The processes and tools used for the calculation of course outcomes explained here apply to GN-R-18 regulation courses. The following list is identified as a competent set of tools to calculate the course attainment.

Direct CO Attainment based on

1. Semester End Examinations (SEE)
2. Continuous Internal Evaluation (CIE)
    a. Mid Term Examination
    b. Assignments
3. Mini Projects
4. Major Projects
5. Technical Seminars

Indirect CO Attainment based on

1. Course End Survey

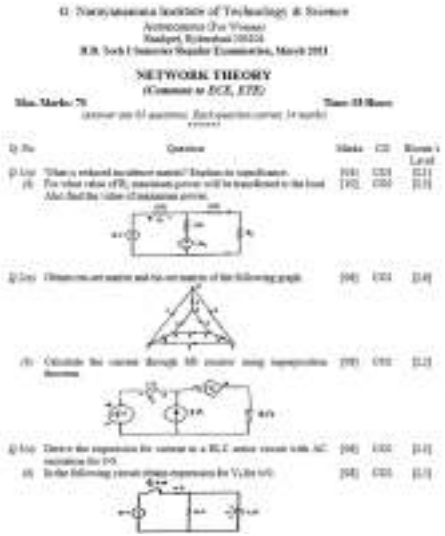
TOOLS USED FOR MEASUREMENT OF DIRECT CO ATTAINMENT

The attainment of these Course Outcomes of each course is measured based on the performance of the student at various levels by different assessment tools. The assessment tools and the frequency at which these assessments are performed are listed in Table 3.2.1.1.

Table 3.2.1.1: Different Assessment Tools and the Frequency of Evaluation

S. No	Assessment Tools	Frequency of Evaluation
1.	Evaluation of Laboratory Course a. Internal Evaluation b. Internal Exam c. Semester End Examination	 Twice per semester Twice per semester Once per semester
2.	Evaluation of Laboratory Course a. Internal Evaluation b. Internal Exam c. Semester End Examination	 Continuous Internal Evaluation Twice per semester Once per semester
3.	Major Project a. Project Review Committee b. Internal Guide Evaluation c. External Evaluation	 Four times per Project Twice per Project Once per Project
4.	Mini Projects a. External Evaluation	 Once per Project
5.	Technical Seminars a. Project Review Committee	 Once during the Program

Theory Course (100M): Each Theory is evaluated for 100 marks which is distributed as 70 marks for Semester End Examination (SEE) and the other 30 marks (including an assignment of 5 marks) is obtained by taking average of 2 Mid Term Examinations conducted during the semester. Each question of the question paper in Semester End Examination, Mid Term Examination and Assignment are mapped to the respective Course Outcomes as shown in Figs. 3.2.1.1, 3.2.1.2, 3.2.1.3. The mapping of the outcomes will help in the evaluation of attainment process as explained later in Criteria 3.2.2. The mapping tables for both external and internal question papers are shown in Table 3.2.1.2 and Table 3.2.1.3.



G. Narayanamma Institute of Technology & Science

(Autonomous for Women)

Shaikpet, Hyderabad-500104

B.E. 3rd I Semester Regular Examinations, March 2021

NETWORK THEORY

(Common to ECE, ETE)

Max. Marks: 70 Time: 03 Hours

(answer any 05 questions. Each question carries 14 marks)

Q. No	Question	Marks	CO	Bloom's Level
1) (a)	What is reduced incidence matrix? Explain its significance.	[9]	CO3	L3,L1
(b)	For what value of R_L maximum power will be transferred to the load. Also find the value of maximum power.	[5]	CO3	L3,L1
2) (a)	Obtain tie-set matrix and cut-set matrix of the following graph.	[9]	CO3	L3,L4
(b)	Calculate the current through 8Ω resistor using superposition theorem.	[5]	CO3	L3,L4
3) (a)	Derive the expression for current in a RLC series circuit with AC excitation for I/P.	[9]	CO3	L3,L1
(b)	In the following circuit obtain expression for V_2 for t>0.	[5]	CO3	L3,L1

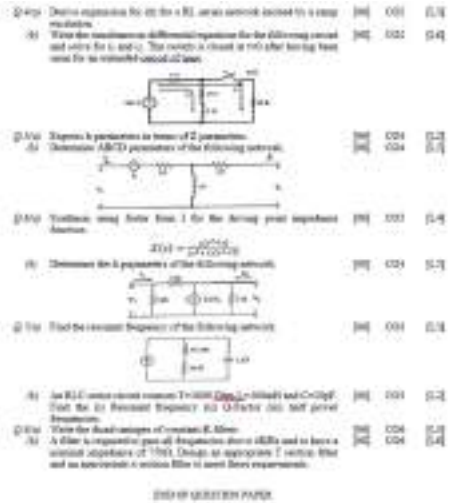


Fig. 3.2.1.1: External Examination Question Paper Sample

Table 3.2.1.2: Question wise Mapping to COs for External Examination

COURSE OUTCOMES	QUESTION NUMBERS AND RESPECTIVE MARKS		TOTAL MARKS (112)	%
	Question	Marks		
CO 1	1a,2a	4+6	10	8.92%
CO 2	1b,2b,3a,3b,4a,4b	10+8+6+8+6+8	46	41.09%
CO 3	7a,7b	6+8	14	12.5%
CO 4	5a,5b,6b	6+8+8	22	19.64%
CO 5	6a	6	6	5.35%
CO 6	8a,8b	6+8	14	12.5%

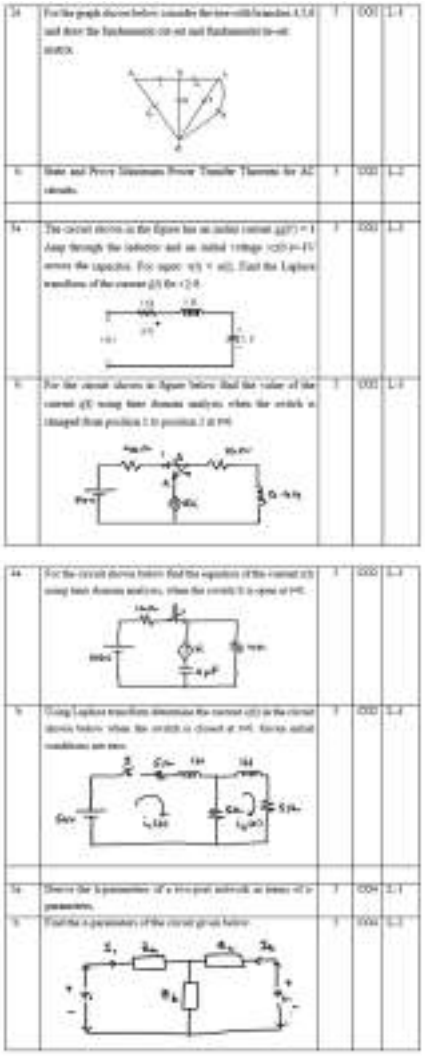


Fig. 3.2.1.2: Mid Term Examination Question Paper Sample

Table 3.2.1.4: Question wise Mapping to COs for Mid Term Examination

COURSE OUTCOMES	QUESTION NUMBERS		RESPECTIVE MARKS		ASSIGNMENT	TOTAL MARKS	%
	Objective	Subjective	Objective	Subjective			
CO 1	1E	4a	1	3		4	10%
CO 2	-	-	-	-	-	-	-
CO 3	1F,1G,1H	4b,5a,5b	3	7		10	25%
CO 4	-	-	-	-	-	-	-
CO 5	1I,1J	6a,6b	2	5	2	9	22.5%
CO 6	1A,1B,1C,1D	2,3a,3b	4	10	3	17	42.5%

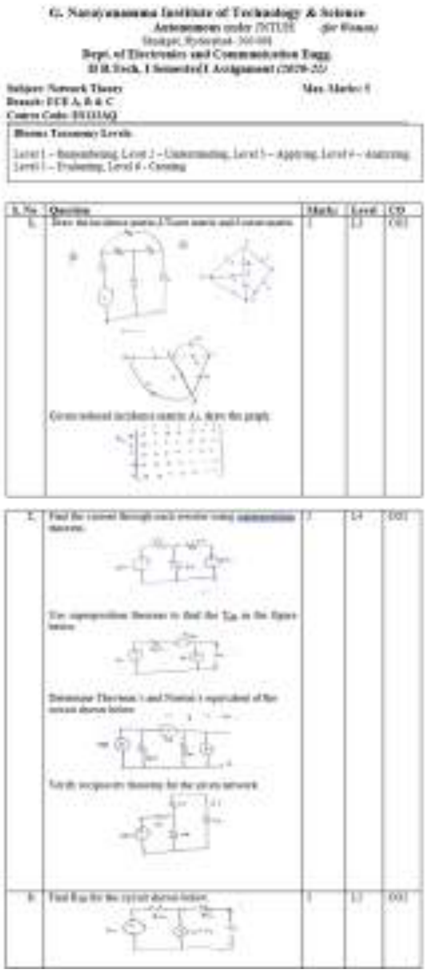

Subject: Network Theory	Max. Marks: 5
Branch: ECE A, B & C

Fig. 3.2.1.3: Assignment Question Paper Sample

Laboratory (100M): Each Laboratory is evaluated for 100 marks out of which 70 marks is for the Semester End Examination and 30 marks of the continuous Internal Evaluation is further split into 10 marks for record and observation which is calculated as an average of the marks obtained for each experiment, 5 marks for experiment based Viva/Quiz which is calculated as an average of the marks obtained from the viva/quiz marks conducted throughout the semester and 15 marks for the Lab Internal Examination conducted once/ twice during the semester.

Mini Project (100M): The Mini Project is evaluated for 100 marks. The Mini-Project work is submitted as a report and a presentation of the same is made before a committee. The assessment is done via performance parameters that are designed to meet the requirements for Mini Project. Evaluation of the project is conducted by a committee comprising of an External Examiner, the Head of the Department, and the Project Supervisor at the end of the IV Year I Semester, before the commencement of SEE theory examinations. These components are mapped to COs for attainment computation.

Major Project: The Project Work is divided and carried out in 2 phases: Phase – I (Project-I) during IV Year I Semester, and Phase – II (Project-II) during IV Year II Semester, and the students prepare two independent Project Work Reports – one each during each phase.

First Report includes the Project Work carried out under Phase – I, and the Second Report (Final Report) includes the Project Work carried out under Phase – I and Phase – II put together. Phase – I and Phase – II of the Project Work is evaluated for 100 marks each. Out of the total 100 marks allotted for each Phase of the Project Work, 30 marks are for the CIE and 70 Marks are for the End Semester Viva-Voce Examination/SEE).

The 20 Marks earned under CIE for both Phases of the Project are awarded by the Project Guide/Supervisor (based on the continuous evaluation of student's performance during the two Project Work Phases) using the rubrics shown in Fig. 3.2.1.4, 30 Marks are awarded by the Project Review Committee (based on student's performance in the Project Status Presentations conducted throughout the year) using rubrics shown in Fig. 3.2.1.5 and 3.2.1.6. For the remaining 150 marks a Semester End Evaluation for the Project Phase - I is conducted at the end of the IV Year I Semester, before the commencement of the SEE, at the Department Level by a Committee comprising of the HOD or One Professor and Supervisor (no external examiner), and for the Project Phase – II is conducted by a Committee comprising of an External Examiner, the Head of the Department, and the Project Supervisor at the end of the IV Year II Semester, before the commencement of SEE theory examinations. These components are mapped to COs for attainment computation.

Fig. 3.2.1.4: Rubrics for Evaluation of Major Project Performance by Internal Guide

Fig. 3.2.1.5: Rubrics for Evaluation of Major Project Performance by PRC 1

Fig. 3.2.1.6: Rubrics for Evaluation of Major Project Performance by PRC 2

Technical Seminar (100M): The Technical Seminar is evaluated for 100 marks in the III Year II Semester of the B.Tech Program. The evaluation or assessment is done via performance parameters that are designed to meet the requirements of the Seminar. The allotment of the marks under these performance parameters is mapped via a rubric. These parameters are mapped to the Course Outcomes for measurement of attainments. The rubrics are as shown as in Fig. 3.2.1.7.

Fig. 3.2.1.7: Rubrics for Evaluation of Seminar Performance

TOOLS USED FOR MEASUREMENT OF INDIRECT CO ATTAINMENT

Indirect Course Attainment: The Indirect attainment for all courses is obtained with the help of a Course End Survey form as shown in Fig. 3.2.1.8, which is a questionnaire that is sent by the respective instructor after the completion of the course to all the students. Each question of the questionnaire is framed to enable the student to understand her level of competency in terms of each CO. The students answer the questions based on their perception of how well they have attained the knowledge of a particular course in terms of the Course Outcomes (COs). The levels of understanding for each question are quantified on a scale of 1 to 5 with 1 being Satisfactory understanding and 5 being Excellent understanding.

Network Theory (C202) Course End Survey Academic Year 2020-21, Batch 2019-23

CO1 Recognize the concepts of RMS, Average values.
CO2 Analyze the given network using Thevenin, Tellegen, Laplace transform and Network topology.
CO3 Distinguish between Series and Parallel resonance.
CO4 Classify a given network in terms of different two port network parameters.
CO5 Develop the network from the Network functions.
CO6 Design different Passive filters.

The above are the course outcomes of the subject **Network Theory**, a course which is a part of the B.Tech curriculum in the 3rd Year 1 semester for B. Tech.(UT Programme. The student are requested to answer the questions below based on their perception of how well they have attained the knowledge of the course NETWORK THEORY in terms of the Course Outcomes (COs). The levels of understanding for each question are qualified as **Satisfactory** corresponding to **Level 1 of the attainment**, **Average** corresponding to level 2, **Good** corresponding to **Level 3 of attainment**, **Very Good** corresponding to level 4, **Excellent** corresponding to **Level 5**.

Roll Number*

Name of the Student*

1.By the end of the course how well could you recognize and understand the concepts of RMS, Average Values? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

2.By the end of the course how well could you analyze the given network using Thevenin, Tellegen, Laplace transform and Network topology? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

3. By the end of the course how well could you distinguish between Series and Parallel resonance? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

4.By the end of the course how well could you classify a given network in terms of different two port network parameters? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

5. By the end of the course how well could you develop the network from the Network functions? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

6. By the end of the course how well could you design different Passive filters? *
Excellent (5)
Very Good (4)
Good (3)
Average (2)
Satisfactory (1)

Fig. 3.2.1.8: Course End Survey Sample Questionnaire

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65) Institute Marks : 65.00

COPO Mapping

To begin with, all the courses in the program of GN-R-18 regulation are identified and each course is assigned a course code. In accordance with the course syllabus, Course Outcomes (measurable statements that are an indication of the knowledge, skills, and attitudes learners will demonstrate by the completion of a course) are framed by a subject expert group consisting of faculty who have handled the course, headed by a Course Co-ordinator. Course Outcomes for Network Theory course offered in 2nd Yr 1st Semester of GN-R-18 regulation is shown in Table 3.2.2.1.

Table 3.2.2.1: Course Outcomes for Network Theory (C202), II/IV B. Tech I Semester, GN-R-18

C202.1	Define the basic Network terminology, Kirchoff's Laws.
C202.2	Analyze the given network using Theorems, Transient, Laplace transform and Network topology.
C202.3	Distinguish between Series and Parallel resonance.
C202.4	Classify a given network in terms of different two port network parameters.
C202.5	Develop the network from the Network functions.
C202.6	Design different Passive filters.

Measuring CO attainment through Internal and External Examinations (CO Direct Attainment)

For example, the questions of Internal Examination-1 may relate to CO2 and CO4 and the questions of Internal Examination-2 may relate to CO1, CO3, CO5 and CO6. CO attainment is evaluated based on the questions that correspond to a particular CO. Each CO attainment evaluation is done by computing the average of the marks attained by all the students for the questions that are mapped to the corresponding CO. For example, Q1 to Q4 correspond to CO2 and Q5 corresponds to CO4. To compute the average attainment of CO2, the percentage of marks obtained by each student for CO1 is calculated. The percentage of attainment for each question is calculated for all the students in the class which is obtained by the formula:

Percentage of attainment (Question wise) = B / A X 100

where A= Class Strength X Max. marks for each question,

B = Marks scored by all students for each question.

The same process is done for each question addressing CO2.

Now, For CO2, percentage of the average value of CO2 is calculated by **(Total B / Total A) X 100 X 0.6**

Total B = Total marks obtained by all the students for the questions of CO1

Total A = Total maximum marks of all the questions of CO1

The value 0.6 is obtained by simplifying 30/50 where 30 marks are to be answered from 50 marks of question paper.

Next, the number of students above the threshold value is taken and the percentage of students above the threshold value for CO2 is calculated. Similar process is done for other COs of internal exam-1 question paper. The percentages are then mapped to attainment levels based on Table 3.2.2.2. An example calculation process for attainment of mid term examination is shown in Table 3.2.2.3.

Table 3.2.2.2: Attainment Levels for Percentage of Students Above the Threshold for Mid Term Examinations

Percentage of students above set threshold	Attainment Level
Below 60%	Level 0
60% - 70%	Level 1
70% - 80%	Level 2
Above 80%	Level 3

Table 3.2.2.3: Attainment Process for II/IV B. Tech I Semester (A Section), Network Theory Mid Term Examination I

	Course Outcome 2								**Course Outcome 4**		**Consolidated marks (%) of students in each CO = Marks obtained / Max. Marks**	
Parameters	**1a**	**1b**	**2a**	**2b**	**3a**	**3b**	**4a**	**4b**	**5a**	**5b**	**CO2**	**CO4**
Max Marks	**5.0**	**5.0**	**2.0**	**8.0**	**5.0**	**5.0**	**5.0**	**5.0**	**2.0**	**8.0**	**40.0**	**10.0**
19251A0401	3.0	3.0	0.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**35.0**	**100.0**
19251A0402	1.0	4.0	0.0	0.0	1.0	1.0	0.0	0.0	2.0	3.0	**17.5**	**50.0**
19251A0403	2.5	5.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	2.0	**43.8**	**40.0**
19251A0404	2.5	3.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**38.8**	**100.0**
19251A0405	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0406	2.5	3.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**38.8**	**100.0**
19251A0407	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	2.0	8.0	**17.5**	**100.0**
19251A0408	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	6.0	**41.3**	**80.0**
19251A0409	2.5	3.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**38.8**	**100.0**
19251A0410	2.5	5.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0	**23.8**	**30.0**
19251A0411	2.5	2.5	2.0	8.0	2.0	2.0	0.0	0.0	2.0	4.0	**47.5**	**60.0**
19251A0412	0.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.5	0.0	**15.0**	**5.0**
19251A0413	5.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	1.5	0.0	**32.5**	**15.0**
19251A0414	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**

19251A0415	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0416	2.5	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	**23.8**	**0.0**
19251A0417	2.5	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	**17.5**	**80.0**
19251A0418	1.0	4.0	2.0	8.0	0.0	0.0	0.0	0.0	0.0	8.0	**37.5**	**80.0**
19251A0419	1.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**35.0**	**100.0**
19251A0420	2.5	4.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	8.0	**21.3**	**100.0**
19251A0421	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0422	2.5	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**23.8**	**0.0**
19251A0423	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0424	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	1.5	8.0	**37.5**	**95.0**
19251A0425	2.5	2.5	2.0	1.0	1.5	0.0	0.0	0.0	2.0	8.0	**23.8**	**100.0**
19251A0426	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0427	2.0	4.0	2.0	4.0	0.0	0.0	0.0	0.0	2.0	8.0	**30.0**	**100.0**
19251A0428	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0429	2.5	2.0	2.0	8.0	1.0	0.0	0.0	0.0	2.0	0.0	**38.8**	**20.0**
19251A0430	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0431	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0432	2.5	4.0	2.0	4.0	0.0	0.0	0.0	0.0	2.0	3.0	**31.3**	**50.0**
19251A0433	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	6.0	**37.5**	**80.0**
19251A0434	1.0	4.0	1.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	**25.0**	**0.0**
19251A0435	1.0	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0436	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	1.0	0.0	**37.5**	**10.0**
19251A0437	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0438	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0439	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	1.0	8.0	**37.5**	**90.0**
19251A0440	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	1.0	8.0	**41.3**	**90.0**
19251A0441	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	0.0	**41.3**	**20.0**
19251A0442	2.5	4.0	2.0	4.0	0.0	0.0	0.0	0.0	2.0	8.0	**31.3**	**100.0**
19251A0443	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	3.0	**41.3**	**50.0**
19251A0444	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**41.3**	**100.0**
19251A0445	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	1.0	8.0	**41.3**	**90.0**
19251A0446	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	0.0	8.0	**37.5**	**80.0**
19251A0447	0.0	4.0	2.0	4.0	0.0	0.0	0.0	0.0	2.0	8.0	**25.0**	**100.0**
19251A0448	0.0	2.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**30.0**	**100.0**
19251A0449	0.0	4.0	2.0	6.0	0.0	0.0	0.0	0.0	2.0	5.0	**30.0**	**70.0**
19251A0450	1.0	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**37.5**	**100.0**
19251A0451	0.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	8.0	**15.0**	**80.0**
19251A0452	0.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	**15.0**	**40.0**
19251A0453	0.0	4.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	8.0	**30.0**	**80.0**
19251A0454	2.0	5.0	2.0	1.0	0.0	2.0	0.0	0.0	2.0	1.0	**30.0**	**30.0**
19251A0455	0.0	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	4.0	**35.0**	**60.0**
19251A0456	2.5	4.0	2.0	5.0	0.0	0.0	0.0	0.0	2.0	8.0	**33.8**	**100.0**
19251A0457	2.5	2.5	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	**17.5**	**20.0**
19251A0458	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	1.0	8.0	**37.5**	**90.0**
19251A0459	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	0.0	**37.5**	**20.0**
19251A0460	2.5	4.0	2.0	8.0	0.0	0.0	0.0	0.0	2.0	7.0	**41.3**	**90.0**
20255A0401	0.0	0.0	2.0	1.0	1.0	2.0	0.0	1.0	0.0	0.0	**17.5**	**0.0**
20255A0402	2.5	2.5	2.0	2.0	0.0	0.0	0.0	0.0	2.0	1.0	**22.5**	**30.0**
20255A0403	5.0	2.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	**25.0**	**0.0**
20255A0404	0.0	0.0	2.0	8.0	0.0	0.0	2.0	1.0	2.0	5.0	**32.5**	**70.0**
20255A0405	1.0	2.0	2.0	5.0	0.0	0.0	0.0	0.0	2.0	2.0	**25.0**	**40.0**
20255A0406	0.0	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	8.0	**31.3**	**100.0**
20255A0419	2.5	2.5	2.0	8.0	0.0	0.0	0.0	0.0	2.0	0.0	**37.5**	**20.0**
Class Strength	**67**											

Class Strength * Max. marks (A)	335	335	134	536	335	335	335	335	134	536		
Marks Scored (B)	134.0	218	124.0	386.0	6.5	7.0	2.0	3.0	106.5	351.0		
% of attainment (Question wise) (B/A*100)	40	65.07	92.53	72.01	1.94	2.09	0.59	0.9	79.48	65.49		
Avg value in % of each CO (Sum of B/Sum of A)	**32.9**								**68.3**			
Normalized Avg value in % of each CO (C*30/50)	**19.7**								**41.0**			
No. of students above Threshold level for each CO	**59.0**								**48.0**			
% of students above Threshold level for each CO	**88.1**								**71.6**			
Attainment level COs wise	**Level 2**								**Level 1**			
Overall Attainment Level	**79.9**										**Level 2**	

The same process is followed for Mid Term Examination 2 and a consolidated attainment of both the exams for all the sections is computed to get the overall Internal Attainment for all COs and Overall CO Internal Attainment for Network Theory which is shown in Table 3.2.2.4.

Table 3.2.2.4: CO Internal Attainment for II/IV B. Tech, I Semester, Network Theory Mid Term Examination

	Section A (% Attainment)			Section B (% Attainment)			Section C (% Attainment)			Course Average
	1st Mid	2nd Mid	Average	1st Mid	2nd Mid	Average	1st Mid	2nd Mid	Average	
CO1		46.30	46.30		66.70	66.70		70.10	70.10	61.03
CO2	88.10		88.10	87.90		87.90	97.00		97.00	91.00
CO3		53.70	69.70		51.50	51.50		52.20	52.20	57.80
CO4	71.60		71.60	72.70		72.70	68.20		68.20	70.83
CO5		70.10	70.10		47.00	47.00		56.70	56.70	57.93
CO6		64.20	64.20		74.20	74.20		74.60	74.60	71.00
Section wise CO Attainment	-	-	68.33			66.67			69.8	68.3
Overall CO Attainment	68.3						Level 1			

For External Examinations, the procedure is the same except that the mapping of percentage of students obtaining marks above the threshold to attainment are different as shown in Table 3.2.2.5. The Consolidated CO External attainment is calculated as shown in Table 3.2.2.6.

Table 3.2.2.5: Attainment Levels for Percentage of Students Above the Threshold for External Examination

Percentage of students above set threshold	Attainment Level
Below 45%	Level 0
45% - 60%	Level 1
60% - 75%	Level 2
Above 75%	Level 3

Table 3.2.2.6: CO External Attainment for II/IV B. Tech, I Sem, Network Theory, External Examination

Course Outcome	Section A, B, C (% Attainment)
CO1	67.9
CO2	56
CO3	72.3
CO4	100
CO5	96.2
CO6	54.1
Average CO Attainment	74.4
Overall CO External Attainment Level	Level 2

The total CO direct attainment is obtained by taking 75% of the external attainment level and 25% of the midterm attainment level.

Measuring CO attainment through Course End Survey (CO Indirect Attainment)

To calculate the CO Indirect Attainment the responses obtained from the students via a course end survey are averaged for each question and it is converted to a percentage as shown in Table 3.2.2.7. The percentages are then mapped to Attainment Levels as shown in Table 3.2.2.8.

Table 3.2.2.7: Course End Survey Responses for II/IV B. Tech, I Sem, Network Theory

Roll Number	Name of the Student	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6

19251A0435	Mamindla Amulya	5	5	5	5	5	5
19251A0427	Kamireddy Keertimayee	4	3	4	4	4	4
19251A0406	B. Prashamsa	3	3	4	3	3	3
19251A0450	Spoorthi G Kunch	2	2	3	3	3	3
19251A0438	Mukkisa Pranathi	5	4	4	3	3	3
19251A0459	Vadithavath Akanksha	5	5	5	5	5	5
20255A0401	Bonala Likhitha	5	5	5	5	5	5
19251A0451	Pranati Tantravahi	4	4	4	4	4	4
19251A0409	Chavva Kiranmai	5	5	5	5	5	5
19251A0458	Shreshta Vennamaneni	4	5	5	4	3	3
19251A0417	Ganta Srivani	4	4	4	4	4	4
19251A0430	Katkoori Preethi	3	2	3	3	3	3
19251A0453	Thiramdasu Sucharitha	5	5	4	4	4	4
19251A0428	K. Preethi lilly	3	3	3	3	3	3
19251A0445	Priyanka	2	3	1	1	1	1
19251A0422	Hoyasala Devi K	5	5	3	1	3	5
19251A0403	Alekhya Pathak	5	5	5	4	5	5
19251A0429	K.Manusha	4	4	4	4	4	4
19251A0433	Lekhya Bayya	5	5	4	5	4	5
19251A0460	Varala Namitha Patel	4	3	4	4	4	4
19251A0456	Likitha Reddy	5	5	4	4	5	5
19251A0405	B. Sathvika	5	5	5	5	5	5
19251A0421	Juluri Anusha	5	5	5	5	5	5
20255A0405	Kunchala Hemavathi	5	5	5	5	5	5
Indirect Course Attainment (C202)		**82.86**	**80.95**	**79.05**	**74.29**	**76.19**	**79.05**

Table 3.2.2.8: Attainment Levels for Percentage Student Response for CO Indirect Attainment

Percentage Student Response	Attainment Level
Below 60%	Level 0
60% - 70%	Level 1
70% - 80%	Level 2
Above 80%	Level 3

The overall CO attainment is obtained by taking 80% of CO direct attainment level and 20% of CO indirect attainment level. Overall CO attainment calculation for a sample subject is shown in Table 3.2.2.9.

Similar processes are used for calculation of attainments for Laboratories, Technical Seminars and Mini/Major Projects with minor adjustments wherever necessary based on the change in the evaluation criteria.

CO Attainments for all subjects are listed in Table 3.2.2.10.

Table 3.2.2.9: Overall CO Attainment for II/IV B. Tech, I Sem, Network Theory

	CO1	CO2	CO3	CO4	CO5	CO6	**CO Attainment**
Internal Attainment	61.00	91.00	52.50	70.80	57.90	71.00	
Internal Attainment Level	1.00	3.00	0.00	2.00	0.00	2.00	
25% of the Internal Level	0.25	0.75	0.00	0.50	0.00	0.50	
External Attainment	64.10	60.10	61.60	80.30	77.30	43.40	
External Attainment Level	2.00	2.00	2.00	3.00	3.00	0.00	
75% of the External Level	1.50	1.50	1.50	2.25	2.25	0.00	
CO Direct Attainment Level	1.75	2.25	1.50	2.75	2.25	0.50	
80% of CO Direct Attainment Level	1.40	1.80	1.20	2.20	1.80	0.40	
CO Indirect Attainment	82.86	80.95	79.05	74.29	76.19	79.05	
CO Indirect Attainment Level	3.00	3.00	2.00	2.00	2.00	2.00	
20% of CO Indirect Attainment Level	0.60	0.60	0.40	0.40	0.40	0.40	
Overall CO Attainment	**2.00**	**2.40**	**1.60**	**2.60**	**2.20**	**0.80**	**1.93**
Overall CO Attainment	1.93						

Table 3.2.2.10: CO Attainment for all Courses for 2019-23 Batch

Subject Code for NBA	**Subject Name**	0.80*Direct Attainment + 0.20*Indirect Attainment						Consolidated CO Attainment
		CO1	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**	
1st Year								
C101	Physics	2.92	2.12	2.94	2.96	1.29	1.92	2.36
C102	Linear Algebra and Multivariable Calculus	2.94	2.93	2.9	2.9	1.25	0.23	2.19
C103	Programming for Problem Solving	2.96	2.11	2.92	1.26	2.9	2.75	2.48
C104	Engineering Graphics	0.4	2.97	2.08	2.91	2.97	2.78	2.35
C105	Engineering Workshop	2.1	2.1	2.1	2.1	2.1	2.1	2.10
C106	Physics Lab	2.12	2.12	2.12	2.12	2.12	2.12	2.12
C107	Programming Lab	2.1	2.1	2.1	2.1	2.1	2.1	2.10
C109	Chemistry	2.99	1.29	2.98	0.48	0.46	0.2	1.40
C110	Numerical Techniques and Transform Calculus	2.14	2.97	2.97	1.31	1.29	0.2	1.81

C111	English	2.98	2.91	0.47	2.96	2.96	1.93	2.37
C112	Basic Electrical Engineering	2.1	2.96	1.29	0.48	2	1	1.64
C113	Chemistry Lab	2.11	2.11	2.11	2.11	2.11	2.11	2.11
C114	English Professional and Communication Skills Lab	1.97	1.97	1.97	1.97	1.97	1.97	1.97
C115	Basic Electrical Engineering Lab	1.25	1.25	1.25	1.25	1.25	1.25	1.25
C116	Computational Mathematics Lab	1.29	1.29	1.29	1.29	1.29	1.29	1.29
2nd Year								
C201	Mathematical Analysis	2	3	3	1	3	3	2.50
C202	Network Theory	1.8	1.6	1.4	2.4	2	1.2	1.73
C203	Electronic Devices and Circuits	2.6	2.4	1.4	0.2	0.8	2	1.57
C204	Signals and Systems	3	2.4	2.4	1.2	1.8	2.4	2.20
C205	Digital System Design	2.8	1.6	2.4	1	0.8	1.4	1.67
C206	Electronic Circuits Lab	2.4	2.2	2.2	2.2	2.2	2.2	2.23
C207	Basic Simulation Lab	3	2.4	2.4	2.4	2.4	3	2.60
C208	Digital System Design Lab	2.2	2.2	2.2	2.2	2.2	2.6	2.27
C210	Probability Theory & Stochastic Processes	1	1	1	1	1	1	1.00
C211	Material Science	3	3	3	3	3	3	3.00
C212	Analog Circuits	2.2	1	2	1.6	1.8	0.4	1.50
C213	Analog & Digital Communications	0.4	2.2	2.2	2	0.2	2.2	1.53
C214	Microprocessors & Microcontrollers	2.4	2	1.4	1	1.4	0.2	1.40
C215	Analog Circuits Lab	2	2.2	2.2	2.2	2.2	2.6	2.23
C216	Analog & Digital Communications Lab	2.2	2.2	2.2	1.6	2.2	2.2	2.10
C217	Microprocessors & Microcontrollers Lab	2.4	2	2	2	2	2.6	2.17
3rd Year								
C301	VLSI Design	2.6	2.6	2	0.2	0.2	0.2	1.30
C302	Digital Signal Processing	2	2.2	2.2	1.6	1		1.80
C303	EM Theory and Transmission Lines	2.5	2.6	0.8	2.6	0.8	2	1.88
C304	Computer Organization	2.2	2.2	2.2	1.6	2.6	0.2	1.83
C305	Electronic Measurements and Instrumentation	1.4	0.6	1	0.6	2	1.4	1.17
C306	Information Theory and Coding	2	1.2	2.6	2	1.4	0.4	1.60
C307	Digital Signal Processing Lab	2	2.2	2.2	1.6	1		1.80
C308	e-CAD and VLSI Lab	2.6	2.4	2.2	2.2	2.2	2.6	2.37
C309	Employability and Soft Skills Lab	2	3	3	3	3	3	2.83
C310	Fundamentals of Data Structures	3	2	2	3	3	3	2.67
C311	Java Programming	1	1	2	2	0	3	1.50
C315	Introduction to Data Analytics	3	2	1	3	3	3	2.50
C316	Disaster Management	3	3	1	0	3	3	2.17
C317	Managerial Economics and Financial Analysis	2	2	3	2	3	3	2.50
C318	Principles of Computer Networks	2.6	2.2	1.8	1.4	2	2	2.00
C319	Linear Control Systems	2.6	2.2	1.8	0.2	0.2	1.2	1.37
C322	Bio-Medical Electronics	3	1	2.8	0.8	1.8	0.8	1.70
C323	Computer Networks Lab	2	2.6	2.6	2.6	2.6	2.6	2.50
C324	Electronic Design Lab	2.4	2.6	2.6	2.6	2.6	2.4	2.53
C325	Seminar	3	3	3	3	3	3	3.00
C327	Database Management Systems	3	3	1	3	3	0	2.17
C332	Behavioral Skills and Professional Communication	1	1	3	3	3	2	2.17
4th Year								
C401	Fundamentals of Management	3	3	1	0	3	3	2.17
C402	Microwave Engineering	2.4	2.6	2	2.6	2	2.4	2.33
C403	Digital Image and Video Processing	2.8	2.8	2.4	2.4	2.8	1.6	2.47
C404	Low Power VLSI Design	2.8	2.8	2	2.4	1.4	2.8	2.37
C405	Principles of Wireless Communications	2.6	2	2	2	2	1.4	2.00
C406	Artificial Intelligence	2.6	2.8	2.8	2.4	2.2	1.2	2.33
C408	Embedded System Design	2.8	1.6	2.8	2.6	2.8	2.6	2.53
C409	Microwave Engineering Lab	2	2.2	2.2	2.2	2.2	2.2	2.17
C410	Mini Project	3	3	3	3	3	3	3.00
C411	Project Phase I	3	3	3	3	3	3	3.00
C413	Python Programming	1	2	2	2	2	2	1.83
C416	Waste Management Techniques and Power Generation	3	3	3	1	3	3	2.67
C417	Industrial Management	3	3	1	0	3	3	2.17
C418	Entrepreneurship and Project Management	3	3	2	2	0	2	2.00
C419	Global Navigation Satellite Systems	2.6	2.2	2.6	2.6	2.8	2.8	2.60
C422	Internet of Things	2.8	2.6	2.2	2.6	2.4	2.2	2.47
C425	Project Phase II	2.8	3	3	3	3	3	2.97
C431	Environment Impact Assessment	3	3	2	2	0	2	2.00

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75) Total Marks 75.00

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

Institute Marks : 10.00

Fig 3.3.1.1: The Attainment Process of PO/PSO

Process of Attainment of Program Outcome/Program Specific Outcome:

Program outcomes are the statements that indicate the ability of the students by the end of the program. These relate to the skills, knowledge, and behaviour that students acquire through the program. In addition to the Program Outcomes additional Program Specific Outcomes can be identified to determine the specific objectives/abilities that the student may achieve by the end of a specific program. The Program outcomes/Program Specific Outcomes are calculated for every batch of the students that graduate. The procedure of calculating the PO attainment is based on the CO attainments through the CO-PO mapping and indirect PO attainments. The identified assessment tools for the Program Outcomes/Program Specific Outcomes can be further classified as:

1. Direct PO/PSO attainments
   a. CO-PO/PSO articulation matrix
2. Indirect PO/PSO attainments
   a. Exit Survey
   b. Alumnae Survey
   c. Parent's Survey
   d. Employer Survey
   e. Governing Body Survey

Direct PO Attainment:

The calculation of Direct PO attainment is based on the CO attainment of each course and the CO-PO mapping matrix. The CO-PO mapping is formulated using a specific procedure. First, the keywords of each CO are identified. The identified keywords are mapped to the action verbs in the PO referred to as PO attributes. The key attributes of all POs are listed in Table 3.3.1.1.

The Correlation level with respect to CO-PO mapping can be measured as follows. Assuming there are n key points in each Course Outcome, for each key point of the CO that maps with the respective PO attribute a score of 1/n is allotted as the CO-PO mapping. Summation of all such scores lead to the total CO-PO mapping. Based on the CO-PO mapping the correlation levels are assigned to the mapping as shown in Table 3.3.1.2. The mapping of COs to PO4 for a sample subject is shown in Fig. 3.3.1.2.

Table 3.3.1.1: Key Attributes of POs

Program Outcome	Attributes/Competencies
PO 1	1. **Mathematics** 2. **Sciences** 3. **Engineering Fundamentals** 4. **Engineering Specialization**
PO 2	1. **Identification of Complex Engineering Problems** 2. **Formulation of Engineering Problems** 3. **Literature Research**
PO 3	1. **Problem Understanding** 2. **Design Thinking** 3. **Systematic Design Process**
PO 4	1. **Research-Based Knowledge** 2. **Design of Experiments** 3. **Analysis and Interpretation of Data** 4. **Synthesis of Information**
PO 5	1. **Selection of Tools** 2. **Understanding Tool Capabilities and Limitations** 3. **Application of Predictive Modeling Techniques** 4. **Integration of IT Tools**
PO 6	1. **Societal Impact** 2. **Health and Safety** 3. **Legal Compliance** 4. **Ethical Practices**
PO 7	1. **Resource Efficiency** 2. **Environmental Impact Mitigation** 3. **Community Engagement and Stakeholder Consultation**
PO 8	1. **Integrity and Honesty** 2. **Conflict of Interest** 3. **Environmental and Social Responsibility**

PO 9	1. **Individual Effectiveness** 2. **Team Effectiveness**
PO 10	1. **Comprehension and Writing Skills** 2. **Effective Presentations** 3. **Instructional Communication** 4. **Clarity and Conciseness**
PO 11	1. **Engineering Principles** 2. **Management Principles** 3. **Project Planning and Execution** 4. **Resource Management** 5. **Multidisciplinary Collaboration**
PO 12	1. **Awareness of Technological Change** 2. **Continuous Skill Development** 3. **Adaptability and Flexibility**
PSO 1	1. **Identify Specializations and Areas of Interest** 2. **Define Research Objectives and Scope** 3. **Utilize Hardware and Software Tools and Technologies**
PSO 2	1. **Professional Society Memberships** 2. **Seminars and Workshops** 3. **Technical Events and Conferences** 4. **Paper Presentations and Publications**

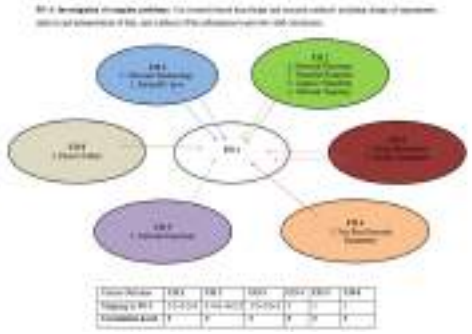


Fig. 3.3.1.2: Mapping of COs of Network Analysis to PO4

Table 3.3.1.2: COPO Correlation Levels

CO-PO mapping	Correlation	Correlation Level
< 0.25	No	-
≥ 0.25 to < 0.50	Weak	1
≥ 0.50 to < 0.75	Moderate	2
≥ 0.75	Strong	3

A similar method is employed to arrive at the COPO mapping for all POs and the Course Articulation Matrix is prepared as shown in Table 3.3.1.3.

Table 3.3.1.3: Course Articulation Matrix for Network Analysis

CO	PO1	PO2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C202.1	3	3	-	3	-	-	-	-	-	-	-	2	2	-
C202.2	3	3	2	2	-	-	-	-	-	-	-	1	1	2
C202.3	3	3	3	3	-	-	-	-	-	-	-	3	3	-
C202.4	3	3	3	3	-	-	-	-	-	-	-	0	3	3
C202.5	-	3	-	3	-	-	-	-	-	-	-	0	0	-
C202.6	3	3	3	3	-	-	-	-	-	-	-	0	3	3
C202	**3**	**3**	**2.75**	**2.83**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**2.4**	**2.66**

This approach is used to calculate COPO mapping for all the courses in the program and a Program Articulation Matrix can be prepared as shown in Table 3.3.1.4.

Table 3.3.1.4: Program Articulation Matrix

Subject Code for NBA	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2

1st Year															
C101	Physics	2.16	1.83	2.00	2.33	1.66	1.75	2.00						1.00	1.25
C102	Linear Algebra and Multivariable Calculus	1.00	2.00	3.00										2.00	
C103	Programming for Problem Solving	2.20	2.20	2.20		2.00				1.00			2.00		2.00
C104	Engineering Graphics	2.00	1.00	1.50	2.00	2.00	2.00	1.60			2.00	1.75	1.33	1.00	0.00
C105	Engineering Workshop	2.00		2.00			1.83		1.16		1.33		1.00	1.50	
C106	Physics Lab	1.75	1.83	1.83	2.00	1.50	1.75	2.00	3.00	2.50	2.00	1.00	3.00	1.00	1.00
C107	Programming Lab	2.17	2.20	2.20	1.00	2.00				1.40			2.00		1.50
C109	Chemistry	1.80	2.00	2.00	2.00	3.00	2.00	2.00					2.00	1.25	1.00
C110	Numerical Techniques and Transform Calculus	3.00	2.33	2.00	1.00									1.83	
C111	English									3.00	3.00		3.00	2.00	1.00
C112	Basic Electrical Engineering	3.00	2.50	2.33	2.00								2.00	2.00	1.00
C113	Chemistry Lab	2.75	2.00	2.00	2.00	2.00	1.00							1.20	2.00
C114	English Professional and Communication Skills				1.00				1.00	3.00	2.16				1.50
C115	Basic Electrical Engineering Lab	3.00	3.00	2.33	2.50									2.00	
C116	Computational Mathematics Lab	2.33	2.33	2.83	2.00	2.00				1.00				1.50	
2nd Year															
C201	Mathematical Analysis	2.50	2.33											1.83	
C202	Network Theory	3.00	3.00	2.75	2.83								2.00	2.40	2.66
C203	Electronic Devices and Circuits	3.00	3.00	3.00	3.00							3.00	3.00	3.00	3.00
C204	Signals and Systems	3.00	2.00	2.00	2.00	2.00							2.00	1.00	1.00
C205	Digital System Design	3.00	3.00	2.50	1.50	2.00					2.00			1.00	
C206	Electronic Circuits Lab	3.00	3.00	3.00	3.00					3.00	3.00		3.00	3.00	
C207	Basic Simulation Lab	3.00	3.00	2.00	2.00	3.00							2.00	1.00	1.00
C208	Digital System Design Lab	3.00	3.00	3.00	3.00							3.00		2.80	3.00
C210	Probability Theory & Stochastic Processes	3.00	2.83	2.83	3.00	3.00						2.75	2.40	3.00	3.00
C211	Material Science	2.16	1.83	2.00	2.33	1.66	1.75	2.00						1.00	1.25
C212	Analog Circuits	3.00	3.00	2.80	2.67								2.00	2.60	2.67
C213	Analog & Digital Communications	2.60	2.60		1.60	2.10	2.10	1.80					1.00	2.00	2.00
C214	Microprocessors & Microcontrollers	3.00	3.00	3.00	2.50	2.75	3.00			3.00		3.00	3.00	3.00	3.00
C215	Analog Circuits Lab	3.00	3.00	3.00	2.80								2.60	3.00	3.00
C216	Analog & Digital Communications Lab	2.60	2.60		1.60	2.10	2.10	1.80		2.00			1.00	2.00	2.00
C217	Microprocessors & Microcontrollers Lab	3.00	3.00	3.00	3.00	3.00	3.00			3.00		3.00	3.00	3.00	3.00
3rd Year															
C301	VLSI Design	3.00	3.00	3.00	3.00	3.00				3.00			3.00	3.00	3.00
C302	Digital Signal Processing	3.00	3.00	3.00	3.00	2.67							2.50	3.00	3.00
C303	EM Theory and Transmission Lines	3.00	2.83	2.16	1.16	1.83		0.83	1.16				1.83	1.00	1.00
C304	Computer Organization	3.00	2.40	2.50	2.67								1.75	1.33	1.75
C305	Electronic Measurements and Instrumentation	2.83	2.40	2.60	2.00			2.50						2.00	2.33
C306	Information Theory and Coding	3.00	2.50	2.16	2.33	2.00								2.00	2.16
C307	Digital Signal Processing Lab	2.66	2.83	2.50	2.30	2.33				2.66	2.00	2.83	2.83	3.00	3.00
C308	e CAD and VLSI Lab	3.00	3.00	3.00	3.00	3.00				3.00	3.00		3.00	3.00	3.00
C309	Employability and Soft Skills Lab	3.00	2.00	3.00			2.00	2.00			3.00	2.00	2.00	1.00	3.00
C310	Fundamentals of Data Structures	3.00	2.00	1.00	2.00	3.00		2.00					2.00	2.00	2.00
C311	Java Programming	3.00	2.00	1.00	2.00	3.00		2.00					2.00	2.00	2.00
C315	Introduction to Data Analytics	3.00	3.00							1.00	1.00			1.66	1.00
C316	Disaster Management						1.00	3.00		3.00	3.00		2.00		
C317	Managerial Economics and Financial Analysis			1.20	2.00			3.00		1.00	2.00	3.00	2.00		
C318	Principles of Computer Networks	3.00	3.00	3.00	2.80	2.67							3.00	2.67	2.60
C319	Linear Control Systems	3.00	2.83	2.50	2.33	2.25							3.00	2.00	2.33
C322	Bio Medical Electronics	3.00	3.00	1.40	2.50	2.00	2.30						3.00	2.25	2.50
C323	Computer Networks Lab	3.00	3.00	3.00	3.00	3.00							3.00	3.00	3.00
C324	Electronic Design Lab	3.00	2.60	3.00	3.00	3.00	2.00	2.33					3.00	3.00	2.00
C325	Seminar	3.00	3.00				3.00	3.00		3.00	3.00		3.00		3.00
C327	Database Management Systems	3.00	2.00	1.00	2.00	3.00		2.00					2.00	2.00	2.00
C332	Behavioral Skills and Professional Communication				1.00				1.00	3.00	2.16				1.50
4th Year															
C401	Fundamentals of Management						1.00	3.00		3.00	3.00		2.00		
C402	Microwave Engineering	3.00	3.00	3.00	3.00	3.00	2.00	3.00						3.00	3.00
C403	Digital Image and Video Processing	3.00	3.00	3.00	3.00	3.00	3.00						2.33	3.00	2.17
C404	Low Power VLSI Design	3.00	2.70	2.80	3.00	3.00	0.00	3.00	0.00	3.00	0.00	0.00	3.00	3.00	3.00
C405	Principles of Wireless Communications	3.00	3.00	3.00	3.00	3.00		3.00			3.00	3.00	3.00	3.00	3.00
C406	Artificial Intelligence	3.00	3.00	3.00	3.00	3.00	2.80	2.60				2.50	3.00	3.00	3.00
C407	Fiber Optic Communications	3.00	3.00	2.75	2.60	2.50							2.50	2.25	2.50
C408	Embedded System Design	3.00	3.00	3.00	3.00	3.00		3.00		3.00			3.00	3.00	3.00
C409	Microwave Engineering Lab	2.33	2.33	2.50	1.67	2.00	1.50	2.00	1.00	3.00	2.67	2.00	1.50	3.00	2.67
C410	Mini Project	2.33	2.33	2.50	1.67	2.00	1.50	2.00	1.00	3.00	2.67	2.00	1.50	3.00	2.67
C411	Project Phase I	3.00	2.00	1.00	2.00	3.00		2.00					2.00	2.00	2.00
C413	Python Programming	3.00	2.00	3.00			2.00	2.00			3.00	2.00	2.00		
C416	Waste Management Techniques and Power Generation						2.25	3.00		2.00	2.00	2.00	3.00		

C417	Industrial Management						2.00	2.20		2.50	1.33	3.00	3.00			
C418	Entrepreneurship and Project Management	2.50	2.00	2.40	2.00							2.00	2.40	2.00	1.50	
C419	Global Navigation Satellite Systems	3.00	3.00	3.00	2.60	2.80	3.00	3.00		2.00			3.00	2.80	2.60	
C420	Adaptive Signal Processing	2.33	2.33	2.50	1.67	2.00	1.50	2.00	1.00	3.00	2.67	2.00	1.50	3.00	2.67	
C421	Radar Systems			1.00	2.00			3.00		1.00	1.00	3.00				
C422	Internet of Things						1.00	3.00		3.00	3.00		2.00			
C423	Ad hoc Wireless Networks	3.00	3.00	3.00	3.00	3.00	2.00	3.00						3.00	3.00	
C424	Artificial Neural Networks	3.00	3.00	3.00	3.00	3.00	3.00						2.33	3.00	2.17	
C425	Project Phase II	3.00	2.70	2.80	3.00	3.00	0.00	3.00	0.00	3.00	0.00	0.00	3.00	3.00	3.00	
C431	Environment Impact Assessment	3.00	3.00	3.00	3.00	3.00		3.00			3.00	3.00	3.00	3.00	3.00	

The CO-PO/PSO mapping once calculated, based on the attainment obtained for one course, each PO/PSO attainment can be formulated as:

PO/PSO attainment = (CO attainment of a course*correlation level between course and PO/PSO) * 1/3

Using this formula the PO attainment for all courses is calculated. The average of all the PO attainments provides the Direct PO attainment as shown in Table 3.3.1.5.

Table 3.3.1.5: PO Direct Attainment

Subject Code for NBA	Subject Name	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1st Year																
C101	Physics	2.36	1.70	1.44	1.57	1.83	1.30	1.38	1.57	0.00	0.00	0.00	0.00	0.00	0.79	0.98
C102	Linear Algebra and Multivariable Calculus	2.19	0.73	1.46	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.00
C103	Programming for Problem Solving	2.48	1.82	1.82	1.82	0.00	1.66	0.00	0.00	0.00	0.83	0.00	0.00	1.66	0.00	1.66
C104	Engineering Graphics	2.35	1.57	0.78	1.18	1.57	1.57	1.57	1.25	0.00	0.00	1.57	1.37	1.04	0.78	0.00
C105	Engineering Workshop	2.10	1.40	0.00	1.40	0.00	0.00	1.28	0.00	0.81	0.00	0.93	0.00	0.70	1.05	0.00
C106	Physics Lab	2.12	1.24	1.29	1.29	1.41	1.06	1.24	1.41	2.12	1.77	1.41	0.71	2.12	0.71	0.71
C107	Programming Lab	2.10	1.52	1.54	1.54	0.70	1.40	0.00	0.00	0.00	0.98	0.00	0.00	1.40	0.00	1.05
C109	Chemistry	1.40	0.93	0.93	0.93	0.93	1.40	0.93	0.93	0.00	0.00	0.00	0.00	0.93	0.58	0.47
C110	Numerical Techniques and Transform Calculus	1.81	1.81	1.41	1.21	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00
C111	English	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	2.37	0.00	2.37	1.58	0.79
C112	Basic Electrical Engineering	1.64	1.64	1.37	1.27	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.09	0.55
C113	Chemistry Lab	2.11	1.93	1.41	1.41	1.41	1.41	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.41
C114	English Professional and Communication Skills Lab	1.97	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.66	1.97	1.42	0.00	0.00	0.00	0.99
C115	Basic Electrical Engineering Lab	1.25	1.25	1.25	0.97	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00
C116	Computational Mathematics Lab	1.29	1.00	1.00	1.22	0.86	0.86	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.65	0.00
2nd Year																
C201	Mathematical Analysis	2.50	2.08	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00
C202	Network Theory	1.93	1.93	1.93	1.77	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	1.55	1.71
C203	Electronic Devices and Circuits	1.77	1.77	1.77	1.77	1.77	0.00	0.00	0.00	0.00	0.00	0.00	1.77	1.77	1.77	1.77
C204	Signals and Systems	2.00	2.00	1.33	1.33	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.67	0.67
C205	Digital System Design	1.87	1.87	1.87	1.56	0.93	1.24	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.62	0.00
C206	Electronic Circuits Lab	2.43	2.43	2.43	2.43	2.43	0.00	0.00	0.00	0.00	2.43	2.43	0.00	2.43	2.43	0.00
C207	Basic Simulation Lab	2.60	2.60	2.60	1.73	1.73	2.60	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.87	0.87
C208	Digital System Design Lab	2.47	2.47	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	2.30	2.47
C210	Probability Theory & Stochastic Processes	1.60	1.60	1.51	1.51	1.60	1.60	0.00	0.00	0.00	0.00	0.00	1.47	1.28	1.60	1.60
C211	Material Science	3.00	2.16	1.83	2.00	2.33	1.66	1.75	2.00	0.00	0.00	0.00	0.00	0.00	1.00	1.25
C212	Analog Circuits	1.70	1.70	1.70	1.59	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.47	1.51
C213	Analog & Digital Communications	1.40	1.21	1.21	0.00	0.75	0.98	0.98	0.84	0.00	0.00	0.00	0.00	0.47	0.93	0.93
C214	Microprocessors & Microcontrollers	1.60	1.60	1.60	1.60	1.33	1.47	1.60	0.00	0.00	1.60	0.00	1.60	1.60	1.60	1.60
C215	Analog Circuits Lab	2.43	2.43	2.43	2.43	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	2.43	2.43
C216	Analog & Digital Communications Lab	2.30	1.99	1.99	0.00	1.23	1.61	1.61	1.38	0.00	1.53	0.00	0.00	0.77	1.53	1.53
C217	Microprocessors & Microcontrollers Lab	2.37	2.37	2.37	2.37	2.37	2.37	2.37	0.00	0.00	2.37	0.00	2.37	2.37	2.37	2.37
3rd Year																
C301	VLSI Design	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	1.50	0.00	0.00	1.50	1.50	1.50
C302	Digital Signal Processing	1.80	1.80	1.80	1.80	1.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.80	1.80
C303	EM Theory and Transmission Lines	2.20	2.20	2.08	1.58	0.85	1.34	0.00	0.61	0.85	0.00	0.00	0.00	1.34	0.73	0.73
C304	Computer Organization	2.03	2.03	1.63	1.69	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.90	1.19
C305	Electronic Measurements and Instrumentation	1.37	1.29	1.09	1.18	0.91	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.91	1.06
C306	Information Theory and Coding	1.80	1.80	1.50	1.30	1.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.30
C307	Digital Signal Processing Lab	2.60	2.31	2.45	2.17	1.99	2.02	0.00	0.00	0.00	2.31	1.73	2.45	2.45	2.60	2.60
C308	e-CAD and VLSI Lab	2.57	2.57	2.57	2.57	2.57	2.57	0.00	0.00	0.00	2.57	2.57	0.00	2.57	2.57	2.57
C309	Employability and Soft Skills Lab	2.83	2.83	1.89	2.83	0.00	0.00	1.89	1.89	0.00	0.00	2.83	1.89	1.89	0.94	2.83
C310	Fundamentals of Data Structures	2.67	2.67	1.78	0.89	1.78	2.67	0.00	1.78	0.00	0.00	0.00	0.00	1.78	1.78	1.78
C311	Java Programming	1.50	1.50	1.00	0.50	1.00	1.50	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
C315	Introduction to Data Analytics	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.00	0.00	1.38	0.83
C316	Disaster Management	2.17	0.00	0.00	0.00	0.00	0.00	0.72	2.17	0.00	2.17	2.17	0.00	1.44	0.00	0.00
C317	Managerial Economics and Financial Analysis	2.50	0.00	0.00	1.00	1.67	0.00	0.00	2.50	0.00	0.83	1.67	2.50	1.67	0.00	0.00

C318	Principles of Computer Networks	2.20	2.20	2.20	2.20	2.05	1.96	0.00	0.00	0.00	0.00	0.00	0.00	2.20	1.96	1.91
C319	Linear Control Systems	1.50	1.50	1.42	1.25	1.17	1.13	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.00	1.17
C322	Bio-Medical Electronics	1.63	1.63	1.63	0.76	1.36	1.09	1.25	0.00	0.00	0.00	0.00	0.00	1.63	1.23	1.36
C323	Computer Networks Lab	2.70	2.70	2.70	2.70	2.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70
C324	Electronic Design Lab	2.87	2.87	2.48	2.87	2.87	2.87	1.91	2.23	0.00	0.00	0.00	0.00	2.87	2.87	1.91
C325	Seminar	3.00	3.00	3.00	0.00	0.00	0.00	3.00	3.00	0.00	3.00	3.00	0.00	3.00	0.00	3.00
C327	Database Management Systems	2.17	2.17	1.44	0.72	1.44	2.17	0.00	1.44	0.00	0.00	0.00	0.00	1.44	1.44	1.44
C332	Behavioral Skills and Professional Communication	2.17	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.72	2.17	1.56	0.00	0.00	0.00	1.08
	4th Year															
C401	Fundamentals of Management	2.17	0.00	0.00	0.00	0.00	0.00	0.72	2.17	0.00	2.17	2.17	0.00	1.44	0.00	0.00
C402	Microwave Engineering	2.53	2.53	2.53	2.53	2.53	2.53	1.69	2.53	0.00	0.00	0.00	0.00	0.00	2.53	2.53
C403	Digital Image and Video Processing	2.47	2.47	2.47	2.47	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	1.92	2.47	1.78
C404	Low Power VLSI Design	2.53	2.53	2.28	2.36	2.53	2.53	0.00	2.53	0.00	2.53	0.00	0.00	2.53	2.53	2.53
C405	Principles of Wireless Communications	2.20	2.20	2.20	2.20	2.20	2.20	0.00	2.20	0.00	0.00	2.20	2.20	2.20	2.20	2.20
C406	Artificial Intelligence	2.47	2.47	2.47	2.47	2.47	2.47	2.30	2.14	0.00	0.00	0.00	0.00	2.06	2.47	2.47
C408	Embedded System Design	2.73	2.73	2.73	2.51	2.37	2.28	0.00	0.00	0.00	0.00	0.00	0.00	2.28	2.05	2.28
C409	Microwave Engineering Lab	2.33	2.33	2.33	2.33	2.33	2.33	0.00	2.33	0.00	2.33	0.00	0.00	2.33	2.33	2.33
C410	Mini Project	3.00	2.33	2.33	2.50	1.67	2.00	1.67	2.00	3.00	3.00	2.67	2.00	2.33	3.00	2.67
C411	Project Phase I	2.83	2.20	2.20	2.36	1.58	1.89	1.42	2.10	2.83	2.83	2.52	1.89	1.42	2.83	2.52
C413	Python Programming	1.83	1.83	1.22	0.61	1.22	1.83	0.00	1.22	0.00	0.00	0.00	0.00	1.22	1.22	1.22
C416	Waste Management Techniques and Power Generation	2.67	2.67	1.78	2.67	0.00	0.00	1.78	1.78	0.00	0.00	2.67	1.78	1.78	0.00	0.00
C417	Industrial Management	2.17	0.00	0.00	0.00	0.00	0.00	1.63	2.17	0.00	1.44	1.44	1.44	2.17	0.00	0.00
C418	Entrepreneurship and Project Management	2.00	0.00	0.00	0.00	0.00	0.00	1.33	1.47	0.00	1.67	0.89	2.00	2.00	0.00	0.00
C419	Global Navigation Satellite Systems	2.80	2.33	1.87	2.24	1.87	0.00	0.00	0.00	0.00	0.00	0.00	1.87	2.24	1.87	1.40
C422	Internet of Things	2.67	2.67	2.67	2.67	2.31	2.49	2.67	2.67	0.00	1.78	0.00	0.00	2.67	2.49	2.31
C425	Project Phase II	2.76	2.14	2.14	2.30	1.54	1.84	1.38	1.84	2.76	2.76	2.46	1.84	1.38	2.76	2.46
C431	Environment Impact Assessment	2.00	0.00	0.00	0.67	1.33	0.00	0.00	2.00	0.00	0.67	0.67	2.00	0.00	0.00	0.00
			125.26	114.57	104.95	95.99	78.68	43.23	58.29	13.75	52.83	45.42	37.66	95.63	95.41	91.77
			62	61	59	58	43	27	32	8	28	24	20	54	59	55
	Average PO Direct Attainment		2.02	1.88	1.78	1.65	1.83	1.60	1.82	1.72	1.92	1.89	1.88	1.78	1.62	1.67

Indirect PO Attainment:

Feedback from various stakeholders:

The feedback is collected every academic year from all the stakeholders and is evaluated and analyzed. The list of stakeholders from whom feedback is collected is listed below:

- **Alumnae:** Feedback is collected from alumnae with two sections of 15 questions. First section responses are rated from 1 to 5 and the second section responses are mapped to 1 to 5 scale.
- **Parents:** Feedback is collected from parents with 15 questions which are rated from 1 to 5.
- **Students:** Feedback is collected from the outgoing students with 16 questions which are rated from 1 to 5.
- **Employer:** Feedback is collected from Employer with 15 questions which are rated from 1 to 5.
- **Governing Body:** Feedback is collected from members of the Governing Body with 14 questions which are rated from 1 to 5.

For each stakeholder a different set of questions is framed based on factors on which the feedback is to be taken. Responses are received on a scale of 1 to 5 based on the satisfaction of different stakeholders on a particular attribute. A sample questionnaire for Alumnae Survey, Parents Survey, Exit Survey, Employer Survey and Governing Body Survey is shown in Tables 3.3.1.6, 3.3.1.7, 3.3.1.8, 3.3.1.9, 3.3.1.10 respectively. The average rating in terms of percentage is calculated for each of the questions. The calculated average of each question is mapped to POs and PSOs that relate to it. An average is computed for all the questions that are mapped to each PO and the average is mapped to an attainment level as shown in Table 3.3.1.11. Sample response of a parent survey for 2019-23 batch is shown in Table 3.3.1.12

Table 3.3.1.6: Alumnae Survey Questionnaire

S. No.	Attribute / Item
A1)	The program gave sound knowledge of the engineering fundamentals and strong foundations in ECE branch specialization courses, necessary at graduate level.
A2)	Appropriate combination of theoretical knowledge & practical skills in the program allowed clear understanding of engineering processes, and enabled offering correct analysis & effective solutions.
A3)	Program was well structured and implemented to ensure problem solving ability in ECE related fields, enhancing the confidence levels of students.
A4)	Enough importance was given to design, verification and result analysis, using modern scientific tools, enabling present day technological needs.
A5)	Plenty of opportunities were provided to excel as individual and as group member, through academic exercises, mini-projects, co-curricular/extra-curricular activities, and professional society events.
A6)	Ample scope was given to enhance abilities for individual problem solving, modelling and analysis of engineering problems, hands-on experience and data interpretation / presentation.
A7)	Special focus on improvement of communication skills and peer-networking abilities through language lab sessions, workshops, seminars, group discussions, paper presentations, conduct of technical events is appreciated.
A8)	College ambience and program planning ensured good team collaborations, inculcated learning abilities with professional ethics and engineering practices in multi-disciplinary fields.
A9)	The program gave ample scope for identifying complex engineering problems, and imparted knowledge to develop acceptable models & offer effective solutions.

A10)	Program encouraged utility of modern engineering tools and sophisticated technologies to develop acceptable solutions for complex engineering problems in real life domain.
A11)	Program on the whole, satisfied the needs of all women students - provided good career opportunities, and also enabled them to go for higher studies/research.
A12)	The college campus was quite green and student friendly, with hygienic canteen food and pleasant hostel facilities and transport provisions.
A13)	Safety and security requirements for all girl students were excellent, and medical attention was as per needs.
A14)	The program enabled GNITS students to realize their social responsibilities, and conduct successful events related to societal issues & regional development.
A15)	Overall, the program met my expectations, and I am happy to progress ahead with this successful graduation.
S. No.	**Attribute / Item**
B1)	Your graduation at GNITS helped you in securing your first employment. (a) Before Graduation (b) < 6 Months after Graduation (c) 6 Months to 1 Year after Graduation (d) > 1 Year after Graduation (e) No Employment Still
B2)	How much has your graduation helped you in being 'well prepared' to meet the industry / organization requirements, during training / probationary period? (a) Entirely (b) Very Much (c) Satisfactorily (d) Partially (e) Not Much
B3)	What performance grade did you get in completing the training sessions related to your employment, within the specified period? (a) Excellent (b) Good (c) Satisfactory (d) Need to Improve (e) Not Applicable
B4)	Is your engineering program knowledge helpful in solving technical problems at the organization? (a) Very Large Extent (b) Very Much (c) To Some Extent (d) Very Little (e) Not Much
B5)	Your compatibility in using modern tools / technologies to meet your job requirements is (a) Excellent (b) Good (c) Satisfactory (d) Need to Improve (e) Not Applicable
B6)	Your comfort level and acceptability - in performing the job functions as a group member or team leader, and as a follower of professional ethics, are (a) Excellent (b) Good (c) Satisfactory (d) Need to Improve (e) Not Applicable
B7)	Your levels of technical presentation and communication skills are (a) Excellent (b) Good (c) Satisfactory (d) Average (e) Need to Improve
B8)	You have commendable participation in the conduct of professional and technological promotion events at your organization, and your contributions made you happy (a) Very Large Extent (b) Very Much (c) To Some Extent (d) Very Little (e) Not Much
B9)	What is the time taken for your first promotion in the organization? (a) 2 Years (b) 3 Years (c) 4 Years (d) 5 Years (e) Self Employed / Not Applicable
B10)	How many training programs have you attended (in related fields) during your employment? (a) > 3 (b) 3 (c) 2 (d) 1 (e) None / Not Applicable
B11)	How many times you have represented your group in technical discussions or acted as resource person for your team? (a) > 3 (b) 3 (c) 2 (d) 1 (e) None / Not Applicable
B12)	What additional qualifications / certifications could you attain after your graduation? (a) Doctoral Degree (b) Master's degree (c) PG Diploma (d) Certificate Course (e) None
B13)	How many projects you have successfully completed so far (as lead or member)? (a) > 3 (b) 3 (c) 2 (d) 1 (e) None / Not Applicable
B14)	You could carefully plan and organize cultural / sports events or social meets at your organization, much to your personal satisfaction (a) Very Large Extent (b) Very Much (c) To Some Extent (d) Very Little (e) Not Much
B15)	Overall, you consider that your career progress and professional achievements are mainly due to your successful graduation program at GNITS (a) Very Large Extent (b) Very Much (c) To Some Extent (d) Very Little (e) Not Much

Table 3.3.1.7: Parents Survey Questionnaire

S. No.	Attribute / Item
A1)	We chose GNITS women's college for my daughter, because of its excellent reputation in academics and placements, well-structured program implementation and instruction facilities.
A2)	We could take proper actions, corrective measures and give relevant support for our daughter's progress, as GNITS faculty continuously informed us about her attendance, performance, and domains of interest.
A3)	Our visits to college campus were not necessary to monitor our daughter's progress, as enough care is taken through counselling and guidance.
A4)	Our satisfaction level with reference to the curriculum offered, laboratory equipment provided and modern scientific tools available, is excellent.
A5)	As per our observations, faculty strength, teaching-learning practices used, and special focus on imparting soft skills and communication skills are well appreciated features at GNITS.
A6)	GNITS has balanced co-curricular / extra-curricular activities, well planned technical / cultural events, encouraging professional society memberships, which are very much liked by our daughter.
A7)	College has provided many opportunities for our ward to excel in technical paper presentations, workshop participations and mini project executions.
A8)	Excellent training and discussion sessions are available at GNITS campus, ensuring proper understanding / orientation towards placements & career guidance.
A9)	The college has a well-maintained campus with greenery, digital library, Wi-Fi provision, hygienic drinking water and canteen facilities.
A10)	We are very happy with the well-maintained student transport / hostel facilities, and excellent encouragement plus support for student participation in sports & games.

A11)	The college has excellent safety and security measures, adequate medical facilities, because of which we are at ease as far as our girl's stay at campus is concerned.
A12)	We are glad that our ward is aware of social issues, participated in events related to societal responsibility & regional developments, scrupulously following moral values and professional ethics.
A13)	The college has adequate infrastructural facilities, well-ventilated classrooms and easily accessible good-mannered faculty giving us enough satisfaction and greater pride in admitting our daughter here.
A14)	We are extremely happy with our daughter's campus placement before the completion of her graduation, and our parental pride is entirely due to her GNITS graduation.
A15)	We are very much satisfied with our daughter's progress in the B. Tech./M.Tech. program, and we would like to recommend GNITS graduation program study to our friends/relatives or any other contacts.

Table 3.3.1.8: Exit Survey

S. No.	Attribute / Item
A1)	The program provided a sound knowledge of the fundamentals in Basic & Engineering Sciences, Programming Skills, to analyze and solve engineering problems related to the fields of Electronics & Communications
A2)	Theoretical studies are well supported by the Lab Experiments and Design/Simulation Exercises, imparting proficient coding skills and training, rich on-line experience on different tools and platforms
A3)	Appropriate combination of Theoretical Knowledge and Practical Aids allowed clear understanding and implementation of engineering processes, enabling - proper analytical skills, interpretation abilities and offer of effective solutions
A4)	Enough importance was given to design, verification, testing and result analysis, using modern scientific tools, ensuring prototype design and development, providing research-based knowledge
A5)	The program is well structured to carry out choice based Mini/Major Projects, shine in Comprehensive Viva and Seminar Presentations, paving path for individual excellence, reporting skills and academic progress
A6)	Special focus provided on improvement of communication skills and peer-networking abilities through language lab sessions, workshops, paper presentations, conduct of social service events and cultural programs, is appreciated
A7)	Plenty of opportunities are provided to excel as group member or team lead, enabling team collaborations, planning abilities, better discussion skills and scheduling successful professional society tasks
A8)	The program empowered the students to ascertain the impact of professional engineering solutions in technical domains as well as societal and environmental contexts, and endorsed their talents for further developments
A9)	The program readily implanted awareness of the industry requirements and practical applications, enabling independent thinking and successful application of their domain knowledge and managerial skills
A10)	College ambience, departmental environment and program planning ensured good understanding of societal needs, inculcated participating abilities with professional ethics, and promoted innovative practices in diversified areas, with fruitful outcomes
A11)	Enhanced the abilities to communicate effectively in oral and written modes, synopsis and report writing, discussion and interview zones, thereby making the students proactive and vibrant
A12)	Enabled the students to realize the need, and efficiently engage in continuous learning practices, life-long association with professional organizations and industrial developments.
A13)	Program overall, satisfied the needs of all women engineering students - provided good placements, career opportunities, and enabled them to go for higher studies/research
A14)	The college campus is quite green and student friendly, with hygienic canteen food and pleasant hostel facilities and transport provisions
A15)	Safety and security requirements for all girl students were excellent, and medical attention was as per needs and satisfactory
A16)	Overall, the program met my expectations, and I am happy to progress ahead with this successful graduation and plan my future.

Table 3.3.1.9: Employer Survey

S. No.	Attribute / Item
A1)	GNITS graduates have desire to learn, and are industry ready, as revealed by their creditable performances during training sessions and probationary period.
A2)	GNITS graduates have the necessary theoretical and practical knowledge and are successful in proving their problem solving abilities.
A3)	They possess the required technical skills, programming abilities and are willing to work hard and contribute to the development of the organization.
A4)	GNITS women graduates perform equally well in individual capacities and as group members or technical lead and assume responsibility for their actions and progress.
A5)	They can identify the industry needs, and model or design a system/process using advanced tools to meet the technological constraints.
A6)	They communicate effectively with peers, seniors, subordinates, clients and other stakeholders, and proactively engage in professional development.
A7)	They exhibit good inter-personal relationships and show their ability to work as a team in different social and technical environments following professional ethics.
A8)	They have the zeal for continuous learning and thrust to excel in successfully completing their allocated projects and proceed to advanced level jobs.
A9)	Their interactive presence and contributions in workshops, technical meets and project/report presentations are well appreciated.
A10)	They have the desire to improve their qualifications and competence and express their willingness for advanced training practices or works on challenging projects in diversified domains.
A11)	The overall performance of GNITS graduates in our organization is excellent.
A12)	Performance levels of GNITS women graduates are appreciably better than their counterparts from other institutions.
A13)	We are happy to have GNITS graduates in our organization and are willing to recruit more in future.

A14)	They are aware of their social responsibilities and are equally enthusiastic in participating events related to societal issues and regional developments.

Table 3.3.1.10: Governing Body Survey

S. No.	Attribute / Item
A1)	GNITS graduates have desire to learn, and are industry ready, as revealed by their creditable performances during training sessions and probationary period.
A2)	GNITS graduates have the necessary theoretical and practical knowledge and are successful in proving their problem solving abilities.
A3)	They possess the required technical skills, programming abilities and are willing to work hard and contribute to the development of the organization.
A4)	GNITS women graduates perform equally well in individual capacities and as group members or technical lead and assume responsibility for their actions and progress.
A5)	They can identify the industry needs, and model or design a system/process using advanced tools to meet the technological constraints.
A6)	They communicate effectively with peers, seniors, subordinates, clients and other stakeholders, and proactively engage in professional development.
A7)	They exhibit good inter-personal relationships and show their ability to work as a team in different social and technical environments following professional ethics.
A8)	They have the zeal for continuous learning and thrust to excel in successfully completing their allocated projects and proceed to advanced level jobs.
A9)	Their interactive presence and contributions in workshops, technical meets and project/report presentations are well appreciated.
A10)	They have the desire to improve their qualifications and competence and express their willingness for advanced training practices or works on challenging projects in diversified domains.
A11)	The overall performance of GNITS graduates in our organization is excellent.
A12)	Performance levels of GNITS women graduates are appreciably better than their counterparts from other institutions.
A13)	We are happy to have GNITS graduates in our organization and are willing to recruit more in future.
A14)	They are aware of their social responsibilities and are equally enthusiastic in participating events related to societal issues and regional developments.

Table 3.3.1.11: Attainment Levels for Percentage Student Response for PO Indirect Attainment

Percentage Student Response	Attainment Level
Below 70%	Level 0
70% - 80%	Level 1
80% - 90%	Level 2
Above 90%	Level 3

Table 3.3.1.12: Parent Survey Responses and the PO Mapping of Questions

Name of the Parent	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15
V Sucharita	4	5	4	4	4	4	4	4	4	3	4	4	4	4	4
Ratan Kumar Tantravahi	4	4	5	4	4	4	4	4	5	4	4	4	4	4	4
Gajjala Vithal	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Shaik Abdul Nabi	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Shanigarapu Babu	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Vamanabatla Balakrishna Sharma	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Bhaskara rao	4	3	4	3	4	3	3	3	3	2	2	2	2	3	3
M. Ramanayya	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
BADDALA.SRIDHAR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Lade Thirupathi	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
C.R. Savithramma	5	4	5	4	5	5	5	4	5	5	5	4	5	4	4
Shaik Jaleel pasha	5	3	3	3	3	3	3	2	2	4	4	4	4	3	3
Balchandram Gajulapally	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4
Basireddygari Guru Diwakara Reddy	5	5	4	3	5	4	4	4	5	5	5	5	4	5	4
K. Anand Rao	4	4	4	4	4	4	4	4	3	4	4	4	4	5	4
Arwapally Gopal	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Pothula Viswa Muni Naidu	5	5	5	5	5	4	4	5	5	5	5	5	5	5	5
Varala sudhakar	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4
V.Venkateshwar Rao	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
Hanmanth rao	5	4	4	3	3	4	3	4	5	3	2	4	2	3	3
Gousiya Begum	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Regalla Manjula	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4
Rajeshwari	5	4	4	4	5	5	4	5	5	5	5	5	5	5	5
V. S. S Narayana	5	5	5	5	3	3	5	5	5	5	5	5	5	4	5

G Ravinder	4	5	4	4	4	4	4	5	4	5	5	5	5	5	5
Thiramdasu Narahari	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Chandra Sekhar Reddy	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4
B. Venkata Krishna Reddy	4	4	4	3	4	3	4	4	5	5	5	5	4	4	4
Mukkisa Malla Reddy	5	5	5	5	5	5	4	5	4	4	4	5	5	5	5
Polaveni Srinivas	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
G Pullaiah	4	4	3	3	3	4	3	3	3	3	3	4	3	4	4
Mamindla Bhairaiah	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
P. Ramachandraiah	5	4	4	5	5	5	5	4	5	5	5	4	5	5	5
B.Srinivas	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
Mugala Venu chary	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Nenavath Srinu	5	4	5	5	4	5	4	4	5	4	5	4	5	4	5
M K Novaha	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Lavanya	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Vanam Anjaneyulu	4	4	4	4	4	3	4	3	3	4	4	4	4	3	4
Palvai Rajeshwar Reddy	5	4	4	4	4	5	5	4	4	4	4	4	4	4	4
M.Srinivas Reddy	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Kotha sampath kumar	5	5	5	5	5	5	3	4	4	3	4	3	3	4	4
Srigada Srinivas	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5
Akoju Venkateshwarlu	3	3	4	3	3	4	3	3	3	3	3	3	3	2	2
B.Ramulu	4	4	4	3	3	4	4	3	5	4	4	4	4	4	4
Siva Rama Prasad	3	4	4	4	4	4	4	4	4	4	4	3	4	5	4
Mahender	5	5	5	5	5	4	5	5	5	4	5	5	5	5	5
Dasari Laxman	5	5	5	5	5	5	5	5	5	3	5	5	5	5	5
Thurlapati Venkateswara Rao	5	5	5	4	4	5	5	5	4	4	5	5	5	5	5
Koyyada Chandra Shekher	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Samudrala Dharmender	5	4	3	4	4	4	4	4	4	4	4	4	4	4	4
Kunchala Sudhakar	4	4	4	4	4	4	4	5	5	5	5	5	5	4	4
K. Krishna reddy	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Katakam Satyanarayana	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4
M. Rajya Laxmi	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Manikyamba Pamarti	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
AV Ramana	5	3	5	4	5	5	5	4	5	5	5	5	5	5	4
Amireddy Indra Reddy	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
M Sai Baba	4	5	5	5	4	5	5	5	5	5	5	5	5	5	5
B. Ramesh	5	5	5	5	5	5	5	5	4	3	5	5	5	5	5
KLN Reddy	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Subhashini	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3
Jayalalitha Pala	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5
Billa Nagender	4	5	4	5	5	4	5	4	5	4	5	4	4	5	5
J Thimya	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Basu Narsimlu	5	4	4	4	4	5	5	5	5	5	4	4	4	5	5
Nawari Kanthi Reddy	5	5	5	3	4	4	5	4	4	4	5	5	4	5	5
Nagapuri Mallesh Yadav	3	3	3	3	3	3	3	3	2	2	3	2	2	2	3
J Srinivasalu	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Nanduri Meenakshi	3	2	4	1	4	1	4	2	1	1	5	4	1	3	2
Swamy Tallapally	4	3	3	3	2	3	4	2	4	3	2	3	3	4	3
Srikakolapu Radhakumari	4	3	4	4	3	4	3	4	4	4	4	4	4	4	4
Shashank A Dhodapkar	4	2	2	2	2	2	3	1	1	1	1	4	1	3	2
Mahankali Raju	4	4	4	5	5	4	4	5	5	4	4	4	5	5	5
Shivakumar Chowla	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Telugu Venkata Swamy	5	5	4	5	5	4	4	4	4	4	4	4	4	4	4
Pandu naik	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Venna mallikarjuna reddy	5	3	3	3	3	3	3	3	2	1	3	3	2	2	2
Gujarathi vijay	4	4	4	5	5	4	4	4	4	4	5	4	5	5	5
Kesidi Venkat Reddy	4	3	4	4	3	4	3	4	4	4	3	4	4	4	4
J.Srinivas	5	5	5	4	4	3	4	3	4	5	5	4	4	4	5
Satya Narayana	4	4	4	4	5	5	4	4	4	5	4	4	3	4	4

Pendker Ramesh	4	4	4	3	3	4	4	3	4	5	4	3	4	3	4
J.V.Phani Prasad	5	5	5	5	5	5	5	5	5	4	5	4	5	5	5
Seella Prasanna Kumar	5	5	4	5	5	5	5	4	5	4	5	5	5	4	5
Middela Raju	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
K Masanna	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Thalluri Srinivasa Rao	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Venkatesh goud	5	4	5	5	5	5	5	2	5	4	4	3	2	4	3
Boyalla Sreenivasulu Reddy	4	4	4	4	3	3	4	3	5	4	5	3	4	4	4
P V Kameswara Rao	4	5	3	5	4	4	4	4	4	5	5	4	4	5	5
R. Sri Rama Charan	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5
K. Mohan Reddy	5	4	4	4	4	4	4	4	4	4	5	4	4	4	5
B. Ramachandrudu	4	4	5	4	4	4	4	5	5	5	5	4	4	4	4
Mallikarjun	4	4	5	5	5	5	5	5	5	5	5	5	4	5	5
Total Points Obtained	416	397	405	395	397	395	400	389	401	390	409	399	392	403	406
Maximum Points	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475
Percentage of Points	87.6	83.6	85	83	84	83.2	84	81.9	84	82	86	84	82.5	84.8	85
POs Mapped to each Attribute				PO3	PO2	PO6	PO4	PO9	PO7			PO7	PO1	PO9	PO12
				PO5	PO10	PSO2	PO11	PO12				PO8		PSO1	

Each PO attainment is now calculated as the average percentage of points obtained for all the questions for which that particular PO is mapped. For example, PO12 attainment is the average percentage of points obtained for A8 and A15 attributes. The attainment for all the POs is calculated and is shown in Table 3.3.1.12. The frequency at which all these assessment tools are used is listed in Table 3.3.1.14.

Table 3.3.1.13: Attainment of Parents Survey

POs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
Attainment Percentage	82.5	83.6	83	84	83	83.2	84	84	85	84	84	81.9	84.8	83.2

Table 3.3.1.14: Frequency of use of Assessment Tools for PO Indirect Attainment

S. No.	**Assessment Tools**	**Frequency of Evaluation**
1.	Direct PO Attainment through CO Attainment and CO-PO Mapping	Once for every batch of students
2.	Alumnae Survey	Thrice for every batch of students
3.	Parents Survey	Once for every batch of students
4.	Exit Survey	Once for every batch of students
5.	Employer Survey	Once for every batch of students
6.	Governing Body Survey	Once for every batch of students

The overall Indirect attainment for each PO is calculated by finding the average of all types of surveys for that corresponding PO. The PO Indirect attainment for the batch passing out in 2022-23 is shown in Table 3.3.1.15. The Overall PO attainment is calculated as **80% of the Direct PO/PSO attainment + 20% of the indirect PO/PSO attainment** as calculated in Table 3.3.1.16**.** The attainments calculated for 2017-21, 2018-22 and 2019-23 batches are listed in Table 3.3.1.17 and comparative analysis is shown in Fig. 3.3.1.3.

Table 3.3.1.15: PO Indirect Attainment for 2019-23 Batch

PO/Survey	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS02
Alumnae	80.27	79.66	76.18	75.25	74.68	79.49	74.88	81.76	75.72	82.78	69.94	65.16	61.60	80.51
Level	3.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	3.00	1.00	1.00	1.00	3.00
Parents	82.33	79.81	76.89	79.61	76.89	82.14	82.91	82.14	78.25	79.81	79.61	79.42	78.25	82.14
Level	3.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00
Exit Survey	81.20	86.40	80.10	88.20	85.00	82.00	85.20	88.20	82.33	88.67	86.40	82.20	82.14	82.91
Level	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Employer	80.00	80.00	75.00	86.67	70.00	80.00	80.00	80.00	70.00	80.00	70.00	90.00	80.00	80.00
Level	3.00	3.00	2.00	3.00	2.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	3.00	3.00
Governing Body	96.00	96.00	92.00	92.00	92.00	92.67	93.00	92.00	91.33	92.00	88.00	96.00	92.67	92.00
Level	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Attainment Levels	**3.00**	**2.60**	**2.40**	**2.60**	**2.40**	**2.80**	**2.80**	**3.00**	**2.40**	**2.80**	**2.20**	**2.40**	**2.40**	**3.00**

Table 3.3.1.16: Overall PO Attainment for 2019-23 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct Attainment (DA)	2.02	1.88	1.78	1.65	1.83	1.60	1.82	1.72	1.92	1.89	1.88	1.78	1.62	1.67
80% of DA	1.62	1.50	1.42	1.32	1.46	1.28	1.46	1.38	1.54	1.51	1.51	1.42	1.29	1.33
Indirect Attainment (IA)	3.00	3.00	2.80	2.80	2.80	2.80	2.80	2.80	2.60	3.00	2.80	2.60	2.80	3.00

20% of IA	0.60	0.60	0.56	0.56	0.56	0.56	0.56	0.56	0.52	0.60	0.56	0.52	0.56	0.60
Final Attainment = 80% DA + 20% IA	2.22	2.10	1.98	1.88	2.02	1.84	2.02	1.94	2.06	2.11	2.07	1.94	1.85	1.93

Table 3.3.1.17: Overall PO Attainments for 2017-21, 2018-22 and 2019-23 Batches

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2017-21	2.03	2.01	1.78	1.83	1.73	1.79	1.92	1.81	1.96	2.09	1.91	1.84	1.81	1.81
2018-22	2.07	2.02	1.85	1.84	1.82	1.83	2.01	1.64	1.92	1.89	1.90	1.97	1.93	1.96
2019-23	2.22	2.10	1.98	1.88	2.02	1.84	2.02	1.94	2.06	2.11	2.07	1.94	1.85	1.93

Fig. 3.3.1.3: Comparison of PO/PSO Attainments for 2017-21, 2018-22, 2019-23 Batches

3.3.2 Provide results of evaluation of each PO & PSO (65)

Institute Marks : 65.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.82	1.82	1.82	0	1.66	0	0	0	1.83	0	0	1.66
C104	1.57	0.78	1.18	1.57	1.57	1.57	1.25	0	0	1.57	1.37	1.04
C015	1.4	0	1.4	0	0	1.28	0	0.81	0	0.93	0	0.7
C106	1.24	1.29	1.29	1.41	1.06	1.24	1.41	2.12	1.77	1.41	0.71	2.12
C107	1.52	1.54	1.54	0.7	1.4	0	0	0	0.98	0	0	1.4
C109	0.93	0.93	0.93	0.93	1.4	.93	.93	0	0	0	0	0.93
C110	1.81	1.41	1.21	0.6	0	0	0	0	0	0	0	0
C111	0	0	0	0	0	0	0	0	2.37	2.37	0	2.37
C112	1.64	1.37	1.27	1.09	0	0	0	0	0	0	0	1.09
C113	1.93	1.41	1.41	1.41	1.41	0.7	0	0	0	0	0	0
C114	0	0	0	0.66	0	0	0	0.66	1.97	1.42	0	0
C115	1.25	1.25	0.97	1.04	0	0	0	0	0	0	0	0
C116	1	1	1.22	0.86	0.86	0	0	0	0.43	0	0	0
C201	2.08	1.94	0	0	0	0	0	0	0	0	0	0
C202	1.93	1.93	1.77	1.82	0	0	0	0	0	0	0	1.29
C203	1.77	1.77	1.77	1.77	0	0	0	0	0	0	1.77	1.77
C204	2	1.33	1.33	1.33	1.33	0	0	0	0	0	0	1.33
C205	1.87	1.87	1.56	0.93	1.24	0	0	0	0	1.24	0	0
C206	2.43	2.43	2.43	2.43	0	0	0	0	2.43	2.43	0	2.43
C207	2.6	2.6	1.73	1.73	2.6	0	0	0	0	0	0	1.73
C208	2.47	2.47	2.47	2.47	0	0	0	0	0	0	2.47	0
C210	1.6	1.51	1.51	1.6	1.6	0	0	0	0	0	1.47	1.28
C211	2.16	1.83	2	2.33	1.66	1.75	2	0	0	0	0	0
C212	1.7	1.7	1.59	1.51	0	0	0	0	0	0	0	1.13
C213	1.21	1.21	0	0.75	0.98	0.98	0.84	0	0	0	0	0.47
C214	1.6	1.6	1.6	1.33	1.47	1.6	0	0	1.6	0	1.6	1.6
C215	2.43	2.43	2.43	2.27	0	0	0	0	0	0	0	2.11
C216	1.99	1.99	0	1.23	1.61	1.61	1.38	0	1.53	0	0	0.77
C217	2.37	2.37	2.37	2.37	2.37	2.37	0	0	2.37	0	2.37	2.37
C301	1.5	1.5	1.5	1.5	1.5	0	0	0	1.5	0	0	1.5
C302	1.8	1.8	1.8	1.8	1.6	0	0	0	0	0	0	1.5
C303	2.2	2.08	1.58	0.85	1.34	0	0.61	0.85	0	0	0	1.34
C304	2.03	1.63	1.69	1.81	0	0	0	0	0	0	0	1.19
C305	1.29	1.09	1.18	0.91	0	0	1.14	0	0	0	0	0
C306	1.8	1.5	1.3	1.4	1.2	0	0	0	0	0	0	0
C307	2.31	2.45	2.17	1.99	2.02	0	0	0	2.31	1.73	2.45	2.45
C308	2.57	2.57	2.57	2.57	2.57	0	0	0	2.57	2.57	0	2.57
C309	2.83	1.89	2.83	0	0	1.89	1.89	0	0	2.83	1.89	1.89
C310	2.67	1.78	0.89	1.78	2.67	0	1.78	0	0	0	0	1.78
C311	1.5	1	0.5	1	1.5	0	1	0	0	0	0	1
C315	2.5	2.5	0	0	0	0	0	0	0.83	0.83	0	0
C316	0	0	0	0	0	0.72	2.17	0	2.17	2.17	0	1.44

C317	0	0	1	1.67	0	0	2.5	0	0.83	1.67	2.5	1.67
C318	2.2	2.2	2.2	2.05	1.96	0	0	0	0	0	0	2.2
C319	1.5	1.42	1.25	1.17	1.13	0	0	0	0	0	0	1.5
C322	1.63	1.63	0.76	1.36	1.09	1.25	0	0	0	0	0	1.63
C323	2.7	2.7	2.7	2.7	2.7	0	0	0	0	0	0	2.7
C324	2.87	2.48	2.87	2.87	2.87	1.91	2.23	0	0	0	0	2.87
C325	3	3	0	0	0	3	3	0	3	3	0	3
C327	2.17	1.44	0.72	1.44	2.17	0	1.44	0	0	0	0	1.44
C332	0	0	0	0.72	0	0	0	0.72	2.17	1.56	0	0
C401	0	0	0	0	0	0.72	2.17	0	2.17	2.17	0	1.44
C402	2.53	2.53	2.53	2.53	2.53	1.69	2.53	0	0	0	0	0
C403	2.47	2.47	2.47	2.47	2.47	2.47	0	0	0	0	0	1.92
C404	2.53	2.28	2.36	2.53	2.53	0	2.53	0	2.53	0	0	2.53
C405	2.2	2.2	2.2	2.2	2.2	0	2.2	0	0	2.2	2.2	2.2
C406	2.47	2.47	2.47	2.47	2.47	2.3	2.14	0	0	0	2.06	2.47
C408	2.73	2.73	2.51	2.37	2.28	0	0	0	0	0	0	2.8
C409	2.33	2.33	2.33	2.33	2.33	0	2.33	0	2.33	0	0	2.33
C413	1.83	1.22	0.61	1.22	1.83	0	1.22	0	0	0	0	1.22
C416	2.67	1.78	2.67	0	0	1.78	1.78	0	0	2.67	1.78	1.78
C417	0	0	0	0	0	1.67	2.17	0	1.44	1.44	1.44	2.17
C418	0	0	0	0	0	1.33	1.47	0	1.67	0.89	2	2
C419	2.33	1.87	2.24	1.87	0	0	0	0	0	0	1.87	2.24
C422	2.67	2.67	2.67	2.31	2.49	2.67	2.67	0	1.78	0	0	2.67
C431	0	0	0.67	1.33	0	0	2	0	0.67	0.67	2	0
C101	1.7	1.44	1.57	1.83	1.3	1.38	1.57	0	0	0	0	0
C102	0.73	1.46	2.19	0	0	0	0	0	0	0	0	0
C410	2.33	2.33	2.5	1.67	2	1.67	2	3	3	2.67	2	2.33
C411	2.2	2.2	2.36	1.58	1.89	1.42	2.1	2.83	2.83	2.52	1.89	1.42
C425	2.14	2.14	2.30	1.54	1.84	1.38	1.84	2.76	2.76	2.46	1.84	1.38

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Alumnae	3	3	2	2	2	2	2	2	2	3	3	2
Parent	3	3	3	3	3	3	3	3	3	3	3	3
Exit	3	3	3	3	3	3	3	3	3	3	3	3
Employer	3	3	3	3	3	3	3	3	2	3	2	2
Governing E	3	3	3	3	3	3	3	3	3	3	3	3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	3	3	2.8	2.8	2.8	2.8	2.8	2.8	2.6	3	2.8	2.6
Direct Attainment	2.02	1.88	1.78	1.65	1.83	1.60	1.82	1.72	1.92	1.89	1.88	1.78

PSO Attainment

Course	PSO1	PSO2
C101	0.79	0.98

C102	1.46	0
C103	0	1.66
C104	.78	0
C105	1.05	0
C106	0.71	0.71
C107	0	1.05
C109	0.58	0.47
C110	1.11	0
C111	1.58	0.79
C112	1.09	0.55
C113	0.84	1.41
C114	0	0.99
C115	0.83	0
C116	0.65	0
C201	1.53	0
C202	1.55	1.71
C203	1.77	1.77
C204	0.67	0.67
C205	0.62	0
C206	2.43	0
C207	0.87	0.87
C208	2.3	2.47
C210	1.6	1.6
C211	1	1.25
C212	1.47	1.51
C213	0.93	0.93
C214	1.6	1.6
C215	2.43	2.43
C216	1.53	1.53
C217	2.37	2.37
C301	1.5	1.5
C302	1.8	1.8
C303	0.73	0.73
C304	0.9	1.19
C305	0.91	1.06
C306	1.2	1.3
C307	2.6	2.6
C308	2.57	2.57
C309	0.94	2.83
C310	1.78	1.78
C311	1	1
C315	1.38	0.83
C316	0	0
C317	0	0
C318	1.96	1.91
C319	1	1.17
C322	1.23	1.36

C323	2.7	2.7
C324	2.87	1.91
C325	0	3
C327	1.44	1.44
C332	0	1.08
C401	0	0
C402	2.53	2.53
C403	2.47	1.78
C404	2.53	2.53
C405	2.2	2.2
C406	2.47	2.47
C408	2.05	2.28
C409	2.33	2.33
C410	3	2.67
C411	2.83	2.52
C413	1.22	1.22
C416	0	0
C417	0	0
C418	0	0
C419	1.87	1.4
C422	2.49	2.31
C425	2.76	2.46
C431	0	0

PSO Attainment Indirect

Survey	PSO1	PSO2
Alumnae	2	3
Parent	3	3
Exit	3	3
Employer	3	3
Governing Body	3	3

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.62	1.67
InDirect Attainment	2.8	3

4 STUDENTS' PERFORMANCE (100) Total Marks 86.61

Institute Marks :

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2023-24 (CAY)	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)	2019-20 (CAYm4)	2018-19 (CAYm5)	2017-18 (CAYm6)
Sanctioned intake of the program(N)	192	191	194	180	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	192	191	194	181	180	182	180
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	20	20	18	19	18	36
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	192	211	214	199	199	200	216

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2023-24 (CAY)	192				
2022-23 (CAYm1)	211	156			
2021-22 (CAYm2)	214	150	150		
2020-21 (CAYm3)	199	127	134	130	
2019-20 (LYG)	199	135	131	129	128
2018-19 (LYGm1)	200	144	147	143	142
2017-18 (LYGm2)	216	134	154	131	116

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2023-24 (CAY)	192				
2022-23 (CAYm1)	211	191			
2021-22 (CAYm2)	214	194	212		
2020-21 (CAYm3)	199	180	198	198	
2019-20 (LYG)	199	180	198	197	193
2018-19 (LYGm1)	200	180	197	197	194
2017-18 (LYGm2)	216	180	213	210	194

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2023-24 (CAY)	192	192	100.00
2022-23 (CAYm1)	191	191	100.00
2021-22 (CAYm2)	194	194	100.00

Average [(ER1 + ER2 + ER3) / 3] : 100.00

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (20)

Total Marks 14.18

4.2.1 Success rate without backlogs in any semester / year of study (15)

Institute Marks : 9.45

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	199.00	200.00	216.00
Y Number of students who have graduated without backlogs in the stipulated period	128.00	142.00	116.00
Success Index [SI = Y / X]	0.64	0.71	0.54

Average SI [(SI1 + SI2 + SI3) / 3] : 0.63

Assessment [15 * Average SI] : 9.45

4.2.2 Sucess rate in stipulated period (5)

Institute Marks : 4.73

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	199.00	200.00	216.00
Y Number of students who have graduated in the stipulated period	193.00	194.00	194.00
Success Index [SI = Y / X]	0.97	0.97	0.90

Average SI[(SI1 + SI2 + SI3) / 3]: 0.95

Assessment [5 * Average SI] : 4.73

Note : If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Second Year (10)

Total Marks 7.33

Institute Marks : 7.33

Academic Performance	CAYm1 (2022-23)	CAYm2 (2021-22)	CAYm3 (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	6.28	8.00	7.81
Total number of successful students (Y)	212.00	198.00	198.00
Total number of students appeared in the examination (Z)	214.00	198.00	199.00
API [X * (Y/Z)]	6.22	8.00	7.77

Average API [(AP1 + AP2 + AP3)/3] : 7.33

Assessment [AverageAPI] : 7.33

4.4 Placement, Higher Studies and Entrepreneurship (30) Total Marks 25.10

Institute Marks : 25.10

Item	CAYm1(2022-23)	CAYm2(2021-22)	CAYm3(2020-21)
Total No of Final Year Students(N)	197.00	197.00	210.00
No of students placed in the companies or goverment sector(X)	164.00	160.00	143.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	16.00	9.00	11.00
No of students turned enterpreneur in engineering/technology (Z)	0.00	0.00	1.00
Placement Index [(X+Y+Z)/N] :	0.91	0.86	0.74

Average Placement [(P1 + P2 + P3)/3] : 0.84

Assessment [30 * Average Placement] : 25.10

Program Name : Electronics & Communication Engg.
Assessment Year : 2022-23 (CAYm1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Harshini Bestha	19251A0480	Dextara	OID: DX-09-09-237, 13 -09-2022
2	Jangalapelli Sathwika	19251A0482	Dextara	OID: DX-09-09-238, 13-09-2022
3	Aarthi Reddy Kandi	19251A0485	MPC Cloud Consulting PVT LTD	MPC/India/O0228,18-07-2023
4	Lahari kuteddula	19251A0486	CGI	CIN:U72200KA1990PTC019138, 02-12-2022
5	M. Charitha	19251A0488	Quantium	12/12/2022
6	M.Nagacharisma	19251A0489	DXC Technology	7/31/2023
7	Mailaram Vani	19251A0490	Deloitte	10/3/2023
8	Medhavath Sneha	19251A0491	Prodapt	1/5/2023
9	Chandana Mediboyina	19251A0492	JPMORGAN CHASE & CO	3/6/2023
10	Middela Pragnasri	19251A0494	Accenture	C11903073,24-04-2023
11	Modium Madhurya	19251A0495	CGI	CIN: U72200KA1990PTC019138, 15-12-2022
12	Mounika Pamarti	19251A0496	Providence	10/4/2022
13	Mugala Naveena	19251A0497	Ford	Ref No: 7432923,10-01-2023
14	Sathanya Lalitha Reddy Nallamill	19251A0499	EY India	5/7/2023
15	Nookala Usha Kiran	19251A04A1	Colruyt Group	CIN: U72300TG2007PTC053130, 03-05-2023
16	Avantika Pokala	19251A04A2	Mindtree	10/28/2022
17	Pallavi Pasula	19251A04A3	JPMORGAN CHASE & CO	3/10/2023
18	Polaveni Soumya	19251A04A4	Deloitte	5/14/2023
19	Potukuchi Ajita	19251A04A5	PWC	Ref. No: 101442700, 26-07-2023
20	Returi Nehata Sreeya	19251A04A6	Deloitte	10/3/2023
21	Rahena Mohammad	19251A04A7	Stellantis	6/12/2023
22	Reena G	19251A04A8	DXC Technology	7/31/2023
23	Samudrala Shiny	19251A04B1	Capgemini	Superset ID: 3521644, 18-12-2022
24	Shaik Rukhsana Tabassum	19251A04B3	Prodapt	1/5/2023
25	Kiranmai Tarlada	19251A04B6	State Street	12/5/2022
26	V Meghana	19251A04B7	Deloitte	5/29/2023
27	Sachitha Sharma Vamanabhatla	19251A04B8	PWC	Ref. No: 101442609, 26-07-2023
28	Vemula Siva Shahitha	19251A04C0	AT&T	CIN:U64203DL1996PTO78375, 14-12-2022
29	Abbathini Soumya	19251A04C1	Deloitte	5/12/2023
30	Amireddy Manaswini	19251A04C2	Deloitte	5/12/2023
31	Arisetty Sri Ramani	19251A04C3	Quantium	12/12/2022
32	Arwapally Likhitha	19251A04C4	Deloitte	10/3/2023
33	Bettela Sruthi	19251A04C5	Deloitte	10/3/2023
34	Baddala Kundana	19251A04C6	Deloitte	10/2/2023
35	Meghana Battula	19251A04C7	Prodapt	1/5/2023
36	Bugganolla Meghana	19251A04C8	EY India	5/9/2023
37	Chakravarthula Sharanya	19251A04C9	EY India	5/16/2023
38	Divya Vanam	19251A04D1	EY India	5/9/2023
39	Sravya Gajjala	19251A04D3	Micron	9/13/2022
40	G. BhanuSri	19251A04D4	Shure Audio Technologies Pvt Ltd	4/20/2023
41	Saroja Gajula	19251A04D5	Prodapt	12/8/2023
42	M Jahnavi	19251A04D6	Deloitte	10/3/2023
43	Jarupla Usha Kiran	19251A04D8	Dextara	OID: DX-09-09-242, 13-09-2022
44	Kotha Amrutha	19251A04D9	Prodapt	1/5/2023
45	Sai Manisha Koyyada	19251A04E0	EY India	5/7/2023
46	Katakam Mahimasri	19251A04E1	EY India	5/6/2023

47	Korimi Sathvika	19251A04E2	Shure Audio Technologies Pvt Ltd	4/20/2023
48	Mekala Kavya	19251A04E3	EY India	5/6/2023
49	Mallidi Sneha Chowdary	19251A04E5	Stellantis	6/12/2023
50	Manda Hephsiba	19251A04E6	Deloitte	5/15/2023
51	Maringanti Praneetha	19251A04E7	Ford	Ref No: 7432931, 10-01-2023
52	Masini Chaitanya	19251A04E8	Quantium	12/12/2022
53	Tallapally Meghana	19251A04E9	Deloitte	10/3/2023
54	Mekala Sai Vyshnavi	19251A04F0	PWC	Ref. No: 101443002, 26-07-2023
55	Mettu Bhavana Reddy	19251A04F1	Quantium	12/12/2022
56	Deepika Motlakunta	19251A04F3	Franklin Templeton	6/19/2023
57	Nunna Lakshmi Chaitra	19251A04F4	EY India	5/15/2023
58	Nainala Poojitha	19251A04F6	Accenture	C12237649, 31-08-2023
59	Hanisha Orampati	19251A04F7	Cognizant	Superset ID: 2861764,25-11-2022
60	Pothula Harsha Veena	19251A04F9	Telstra	6/28/2023
61	Vasavi Sai Suma Pandalaneni	19251A04G2	Accenture	C12233150, 31-08-2023
62	Pendker Greeshma	19251A04G3	Prodapt	1/5/2023
63	Rucha Dhodapkar	19251A04G6	JPMORGAN CHASE & CO	3/15/2023
64	S.Supriya	19251A04G7	Prodapt	1/5/2023
65	Upasana Seella	19251A04G8	DXC Technology	7/31/2023
66	Shaik Reehana	19251A04G9	Deloitte	10/3/2023
67	Shikari Vaishnavi	19251A04H1	PWC	Ref. No: 101442700, 26-07-2023
68	Shravani Madhunala	19251A04H2	Micron	10/6/2022
69	T Gayathri	19251A04H3	Deloitte	10/3/2023
70	Meghana Tiruvuru	19251A04H4	Prodapt	1/5/2023
71	Thalluri Siri	19251A04H6	Accenture	C11887678, 04-10-2023
72	Sabitha Thumma	19251A04H7	Mindtree	10/26/2022
73	V Pavitra	19251A04H8	Providence	10/4/2022
74	Vasavi Sai Suma Pandalaneni	19251A04J0	Accenture	C12233150, 31-08-2023
75	Bonala Likhitha	20255A0401	Franklin Templeton	6/19/2023
76	Shruthi Jillela	20255A0402	Telstra	6/28/2023
77	Thokala Pavani	20255A0403	Infor (India) Private Limited	Ref No: Hyd/HR/R&S/OL/23/3052, 05-06-2023
78	Srigada Sathwika	20255A0404	Deloitte	10/3/2023
79	Hemavathi Kunchala	20255A0405	Accenture	C12187700, 22-08-2023
80	Suneetha Bisai	20255A0406	Cognizant	Superset ID: 2873323, 25-11-2022
81	S.Keerthana	20255A0408	Colruyt Group	CIN:U72300TG2007PTC053130,03-05-2023
82	Hrushitha Lade	20255A0409	EY India	5/7/2023
83	Gouda Neeraja	20255A0410	Deloitte	10/2/2023
84	Begari Deeksha	20255A0411	Capgemini	Superset ID: 3535458, 18-12-2022
85	Marla Laya Madhuri	20255A0412	EY India	5/7/2023
86	Dasari Naha	20255A0413	Prodapt	1/5/2023
87	Jaahnavi Peddapatla	20255A0414	Stellantis	6/12/2023
88	Nikhitha Kadari	20255A0416	Ford	Ref No: 7432937, 10-01-2023
89	Pooja Mahankali	20255A0417	CGI	CIN: U72200KA1990PTC019138, 25-11-2022
90	Amula Reshmitha	20255A0419	Ford	Ref No: 7432949, 10-01-2023
91	Abarrane Emmanual Pala	19251A0402	Educational Testing Service	15412372
92	Lalana Palwaye	19251A0432	Educational Testing Service	N0034404655
93	Sri Vaishnavi J	19251A0481	Educational Testing Service	N0034200715

94	SIRI Kesidi	19251A0487	Educational Testing Service	N0034051918
95	Amrutha Regalla	19251A04A9	Educational Testing Service	N0034054967
96	Akshitha Tunki	19251A04B4	Educational Testing Service	23027303
97	Shreya Thokala	19251A04B5	Educational Testing Service	2349407
98	Disha Potru	19251A04G0	Educational Testing Service	N0032380981
99	Divyasree Vammigari	19251A04H9	Educational Testing Service	4194681
100	Bhavana Marpadaga	20255A0407	Educational Testing Service	N0034412741
101	Meghana Balu	19251A0493	Educational Testing Service	N0035337603
102	Kanchi Pavithra	18251A0441	EY INDIA	5/8/2023
103	Srikakolapu Harshini	18251A0484	Deloitte	10/3/2023
104	Arava Vedabhishikta	19251A0401	Micron	10/6/2022
105	Alekhya Pathak	19251A0403	Deloitte	10/3/2023
106	Bayapureddy Geetha Vani	19251A0404	Cognizant	Superset ID:2862977, 25-11-2022
107	Sathvika Basireddygari	19251A0405	Stellantis	8/2/2023
108	Boin Prashamsa	19251A0406	EY INDIA	5/15/2023
109	Varshini Boorla	19251A0407	JPMORGAN CHASE & CO	3/11/2023
110	B Jahnavi	19251A0408	Prodapt	1/5/2023
111	Chavva Kiranmai	19251A0409	Carrier Corporation	9/14/2022
112	Yashashwini Chenamalla	19251A0410	StateStreet	12/19/2022
113	Chinnala Anusha	19251A0411	Cognizant	Superset ID:2861764, 25-11-2022
114	Deekonda Eshwari	19251A0412	Telstra	6/28/2023
115	Sai Sindhu Esa	19251A0414	Freyr Energy Services Pvt. Ltd	3/30/2023
116	Jyosthna Preethi Gandi	19251A0416	Cognizant	Superset ID:3535398, 25-11-2022
117	Srivani Ganta	19251A0417	Indus Towers	9/4/2023
118	Jadapalli Yashaswini	19251A0419	Deloitte	5/15/2023
119	Jarupula Vidya	19251A0420	PwC India	101445303, 08-12-2022
120	Juluri Anusha	19251A0421	Tektronix	12/15/2022
121	Hoyasala Devi Kannemadugu	19251A0422	Micron	10/6/2022
122	Karli Priyanka	19251A0423	State Street	6/28/2023
123	K Swathi	19251A0424	CGI	11/26/2022
124	kanugnati Jagruthi	19251A0425	Mindtree	10/31/2022
125	Kaipu Laxmi	19251A0426	Prodapt	1/5/2023
126	Kamireddy Keertimayee	19251A0427	State Street	7/12/2023
127	Kancharla Preethi Lilly	19251A0428	Deloitte	9/11/2023
128	katkoori Preethi	19251A0430	Capgemini	Superset ID:2879421, 17-12-2022
129	Kokkalakonda Nikhitha	19251A0431	Deloitte	8/31/2023
130	Lekhya Bayya	19251A0433	Ford	Ref No:7432861, 10-01-2023
131	Mahitha Tenneti	19251A0434	TCS	TCSL/CT20223846000/Pune, 22-12-2022
132	Mamindla Amulya	19251A0435	Deloitte	10/3/2023
133	Mohammed Sana	19251A0437	Ford	Ref No:7432835, 10-01-2023
134	Mukkisa Pranathi	19251A0438	EY India	5/25/2023
135	Pavitra N	19251A0439	Cognizant	Superset ID:2861764, 25-11-2022
136	Uttara Nanduri	19251A0440	PwC India	Ref No: 101445316, 03-08-2023
137	Nenavath Pooja	19251A0441	LTI Mindtree	1/16/2023
138	Shruthika Keethi Perka	19251A0442	Cognizant	Superset ID:3629908, 25-11-2022
139	Palwai Shloka Reddy	19251A0443	EY India	5/8/2023
140	Jagruthi Pillalamarri	19251A0444	Ford	Ref No:7432887, 10-01-2023

141	Sushma S	19251A0446	Franklin Templeton	6/19/2023
142	Sai Priya Kamuni	19251A0447	AT&T	7/25/2023
143	Sai Sunidhi Pabba	19251A0448	State Street	12/1/2022
144	Shaik Shayastha	19251A0449	Deloitte	10/3/2023
145	Spoorthi G Kunch	19251A0450	Prodapt	1/5/2023
146	Pranati Tantravahi	19251A0451	Deloitte	10/3/2023
147	Telugu Hemalatha	19251A0452	EY India	5/7/2023
148	Thiramdasu Sucharitha	19251A0453	Quantium	12/12/2022
149	Thurlapati Harini	19251A0454	Deloitte	5/18/2023
150	Spoorthi Reddy Tummalapalli	19251A0455	Quantium	12/12/2022
151	Likitha Reddy Venna	19251A0456	Cognizant	Candidate ID: 26927136, 25-10-2023
152	Varala Namitha Patel	19251A0460	Carrier Corporation	9/14/2022
153	Akoju Srinidhi	19251A0462	Capgemini	Ref No: 7996501/1747903, 19-12-2023
154	Ameena Juhi	19251A0463	Prodapt	12/8/2023
155	Bandlamudi Sathvika	19251A0464	Dextara	OID: DX-09-09-242, 13-09-2022
156	Nihalini Reddy Baddam	19251A0465	Accenture	C12033601,26-06-2023
157	Akhila Basu	19251A0466	Accenture	C11887680, 04-10-2023
158	Billa Keerthana	19251A0467	State Street	11/15/2022
159	Neha Chadive	19251A0468	JPMORGAN CHASE & CO	3/13/2023
160	Pavani Chowla	19251A0469	JPMORGAN CHASE & CO	3/14/2023
161	Ciluveru Haripriya	19251A0470	Franklin Templeton	6/19/2023
162	G Meghana	19251A0472	AT&T	U64203DL1996PTO78375,14-12-2022
163	Gorripotu Tejaswini	19251A0474	Deloitte	5/18/2023
164	Gaddam Chaitanya	19251A0475	Prodapt	1/5/2023
165	Gujarathi Shalini	19251A0477	Accenture	C12178665,17-08-2023
166	Guncheti Niharika	19251A0478	Capgemini	Superset ID:2849745, 18-12-2022
167	Gundala Koustubha	19251A0479	Deloitte	10/3/2023
168	DONTHULA BHAVANA YADAV	19251A0413	Optum	21-02-2024
169	NENAVATH KALAVATHI	19251A04A0	Technosoft Solutions	24-11-2024
170	VADITHAVATH AKANKSHA	19251A0459	Wipro	ID:27647898
171	MUVVA HASMITHA	19251A0498	Optum	22-02-2024
172	ROSHINI MANCHINA	19251A04E4	Deloitte	03-10-2023
173	G DEEPSHIKHA	19251A0415	Oliva	06-11-2023
174	PRIYANKA	19251A0445	HCL Technology	12-11-2023
175	P BHARGAVI	19251A04F8	Wave Aviators_Pilot Training	ID:10121
176	P SATYA PRIYANKA	19251A04G4	MS_INDIANA University	24099671345100
177	ROMMULA SHRUTHI	19251A04G5	IIIT Kanchipuram_ M Tech	EC23M1001
178	SAI SATHVIKA DARAVATH	19251A04B0	MBA_IIIT Tiruchurappalli	IIM234032
179	SHAIK JUVERIYA	19251A04B2	GATE	GATE SCORE_643
180	KAPPALA MANUSHA	19251A0429	PROMOCIO	12-06-2023

Assessment Year : 2021-22 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	YASHIKA REDDY MALLEPALLY	18251A0475	Cognizant	Candidate ID – 19927531, 28-01-2022
2	BANKA BHAVANA	18251A0403	Ford Motors	4296575 , 21-03-2022
3	BANDELA SHIRLENE ROSE	18251A0404	JPMC	5/17/2022
4	C. KRISHNA PRIYA	18251A0405	State Street	6/17/2022
5	DIKSHA NAVAL	18251A0407	Accenture	C10965546, 30-04-2022
6	DUGGIRALA GLORY	18251A0408	Accenture	C10966467, 03-05-2022
7	GAJAWADA RUCHITHA	18251A0409	Accenture	C10965549, 30-04-2022
8	GRANDHI SRIVALLI SARANYA	18251A0410	Optum	6/28/2022
9	K RUTHIKA	18251A0413	Accenture	C10965545, 30-04-2022
10	PRATHYUSHA KASAM	18251A0414	STATE STREET	6/15/2022
11	M.GUNASHREE VALMIKI	18251A0415	Cognizant Gen C	Candidate ID – 19927548, 28-01-2022
12	CHAREESHMA MITTAPALLY	18251A0416	Deloitte	4/28/2022
13	G S L MANASWINI	18251A0418	Cognizant GenC	Candidate ID – 199761934,20-04-2022
14	MULAKA SUPRIYA	18251A0419	Accenture	C10965548, 30-04-2022
15	PARASAGANI SRIVIDHYA	18251A0421	Deloitte	4/28/2022
16	NUTHANAGANTI PAVANI	18251A0422	COGNIZANT GENC	Candidate ID – 19925820, 28-01-2022
17	REDYAM BHARGAVI	18251A0424	chetak	6/7/2022
18	SAMREEN SULTANA	18251A0425	Cognizant genc	Candidate ID – 19927557, 28-01-2022
19	SIDDI.AKSHITHA	18251A0426	Ford	Candidate ID : 4296587,21-03-2022
20	SAMMETA ASWITHA	18251A0427	Cloud 4C	12/30/2021
21	THUMPUDI N V D MOUNICA	18251A0429	Accenture	C10989742, 28-04-2022
22	VINATHI GANJI	18251A0430	JPMC	5/12/2022
23	AIESHA SHAIK	18251A0431	JPMC	11/8/2021
24	Bhimireddy Gayathri	18251A0433	Persistant	1/14/2022
25	CHATAKONDU JAHNAVI	18251A0435	Infosys	HRD/NOBA/1004309602, 11-06-2022
26	CHINTAMALLA.MANASVINI ABHIGNA	18251A0436	Deloitte	4/25/2022
27	CHEKURI SAI SRI KEERTHANA	18251A0437	Optum	6/27/2022
28	EDLA MANICHANDANA	18251A0438	Accenture	C10989743, 28-04-2022
29	GIKKULA TEJASREE	18251A0439	Cognizant Genc	Candidate ID – 19761916, 24-04-2022
30	POLEPALLE CHENNA LAKSHMI HARIKA	18251A0440	Cognizant	Id:19549995, 13-04-2022
31	KOPPARTHI VENKATA PUJITHA	18251A0443	Zenoti	8/16/2022
32	KUCHI L.S.RASAGJNA	18251A0444	Persistent	reference:persistent/campus/1590463/3.0 , 17-01-2022
33	MALLIDI AKHILA	18251A0445	State Street	6/14/2022
34	MALLIREDDY DIVYA	18251A0446	Ford	Candidate ID : 4296589, 21-03-2022
35	MALE BHAVYANJALI	18251A0447	Deloitte	8/3/2022
36	MANDALA NIKHILA	18251A0448	State Street	6/13/2022
37	NUTHULA SUHARSHA	18251A0451	Ford	Candidate ID : 4296607, 22-03-2022
38	POREDDY PRANATHI	18251A0452	Deloitte	5/18/2022
39	PURAM NIHARIKA	18251A0453	Cognizant Genc	Candidate ID – 19763503, 24-04-2022
40	SIDDANAGATTU VYSHNAVI	18251A0455	Accenture	C10965550, 30-04-2022
41	SUBBAREDDYGARI SHREYA REDDY	18251A0456	ServiceNow	6/28/2022
42	SURABHI AKSHITHA	18251A0457	Cognizant genc elevate	Candidate ID – 19935834, 28-01-2022
43	THEEPIREDDY SADHANA	18251A0458	AT&T	CIN: U64203DL1996PTO78375, 06-06-2022
44	YASMEEN BEGUM	18251A0460	TCS Digital	Ref: TCSL/CT20203466562/Hyderabad, 11-10-2021
45	KONDURU SRILEKHA	19255A0401	Accenture	C10965608,30-04-2022
46	KOWKURI SHIVANI	19255A0402	Cognizant Genc	Candidate ID – 19927550,28-01-2022

47	P RENUKA	19255A0403	Wipro	1/24/2022
48	ANANTHA TRIVENI	19255A0404	Medha servo drives	20-01-2021(interview held)
49	R MAHALAKSHMI	19255A0405	Synopsys	6/2/2022
50	ERRABOTHU MAMATHA	19255A0406	Harman	1/31/2022
51	GARUDADRI CHINMAYEE VARMA	18951A0440	S&P Global	4/12/2022
52	ANJALI SHARMA	18251A0462	Deloitte	6/24/2022
53	BIRUDAVOLU PRANATHI	18251A0463	Deloitte	4/25/2022
54	BANNURU SREEJA	18251A0464	Cognizant	Candidate ID – 19763411,11-04-2022
55	VOOHITHA BOJJA	18251A0465	Deloitte	6/27/2022
56	U ANANYA SAI	18251A0467	Cognizant	Candidate ID – 19776050, 02-05-2022
57	Paidiwar Shivani	18251A0468	Wipro	1/26/2022
58	SRUTHIKA DOPATHIREDDY	18251A0469	Accenture	C10992128,28-04-2022
59	GOLI SAI LAKSHMI JYOTHIKA	18251A0470	Carrier corporation	11/22/2021
60	KANIKARAM RAMYA HARINI	18251A0471	optum	6/27/2022
61	KAITHOJU BHARGAVI	18251A0472	Tata Elxsi	4/5/2022
62	KOTTHA AKHILA	18251A0473	Cognizant	Candidate ID – 19761932, 10-04-2022
63	MADDIKUNTLA SAISRI	18251A0476	Wipro	7/4/2022
64	Manchala Shailaja	18251A0477	Deloitte	7/29/2022
65	MAREBOINA JEEVANI	18251A0478	JP Morgan Chase	5/16/2022
66	SANJANA REDDY NELLIPALLI	18251A0479	Optum	6/27/2022
67	PALLAVI GUDDETI	18251A0482	Ford	Candidate ID : 4296591,21-05-2022
68	Pullannagari Sai Priya	18251A0483	Deloitte	7/30/2022
69	SHERI KEERTHI REDDY	18251A0485	State Street	6/17/2022
70	VISWANADHUNI SUMA LAHARI	18251A0487	Accenture	C10965556,30-04-2022
71	VANJARI MASTIYAR HIRANYA	18251A0488	Accenture	C10989746,28-04-2022
72	VENNAPUSA BHAVIKA	18251A0489	State Street	6/17/2022
73	YEKA VENKATA SNEHA PRABHA	18251A0490	Visa	6/4/2022
74	ADDEPALLI SRI BALA SRAVYA	18251A0491	AT & T	17-06-2022
75	AYUSHI BANERJEE	18251A0492	Deloitte	6/26/2022
76	BUDURU.PRATHYUSHA	18251A0493	Deloitte	8/3/2022
77	BANOTHU HARIKA	18251A0495	Accenture	C10965557, 30-04-2022
78	Batikiri Anuradha	18251A0496	Accenture	C10965553, 30-04-2022
79	BHARATHI JATAVATH	18251A0497	Accenture	C10965554, 30-04-2022
80	CHIKKAVARAPU PRANATHI	18251A0498	TCS	Ref: TCSL/CT20213733178/Hyderabad, 12-11-2021
81	D. SHREYA	18251A0499	Deloitte	6/27/2022
82	G AMOGHA	18251A04A0	Deloitte	6/24/2022
83	Kandari Vaishnavi	18251A04A2	Optum	7/21/2022
84	MANCHIREVULA SREESHMA	18251A04A4	Accenture	C10965555,30-04-2022
85	MADASU AKANKSHA	18251A04A5	Deloitte	5/17/2022
86	MADHUGONDAPALLEY SAI LIKHITHA	18251A04A6	Optum	7/18/2022
87	Satya Sai Bhargavi	18251A04A7	Cognizant	Candidate ID – 19925915, 28-01-2022
88	N.ASHA	18251A04A8	Deloitte	7/29/2022
89	NIKHITHA MIRYALA	18251A04A9	Deloite	5/18/2022
90	SNIGDHA PANNIR	18251A04B0	Persistant	Reference: Persistent/Campus/1527079/3.0, 14-01-2022
91	PANYAM TEJASWINI REDDY	18251A04B1	Accenture	C10992223, 30-04-2022
92	PINDI NAVYA SREE	18251A04B2	Telstra	6/22/2022
93	Remidala Triveni	18251A04B3	Medtronic	Workday ID:546797,08-08-2022

94	SAMI UNNISA BEGUM	18251A04B4	Colruyt India	CIN: U72300TG2007PTC053130, 23-05-2022
95	SHILIVERU SUSHMA	18251A04B5	Rockwell Automation	1/28/2022
96	VELISHALA ANUSHA	18251A04B8	State Street	6/17/2022
97	Y SHRIYA REDDY	18251A04B9	Cognizant	Candidate ID – 19927547, 28-01-2022
98	YERROLLA SHARON PRIYANKA	18251A04C0	Virtusa	5/26/2022
99	Rekha Ray	19255A0410	JISNU	5/5/2022
100	GURUDU SARASWATHI	19255A0411	TCS	Ref: TCSL/CT20213738591/Hyderabad, 10-11-2021
101	YERRAMAISAGALLA MADHURI	19255A0412	Infosys	HRD/3T/1003130610/22-23, 26-06-2022
102	A JAATHYA	18251A04C1	Accenture	C10965560,30-04-2022
103	ANCHURI KAVYA SREE	18251A04C2	Statestreet	6/16/2022
104	ALUGUBELLI LIKITHA REDDY	18251A04C3	AT&T	CIN: U64203DL1996PTO78375, 17-06-2022
105	RITHIKA BATHINI	18251A04C4	IBM	IN_150_460571BR_6980390, 09-12-2021
106	BOLLA CHANDANA	18251A04C6	Accenture	C10965559, 30-04-2022
107	BOLLIPALLY SRIJA	18251A04C7	AT&T	CIN: U64203DL1996PTO78375, 17-06-2022
108	CHINTHAKINTLA NITHYA REDDY	18251A04C8	Accenture	C10965561, 30-04-2022
109	DURGEMPUDI JISHITA REDDY	18251A04C9	Deloitte	4/28/2022
110	EGA NAVYA	18251A04D0	Cognizant	Candidate ID – 19927525, 28-01-2022
111	THOMMANDRU GURU YASHASREE	18251A04D1	Persistent Systems	Reference: Persistent/Campus/1526740/3.0, 14-01-2022
112	J MOUNIKA	18251A04D2	Cognizant	Candidate ID – 19719266, 12-04-2022
113	KUSAMPUDI SRICHARITA	18251A04D3	OPTUM	6/28/2022
114	KOPPULA RISHITHA	18251A04D5	Optum	7/22/2022
115	KRISHNAMURTHY NAVYATHA	18251A04D6	AiZen Algo	10/25/2021
116	M.VARSHA	18251A04D7	Ford	Candidate ID : 4296651, 22-03-2022
117	MUKKA SRIHITHA	18251A04D8	JPMC	5/12/2022
118	MUDAVATH ANITHA	18251A04D9	Cognizant	Candidate ID – 19761939, 02-05-2022
119	MUNIGANTI ROHINI	18251A04E0	Educational Testing Service	KAN214F00100001
120	PISUPATI SAI VALLI SHIVANI	18251A04E1	Colruyt	CIN:U72300TG2007PTC053130, 23-05-2022
121	PATIBANDLA KAVYA	18251A04E2	Accenture	4/30/2022
122	PURANAM SRIDEVI	18251A04E3	Accenture	C10965567, 30-04-2022
123	NINI MULY	18251A04E4	Accenture	C10965563, 30-04-2022
124	SABA	18251A04E5	Deloitte	8/8/2022
125	SHAIK RABIYA NIKHAT	18251A04E6	Carrier	7/18/2021
126	NAGA PRANATHI TODIMALA	18251A04E7	Deloitte	8/1/2022
127	THALOKOKULA SHRAVANI	18251A04E8	Accenture	C10965568, 30-04-2022
128	VANGALA KEERTHANA	18251A04E9	Deloitte	8/3/2022
129	YERRAMSETTY SAHITHI	18251A04F0	Deloitte	8/1/2022
130	Prathyusha A C V	18251A04F1	Cognizant	Candidate ID – 19927565, 28-01-2022
131	N.VYSHNAVI	18251A04F2	Accenture	C10965565, 30-04-2022
132	B Vineela	18251A04F5	Infosys	HRD/3T/1002511356/22-23, 26-06-2022
133	CHALLA SAI AASRITHA	18251A04F6	ModelN	1/27/2022
134	CHELMEDA AKHILA	18251A04F8	Accenture	C10965564, 30-04-2022
135	DONTHULA LAYA	18251A04F9	Cognizant	Candidate ID – 19778922, 23-04-2022
136	GOLEM SAMANVITHA	18251A04G0	Optum	6/27/2022
137	GURRALA NIKHITHA	18251A04G1	Deloitte	7/29/2022
138	SAACHIKA REDDY KUNUTHUR	18251A04G2	Wipro	1/21/2022
139	KALYANI JAHNAVI	18251A04G3	Deloitte	7/29/2022
140	Amulya Kompally	18251A04G4	Infosys	HRD/3T/1002901929/22-23, 01-07-2022

141	KOTHAPALLI SAI THAPASWINI	18251A04G5	Deloitte	8/1/2022
142	MALLANNAGARI PADMASREE	18251A04G7	State Street	6/15/2022
143	OBILI CHERISHMA	18251A04H0	Deloitte	4/25/2022
144	POREDDY VINITHA REDDY	18251A04H1	Optum	6/29/2022
145	PERAVALI APOORVA	18251A04H2	Accenture	C10965573, 30-04-2022
146	RAHEELA TAJ	18251A04H3	Micron	6/28/2022
147	SANNITHI CHIDVILASYA	18251A04H4	Synopsys	6/2/2022
148	THIGIREDDY SRI BHAVANI	18251A04H7	Optum	7/19/2022
149	THALLURI SAI SRI	18251A04H8	ModelN	1/27/2022
150	VAVILALA AKSHITHA	18251A04H9	Cognizant	Candidate ID – 19927536, 28-01-2022
151	RAMAGONI CHANDANA	19255A0413	Carrier Corporation	7/18/2021
152	KARRE RAMYA	19255A0414	Wipro	4/5/2022
153	MOHMAD NADIYABEGUM	19255A0415	State Street	6/13/2022
154	CHERVIRALA DHARANI	19255A0416	Cognizant	Candidate ID – 19927524, 28-01-2022
155	Nalandeshwrari Buridi	19255A0417	Wipro	1/22/2022
156	KANDLIKAR UJWALA	18D21A0473	Deloitte	7/29/2022
157	Vanam Mouna	18251A04B7	Educational Testing Service	N0033177857
158	Nimisha Reddy Kolukuri	18251A0411	Educational Testing Service	N0032964891
159	Gayathri Vutla	18251A0459	Educational Testing Service	N0033221252
160	MUDRAKOLA MANSI RAO	18251A04G9	Educational Testing Service	6173732711
161	Chintha Bhargavi	18251A04F7	Educational Testing Service	224134
162	Harshini S	18251A0454	Educational Testing Service	EC22S31408457
163	T.Harshitha	18251A04H6	Educational Testing Service	N003314883
164	BANOTH SAILAJA	19255A0418	Wipro	05-05-2022
165	BADAVATH AKHILA	18251A0432	DXC Technology	16-12-2022
166	SRIKAKOLAPU HARSHINI	18251A0484	Deloitte	14-04-2023
167	K S SANKEERTHANA	18251A0412	Hamstech	23HP010469_P4/23
168	KODAKANCHI BHAVANI	18251A04D4	DXC Technology	23-04-2023
169	BAJJURI SRIYA	18251A0494	MBA_IFHE	22BPHH01C0258

Assessment Year : 2020-21 (CAYm3)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Navyasri Tanguturi	17251A0487	SocGen	8/12/2021
2	Vaishnavi Rudraraju	17251A0488	TCS	TCSL/CT20203021488/HYDERABAD, 11-01-2021
3	Rohitha Krishna Vemula	17251A0489	Accenture	C9329429, 25-03-2021
4	Adiraju Gayathri	17251A0491	SocGen	3/31/2021
5	Akanksha Gaddam	17251A0492	Accenture	C10224764, 08-10-2021
6	Venkata Navya Ananthu	17251A0493	CGI	5/12/2021
7	Bhavana Bollampally	17251A0494	L&T TS	LTTS-MYSORE/HR/339095, 24-09-2021
8	Shanmukha Vyshnavi Karanam	17251A0497	Accenture	C9329428, 25-03-2021
9	Rajashri Katta	17251A0498	TCS	TCSL/CT20203477154/HYDERABAD, 11-01-2021
10	Kondaparthi Ramya	17251A0499	Accenture	C9801306, 22-07-2021
11	Momika Ganguly	17251A04A2	Deloitte	8/26/2021
12	Vineela Neelam	17251A04A4	Accenture	C9395568, 13-04-2021
13	Nunna Bharathi Sri Divya	17251A04A5	CGI	8/4/2021
14	Swetha Nyalam	17251A04A6	Statestreet	6/17/2021
15	P Sushmitha	17251A04A7	Deloitte	8/24/2021
16	Pabboju Girija Dakshayani	17251A04A8	TCS	TCSL/CT20203477588/HYDERABAD, 11-01-2021
17	Rentala Sri Nilayaa	17251A04B1	Accenture	C9746142, 12-07-2021
18	Sahithi Gudi	17251A04B3	TCS	TCSL/DT20206533954/HYDERABAD, 11-01-2021
19	Nikhitha Sowdamalla	17251A04B5	CGI	8/4/2021
20	Srikrupa Rachakonda	17251A04B6	wipro	7/27/2021
21	Rashmika Thota	17251A04B7	CGI	5/11/2021
22	Velagala Spandana	17251A04B9	Colruyt	6/23/2021
23	Vittanala Satya Sri	17251A04C0	Accenture	C9329432, 25-03-2021
24	Amrutha Sai Edara	17251A04C1	Accenture	C9746184, 12-07-2021
25	Dharani Dodda	17251A04C3	Mindtree	6/18/2021
26	Dodda Vyshali	17251A04C4	Accenture	C9746156, 12-07-2021
27	Jahnavi Eskala	17251A04C5	TCS	TCSL/CT20203468462/HYDERABAD, 11-01-2021
28	Gajawada Anjana Devi	17251A04C6	Unschool	12/27/2020
29	Garnapalli Shreya	17251A04C7	CTS	15553986, 26-08-2021
30	Sravya Gayathri Gottuparthi	17251A04C9	MassMutual	7/1/2021
31	Gujja Shruthi Reddy	17251A04D0	Deloitte	8/27/2021
32	Kavuri Navya	17251A04D2	Accenture	C9319911, 23-03-2021
33	Chittepu Charishma Reddy	17251A04D4	Colruyt	6/23/2021
34	Akshaya M	17251A04D5	Accenture	C9395570, 13-04-2021
35	Mitnasala Sreeshma	17251A04D7	CTS	16286938, 26-08-2021
36	Mahammad Shajrah	17251A04D8	Accenture	C9762648, 14-07-2021
37	Naikoti Rushali	17251A04D9	Deloitte	8/27/2021
38	Neha Reddy Nelly	17251A04E0	Deloitte	8/23/2021
39	Nikhila Nethikunta	17251A04E1	Accenture	C9329431, 25-03-2021
40	Prathyusha Raghi	17251A04E3	Darwinbox	1/3/2021
41	Ramya Rampelli	17251A04E5	Ford	45955BR, 30-07-2021
42	Harshitha Rapolu	17251A04E6	Deloitte	8/24/2021
43	Sony Sayannagari	17251A04E7	Ford	47735BR, 30-07-2021
44	Tejasri Talari	17251A04E8	Accenture	C9319912, 23-03-2021
45	Sai Alekhya Bhukya	17251A04F1	Accenture	C9752197, 13-07-2021
46	Dasari Sumabala	17251A04F4	TCS	TCSL/DT20206683239/HYDERABAD, 11-01-2021

47	Kalpana Golla	17251A04F5	TCS	TCSL/DT/20206390205/HYDERABAD, 11-01-2021
48	Malavika Kasam	17251A04F7	CGI	8/4/2021
49	Angilena Rebecca Kondaveety	17251A04G0	Accenture	C9329433, 25-03-2021
50	L Nithisha	17251A04G1	Accenture	C9732446, 07-07-2021
51	M Sushmitha Reddy	17251A04G3	Infosys	HRD/3T/1001726424/21-22, 16-07-2021
52	Rizwana Begam Mohamood	17251A04G4	Accenture	C9789079, 20-07-2021
53	Beulah Manda	17251A04G5	Accenture	C10098227, 10-09-2021
54	Archana Meesala	17251A04G6	L&T TS	LTTS-MYSORE/HR/339321, 25-09-2021
55	Mettupalli Shalini Reddy	17251A04G7	Ford	47432BR, 30-07-2021
56	Rama Devi Modala	17251A04G8	Accenture	C9746159, 12-07-2021
57	Lohitha Reddy	17251A04G9	Accenture	C9862819, 05-08-2021
58	Sowmya Paladugula	17251A04H0	Accenture	C9329436, 25-03-2021
59	Sai Manasi Parankusam	17251A04H1	Accenture	C9416667, 20-04-2021
60	R V S Sri Sudha	17251A04H2	Deloitte	8/24/2021
61	Rasa Shivani	17251A04H3	Accenture	C10044488, 02-09-2021
62	Rishitha Sama	17251A04H4	Statestreet	6/17/2021
63	Somisetty Sahithi	17251A04H5	Deloitte	8/24/2021
64	Shreya Sivaram	17251A04H6	Google Operation	6/17/2021
65	chinmayee GVP	17251A04H7	Accenture	C9319914, 23-03-2021
66	Pravalika Sundari	17251A04H9	Statestreet	6/16/2021
67	Varaktam Niharika	17251A04J0	Accenture	C9923410, 25-08-2021
68	Kiranmai Burra	18255A0401	Accenture	C9395571, 13-04-2021
69	Thumma Kavyasri	18255A0402	TCS	TCSL/CT/20203260054/PUNE, 12-08-2021
70	Madhu Priya Jami	18255A0404	Bank of America	8/17/2021
71	Kummari Kavya	18255A0406	Accenture	C9319916, 23-03-2021
72	Nida Talveen	18255A0409	TietoEVRY	9/16/2021
73	Vulkundhkar Varsha	18255A0414	CTS	16316570, 26-08-2021
74	Tanuja Muthyala	18255A0415	Accenture	C9862793, 05-08-2021
75	Varalaxmi Bamini	18255A0417	L&T TS	LTTS-MYSORE/HR/339288, 25 -09-2021
76	Aarthi Mamidala	18255A0418	L&T TS	LTTS-MYSORE/HR/339263, 25-09-2021
77	Dasi Saritha	18255A0425	L&T TS	LTTS-MYSORE/HR/339203, 25-09-2021
78	Vanaparthy Keerthana	18255A0426	Accenture	C9395572, 13-04-2021
79	Pulluru Shanthi	18255A0427	Unschool	12/27/2020
80	Swathi Laxmi Chintagunta	18255A0429	Unschool	12/27/2020
81	Manasa Avunuri	18255A0433	L&T TS	LTTS-MYSORE/HR/339245, 25-09-2021
82	Kaja Niharika	17251A0468	Educational Testing Service	16317710
83	Sadhvi Reddy	17251A04E2	Kakatiya University	21AP0104
84	K Anisha Reddy	17251A0445	Educational Testing Service	1001979050
85	U B L Keerthana	17251A04E9	Kakatiya University	6073378
86	Chinmayee GVP	17251A0436	Educational Testing Service	N0031993415
87	S Vidya	17251A04B2	IIT, Kharagpur	EC21541409137
88	Mukku Bhavana	17251A0449	IIT, Kharagpur	21251D7802
89	M Mallika Reddy	17251A04A1	Kakatiya University	21BSPHH01C0537
90	Pogula Meghana Reddy	17251A04A9	Educational Testing Service	C2238226
91	Monica Battula	17251A0402	Infosys	HRD/3T/1001727135/21-22,23-08-2021
92	Balamaisu Prasanna	17251A0403	Infosys	HRD/3T/1001727086/21-22, 15-07-2021
93	Diksha Kaul	17251A0405	Bank of America	8/16/2021

94	Likhitha Jetta	17251A0406	L&T TS	LTTS-MYSORE/HR/339197, 24-09-2021
95	Bindu Madhavi Kamineni	17251A0407	Accenture	C9319902, 23-03-2021
96	Sai Bhanu Karru	17251A0408	Accenture	C9319904, 23-03-2021
97	Likhitha Kothrepally	17251A0409	Accenture	C9319906, 23-03-2021
98	Lakkireddy Swecha Reddy	17251A0410	CTS	17786095, 30-08-2021
99	Dheeksha Manya	17251A0411	TCS	TCSL/DT20206746273/MUMBAI, 11-08-2021
100	Jinthy Swetha Mamillapalli	17251A0412	Accenture	C9395567, 13-04-2021
101	Nabila Hashim	17251A0414	TCS	TCSL/CT2020311273/1425550/HYDERABAD, 15-06-2021
102	Ikya Nallapuneni	17251A0415	Accenture	C10237641, 27-10-2021
103	Nara Yamini	17251A0416	JPMC	6/10/2021
104	Praisy Padarthi	17251A0417	CTS	16129888, 26-08-2021
105	Ramavath Bindu Madhavi	17251A0418	Sonata	9/2/2021
106	S.SaiPranavi	17251A0419	TCS	TCSL/CT20203346006/HYDERABAD, 11-01-2021
107	Sai Aparna Bhimaraju	17251A0420	Deloitte	4/26/2021
108	Sana Tabassum	17251A0421	TCS	TCSL/DT20206542431/HYDERABAD, 11-01-2021
109	Najish Jaha Shaik	17251A0422	Infosys	HRD/3T/1001731459/21-22, 16-07-2021
110	Shirisha Meda	17251A0423	L&T TS	LTTS-MYSORE/HR/339071, 24-09-2021
111	Archana Somireddy	17251A0424	Accenture	C9319908, 23-03-2021
112	Sai Bhavana Thirthala	17251A0427	CGI	04-08-2021
113	Vallamulla Sreeja	17251A0428	Accenture	C9329422, 25-03-2021
114	Sai Sreeja Y	17251A0430	Deloitte	8/24/2021
115	Samritha Reddy Balam	17251A0431	Accenture	C9329424, 25-03-2021
116	Sree Pragna sai	17251A0432	Unschool	12/27/2020
117	Smita Vadana Bommera	17251A0434	Deloitte	8/27/2021
118	Sravya Cheedella	17251A0435	Accenture	C9329423, 25-03-2021
119	Dalawai Yagnasri	17251A0437	TCS	TCSL/DT20206721336/Hyderabad, 11-01-2021
120	Gajjela Amulya	17251A0439	Accenture	C10027359, 30-08-2021
121	Navya Likhitha Garikapati	17251A0440	Deloitte	4/26/2021
122	Bhavya Sree Gudiseva	17251A0442	Colruyt	23-06-2021
123	Gayathri Madupathi	17251A0446	Infosys	HRD/3T/1001713547/21-22, 23-08-2021
124	kavyareddy marakala	17251A0448	Infosys	HRD/3T/1001724572/21-22, 16-07-2021
125	Rishika Nadimatla	17251A0451	Accenture	C9319909, 23-03-2021
126	Sanjana Karra	17251A0454	Deloitte	8/26/2021
127	Sai Manasa Tata	17251A0458	Deloitte	4/9/2021
128	Navyasree Thirunagari	17251A0459	Infosys	HRD/3T/1001724775/21-22,16-07-2021
129	Anvitha Gorrela	17251A0461	Deloitte	8/27/2021
130	Sreeja Bodanapu	17251A0462	Deloitte	8/27/2021
131	Chittepu Charishma Reddy	17251A0463	Accenture	C9401244, 17-04-2021
132	Jasmitha Duvvuru	17251A0464	Deloitte	8/26/2021
133	Srija Gaddam	17251A0465	Accenture	C9319910, 23-03-2021
134	Godi Charanni	17251A0466	CGI	04-08-2021
135	Bhavishya Sri Koluguri	17251A0469	Infosys	HRD/3T/1001724426/21-22, 16-07-2021
136	Sree Rekha Machiraju	17251A0470	Accenture	C9401245, 17-04-2021
137	Priyanka Nagireddy	17251A0472	Data Infinity	5/4/2021
138	Nandu Tejaswini	17251A0473	Accenture	C9746214, 12-07-2021
139	Neha Cemerla	17251A0474	Infosys	HRD/3T/1001728924/21-22, 15-07-2021
140	Niharika B	17251A0475	Accenture	C9746213, 12-07-2021

141	Vasundhara devi Pulla	17251A0477	Infosys	HRD/3T/1001715609/21-22, 16-07-2021
142	Haritha Purushottam	17251A0478	Accenture	C9329426, 25-03-2021
143	Sneha Sanka	17251A0481	Accenture	C395569, 13-04-2021
144	Ameen Begum Shaik	17251A0482	Statestreet	6/17/2021
145	Sidhanthi Sai Phalguni	17251A0483	Accenture	C9801257, 22-07-2021
146	Hemalatha Soma	17251A0484	Accenture	C9329427, 25-03-2021
147	Jhansi Lakshmi Somarouthu	17251A0485	Infosys	HRD/3T/1001730633/21-22, 16-07-2021
148	Nikhila Putcha	15251A0454	GSS Prosper Springs Pvt Ltd	DIN:0820 1963
149	Bhoomagouni Shivani	18255A0408	GerminIT	20-07-2021
150	Penumala Raji	18255A0431	Emerson	02-11-2023
151	Harshitha Nalluri	18255A0416	TCS	07-10-2021
152	Sujatha Konduri	18255A0407	Sports Plus	31-08-2022
153	Ishwarya Kekkarla	18255A0413	TCS	23-08-2021
154	Velpula Navya	18255A0423	M.Tech_Kakatiya University,Warangal	21567T6615
155	Srihitha Guduguntla	17251A04F6	Bradley University	355548

4.5 Professional Activities (20) Total Marks 20.00

4.5.1 Professional societies/chapters and organizing engineering events (5)

Institute Marks : 5.00

4.5.1 Professional societies/chapters and organizing engineering events (5)

A. Availability & Activities of Professional Societies/Chapters (3)

The ECE department oversees the organization of various professional bodies and chapters, these organizations play integral roles in fostering technical education and advancement within the department. including

1. **ISTE (Indian Society for Technical Education)**
2. **IETE (Institution of Electronics and Telecommunication Engineers)**
3. **IEEE (Institute of Electrical and Electronics Engineers)**

1. ISTE

About ISTE

The Indian Society for Technical Education (ISTE) is a national, professional, non-profit making society registered under the Societies Registration Act of 1860. The mission of society is formulating and implementing the responsibilities and objectives of technical education. The major objectives of ISTE is to develop top quality professional engineers & technicians needed by the industries and other organizations. It is the only national organization of educators in the field of engineering and technology. The Ministry of human resource development and state government are well associated with ISTE programs relating to technical education.

ISTE Student Chapter

ISTE (International Society for Technology in Education) Students Chapter refers to a student-led organization affiliated with the International Society for Technology in Education. ISTE is a global organization that focuses on advancing technology in education and providing resources, networking opportunities, and professional development for educators.

Membership details

ISTE Student Chapter of G. Narayanamma Institute of Technology & Science, Shaikpet, is established in the year **2002** which is run by students with the support of faculty advisors, to make the student community to actively participate in ISTE activities to provide a common platform for students to exhibit their talent which helps their career development. Students of all the branches who join GNITS in the I year of B. Tech course are members of ISTE professional body and their membership fees is paid by the management. ISTE Student Chapter aim to promote the use of technology in education, foster collaboration among students interested in educational technology, and provide a platform for sharing ideas and experiences.

Activities organized by GNITS ISTE Students Chapters include Technical Paper/Poster presentations, workshops, seminars, conferences, Guest Lectures, and collaborative projects that explore the integration of technology in teaching and learning. Members of these chapters often have the opportunity to engage with experts in the field, participate in hands-on learning experiences, and contribute to the broader conversation about the role of technology in education.

Impact on Students

Professional Development: Offering workshops, seminars, and certifications to enhance technical skills.

- **Networking Opportunities:** Connecting students with professionals and industry experts through conferences.
- **Exposure to Industry Trends:** Providing insights into current industry practices through guest lectures and industrial visits.
- **Competitions and Events:** Encouraging innovation and excellence through technical competitions.
- **Leadership and Soft Skills:** Offering leadership opportunities and promoting teamwork.
- **Continuous Learning:** Keeping students updated on the latest developments in their field through publications.

2. IETE Student Forum

About IETE

The Institution of Electronics and Telecommunication Engineers (IETE) is Indias leading recognised professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT. Founded in 1953. The IETE is the National Apex Professional body of Electronics and Telecommunication, Computer Science and IT Professionals. It serves corporate members, Student and ISF members through various Centres, spread all over India and abroad. The Institution provides leadership in Scientific and Technical areas of direct importance to the national development and economy. Government of India has recognised IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational Institution of national eminence.

Membership details: The IETE Student Chapter of G. Narayanamma Institute of Technology & Science, Shaikpet, was established in the academic year 2003 with the aim of encouraging active participation in IETE activities and enhancing students technical and communication skills to facilitate their career development.

Student Membership details Academic year wise is listed in the Table 4.5.1.1

Table 4.5.1.1 IETE Student Forum Membership details

S.No	Academic Year	Number of memberships by students
1	2022-23	191
2	2021-22	288
3	2020-21	105
4	2019-20	173
5	2018-19	107

- **Faculty memberships: Total 18 (out of which 9 staff have fellow membership)**

Activities organized by ECE Department under IETE Students Forum include Technical Quiz, Codo Puzz, seminars, Industrial visits, Mock interviews, Hackathon, conference, Guest Lectures, Technical Paper/Poster presentations, workshops, Technical Treasure Hunt and projects Expos. Members of these Forum often have the opportunity to engage with experts in the field, participate in hands-on learning experiences, and contribute to the broader conversation about the role of technology in education.

Impact on Students:

- **Promoting Technical Awareness:** Raise awareness and interest among students in the field of electronics and telecommunication through technical sessions, workshops, and seminars.
- **Enhancing Skills:** Provide a platform for students to enhance their technical skills, including hands-on experience with the latest technologies and tools.
- **Encouraging project development:** students are encouraging to participate in project Expos, hackathons, and competitions to explore new ideas.
- **Facilitating Networking:** Create opportunities for students to connect with professionals, experts, and peers in the industry, promoting networking and collaboration.
- **Career Development:** Offer resources and guidance to help students with career planning through mock interviews and skill development programs.
- **Soft Skills Development:** Coding challenge, workshops and activities to improve communication skill, teamwork, leadership, and other soft skills essential for professional success.

3.IEEE

About IEEE:

IEEE (Institute of Electrical and Electronics Engineers) is a professional association that is dedicated to advancing technological innovation and excellence for the benefit of humanity. It is the world's largest technical professional organization, with over 400,000 members in over 160 countries. IEEE provides a platform for professionals to network, collaborate, and share knowledge in their respective fields. It also publishes journals, magazines, and conference proceedings that are highly

cited and respected in the scientific community.

IEEE Student branch ID: **GNITS STB 64991** of G. Narayanamma Institute of Technology and Science (GNITS) was established in **2018**. GNITS IEEE Student Branch gives students a community of peers, and a connection to faculty and industry professionals who drive innovation in countless technical fields. Student involvement in Branch activities, whether special projects, social and technical meetings, outreach programs, conferences, local Section or Regional opportunities, etc. can help develop a record of accomplishment and capabilities beyond the norm.

Chapters of IEEE Students Branch in GNITS:

i. Women in Engineering (WiE) Affinity Group:

Established in 2018, IEEE Women in Engineering (WIE) is a global network of IEEE members and volunteers dedicated to promoting women engineers and scientists and inspiring girls around the world to follow their academic interests in a career in engineering and science. WIE is one of the worlds leaders in changing the face of engineering, with a global network of 45,000 members worldwide in an effort to advance women in technology. It also sponsors publications, conferences, and events, and networking opportunities.

ii. Industrial Electronics Society (IES) Chapter: Date of Establishment: **8th November 2022**

The Industrial Electronics Society (IES) is a technical sub-group of IEEE that is dedicated to the application of electronics and electrical sciences for the enhancement of industrial and manufacturing processes. The activities include the latest developments in intelligent and computer control systems, robotics, factory communications and automation, flexible manufacturing, data acquisition and signal processing, vision systems, and power electronics.

iii. SENSORS Council: Date of Establishment: **8th November 2022**

The IEEE Sensors Council is a professional organization that focuses on the theory, design, fabrication, manufacturing, and application of devices for sensing and transducing physical, chemical, and biological phenomena, with an emphasis on the electronics, physics, and reliability aspects of sensors and integrated sensor-actuators. The council provides a wide range of activities, including WiSe, Young Professionals, Standards Activity, Industry Liaisons, Diversity and Inclusion, etc.

iv. Power Electronics Society (PELS) Chapter: Date of Establishment: **28th April 2023**

The IEEE Power Electronics Society (PELS) coordinates its technical initiatives via its Technical Committees (TCs), which play a pivotal role across all of the Societys endeavors. These committees engage in a wide array of activities, including staying abreast of advancements in intelligent and computer-controlled systems, robotics, factory communications and automation, flexible manufacturing, data acquisition and signal processing, vision systems, and of course, power electronics.

B. Number, Quality of engineering events (organized at the Institute) (2)

The Summary of Events conducted under ISTE Students Chapter for the Annual Tech Fest in the academic years are listed below in Table 4.5.1.2

Table 4.5.1.2 Summary of Events conducted under ISTE Students Chapter

IGNIUM 2K22 date 26/11/2022 Silver Jubilee Celebrations Academic Year 2022-23			
Sl. No.	Name of the event	Department	No. of Participants
1	Paper Presentation	ECE	51
2	Poster Presentation	ECE	53
3	Project Expo	ECE	67
4	Wartech	ECE	20
5	Techdrama	ECE	14
No. of Students Participated			205
IGNIUM 2K22 date 18/06/2022 Academic Year 2021-22			
1	Paper Presentation	ECE	29
2	Poster Presentation	ECE	43
3	Project Expo	ECE	67
4	Techvistra	ECE	25
No. of Students Participated			164
IGNIUM 2K20 date 06/03/2020 Academic Year 2019-20			
1	Paper Presentation	ECE	27
2	Poster Presentation	ECE	38
3	Project Expo	ECE	48
4	Find The Route	ECE	55
5	Quizzing Cameos	ECE	50
No. of Students Participated			218

The summary of all the events conducted under IETE Student Forum are listed in the Table 4.5.1.3

Table 4.5.1.3 IETE Student Forum Events summary

Academic year	S.No	Date	Name of the Event	Total no. participants
2023-24	1	15/07/2023	Mock Interviews	40
	2	19/08/2023	Guest Lecture on Current trends in verifying complex chips	156
	3	22/08/2023	Seminar on 'Innovate using Emerging Technologies'	101
	4	15/09/2023	Tech-Eco Ganesha: Crafting an Electronic Deity	12 teams
	5	6/10/2023	Technical Quiz	71
	6	11/10/2023	Seminar on "Campus to corporate Journey"	60
	7	18/10/2023	Seminar on "Navigating your Future: Career Opportunities after B.Tech"	75
	8	4/11/2023	Mini Project Expo	124
	9	4/11/2023	1-Day Workshop on Drone Technology in Architecture Education	50
	10	22/11/2023	Seminar on "AI for Engineering Applications"	48
	11	13/12/2023 20/12/2023,	Industrial visit to kwality photonics/Doordarshan kendra	106 & 63
2022-23	1	18/10/2022	Technical Quiz	168
	2	9/12/2022	Tech Codopuzz	50
	3	09/02/23	Seminar on Engineering applications with Embedded systems	208

	4	18/03/23, 27/03/23	Industrial visit to ATC AAI, shamshabad	43 53
	5	29/03/23	Industrial visit to NRSC	106
	6	20/04/23	Industrial visit to Kwality Photonics pvt.Ltd	51
	7	21/4/2023	Technical Treasure Hunt	22
2021-22	1	25/09/2021	Techincal Quiz	30
	2	30/10/2021	Code Debugging challenge	24
	3	04/12/2021	Hardware Design Test	100
	4	23/10/2021	Mock Interview	40
	5	18/12/2021	Paper Presentation	61
	6	05/01/202, 06/01/2022	Industrial visit to Kwality Photonics	100 105
	7	08/04/2022	Poster Presentation	22
	8	21/03/2022	Seminar on IoT and Robotics	173
2020-21	1	09/01/2021	Virtual Ideathon	22
2019-20	1	18/07/2019	Career Awareness Program and hands-on-session on Robotics	61
	2	23/8/2019, 26/8/2019, 27/8/2019	3 day workshop on 2x2 MIMO	43
	3	29/10/2019	Poster Presentation	29
	4	29/10/2019	Industrial visit to SDSC-SHAR (ISRO), Sriharikota	94
	5	17/12/2019	Code Debugging	20
	6	20/12/2019	National conference on IoT for Real World Applications	125
	7	27/02/2020	Hands On Program-Linux Fundamentals Skill Development	55
	8	14/3/2020 15/3/2020	24 hr HACKATHON on Data science	49
	9	9/8/2018	Demo on Programming Workbench	184
	10	29/9/2018	Approaching Reality	56 teams
	11	30/1/2019	Paper presentation	20 teams
	12	8/2/2019	Industrial visit to INCOIS	42
	13	1/3/2019	Industrial visit to NRSC	53
	14	2/3/2019	Industrial visit to Metro Rail Limited	60
	15	19/3/2019	Hardware project expo	15 teams
	16	23/3/2019	Mock Interviews	42

The summary of all the events conducted under IEEE GNITS Student Branch are listed in the Table 4.5.1.4

Table 4.5.1.4 Summary of Events under IEEE Students Branch

Academic year	S.No	Date	Name of the Event	Total no. participants
2023-24	1	02-12-2023	Ecoshe summit R10 Funded Global event	27
	2	19-10-2023	Technical talk on Trends driven by Digital Superpowers	60
	3	15-09-2023	Guest Lecture on AI and Human Intelligence	20
	4	08-09-2023	Guest Lecture on Electronics: Building Blocks of Smart cities	64
	5	16-06-2023	VIDYOUTH '23 1.Poster presentation 2.Olympiad 3. Paper Presentation	 2 28 7
2022-23	1	3-12-2022	Opportunities on being IEEE Member & present Industry requirements	60
	2	12-11-2022	AMPHITECH (Physhoot, Webspeed)	15
	3	12-11-2022	Guest Lecture on "A Plug and Play Operational Approach for implementation of an Autonomous- Micro-Grid Systems"	29
	4	20-06-2022	Web Application Hacking 2-days hands-on Workshop	18
2021-22	1	16-03-2022	STAR Program	3
	2	08-04-2022	Digital wellness	11
	3	10-07-2021	GATEWAY- An ultimate guideline to crack gate	22
2020-21	1	6-10-2020	IEEE DAY Celebrations CODING QUIZ	18
	2	21-04-2021	WeCode	75
	3	21-03-2021	IEEE Membership Drive	50
	4	23-01-2021	5 things I wish I knew when I was 21	55

4.4.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

A. Quality &Relevance of the contents and print material (3)

The following are the newsletters and technical magazine of the department and the Institute

Technical magazine-Pramana: It will be published quarterly with four issues and one volume per year by the ECE Department.

- **News Letter: Sankethika Bharathi:** It will be published by the institute twice a year, i.e once in the month of March during Annual Day Celebrations of the Institute, and once in the month of August on the Orientation Day Program for the first year students.
- **Other Newsletters:**
  - **Souvenir**: 'Vimshatihi' was published in 2017 by the institute marking the Bi-Decennial Celebrations. Similarly, a souvenir was published in 2022 for the Silver Jubilee Celebrations of our Institute
  - **Roots & Rhythms:** Roots & Rythms was first published in the year 2023 where many of the Institute' Alumni have paved non-engineering paths after completing their B.Tech, these success stories shed light on the multitude of opportunities available beyond traditional engineering roles.
  - **Tu Turno-Coffee Table Book:** Tu Turno is a part of GNITS Alumni Chapter is a testament to incredible inspiring stories of the alumnae.
- **Sankethika Bharathi : NEWSLETTER**

Sankethika Bharathi, a vibrant newsletter of esteemed institute, G. Narayanamma Institute of Technology and Science serves as the pulse of our academic community. It will be published twice a year, i.e once in the month of March on the Institute Annual Day Celebrations, and once in the month of August on the Orientation Day Program for the first year students. A Souvenir with the title, 'Vimshatihi' was published in 2017 marking the Bi-Decennial Celebrations. Similarly, a souvenir was published in 2022 for the Silver Jubilee Celebrations of our Institute. Due to Covid 19 pandemic, we brought out one issue per year from the year 2020 till 2024. As a repository of academic, co-curricular, and extracurricular information, Sankethika Bharati goes beyond the conventional, weaving together the diverse threads that make our Institute life truly exceptional.

At the core of Sankethika Bharathi lies a commitment to chronicle the academic pursuits of our students and faculty members. The newsletter captures the essence of the intellectual vigour that permeates our classrooms and research labs through academic achievements and spotlights such as research initiatives and innovative teaching methodologies, Sankethika Bharathi ensures that the academic accomplishments of the institute community are celebrated and shared. The newsletter serves as a platform to celebrate the myriad accomplishments of the students and faculty in the extracurricular realm. By featuring personal stories and anecdotes, Sankethika Bharathi fosters a sense of community and inspiration that goes beyond the conventional academic sphere.

Table 4.5.2.1 Newsletters of the Institute – Sankethika Bharathi

S.No.	Name of the Newsletter	Year	Month	Volume No.	Issue No.	Chief Editor, Convener, Department Coordinator	Newsletter First page Proof
1	Sankethika Bharathi, Biannual Newsletter	2023	March & August	21	39&40	Dr. P. Aparna, Dr. B.Sushma, Mrs. V. Uma	
2	Sankethika Bharathi, Biannual Newsletter	2022	March & August	20	37&38	Dr. P. Aparna, Dr. B.Sushma, Mrs. V. Uma	
3	Sankethika Bharathi, Biannual Newsletter	2021	March & August	19	35&36	Dr. P. Aparna, Dr. B.Sushma, Mrs. V. Uma	
4	Sankethika Bharathi, Biannual Newsletter	2020	March & August	18	33&34	Dr. P. Aparna, Dr. B.Sushma, Mrs. V. Uma	

Table 4.5.2.2 Other Newsletters of the Institute

S.No.	Name of the Newsletter	Year	Chief Editor, Convener, Department Coordinator	Newsletter First Page Proof
1	Souvenir-Silver Jubilee Celebrations	2022	Dr. P. Aparna, Dr. B.Sushma, Mrs. V. Uma	
2	Tu Turno-Coffee Table Book	2023	Mrs. V. Jahnavi, Mrs. P. Madhuri	
3	Roots & Rhythms-Alumnae Newsletter	2023	Mrs. V. Jahnavi, Dr. B. Venkateshulu, Mrs. G. Madhavi	

PRAMANA—ECE Department Technical Magazine

Pramanas mission is to narrow the gap between theory and practice by disseminating knowledge, promoting collaboration, and igniting creativity among students, researchers, and professionals. Positioned as a guiding light for enthusiasts exploring the realms of electronics and communications, the magazine plays a crucial role in propelling technological advancement. It offers a comprehensive exploration of Electronics and Communications Engineering, encompassing topics such as emerging trends in the Digital Domain, VLSI Design, Signal Processing and Communication Systems, Embedded Systems and IoT, Photonics and Optoelectronics, and cutting-edge technologies like Artificial Intelligence, Machine Learning, and Quantum Computing.

The magazine goes beyond by delving into in-depth analyses of ground breaking research and academic contributions. It also features interviews with industry leaders and experts, offering valuable perspectives on current trends and future directions. Highlighting innovative student projects, fostering creativity and hands-on learning, the magazine incorporates practical guides and tutorials to help readers master key concepts and technologies. These elements are seamlessly integrated to elevate the overall quality and standard of the magazine.

Table 4.5.2.3 Technical Magazine-PRAMANA

S.No.	Name of the Magazine	Year	Month	Volume No	Issue No.	Editor-in-Chief, Co-Editor	Magazine First page Proof
1	Pramana	2023	October	1	1	Dr. Swapna Raghunath, Mrs. P. Lavanya	
2	Pramana	2024	January	2	1	Dr. Swapna Raghunath, Mrs. P. Lavanya	

B. Participation of Students from the Program (2)

The following are the student co-ordinators for PRAMANA –Technical Magazine

Table 4.5.2.4 Student Editorial Board: Technical magazine –PRAMANA

S.No.	Name of the Student	Year/Section
1	N. Manognya Bharathi	III-A
2	G. Kusumanjali	II-A
3	B. Siri Chandana	III-B
4	Shraddha	III-C
5	G. Sathwika	II-C
6	B. Kaankshitha	II-B

Table 4.5.2.5 Student Contribution to Technical magazine –PRAMANA

S.No.	Volume & Issue No.	No. of Student Articles Contribution to Pramana
1	Volume 1 and Issue 1	75
2	Volume 2 and Issue 1	35

Table 4.5.2.6 Student Members for Alumnae Newsletter-Roots & Rhythms

S.No.	Name of the Student	Year/Section
1	D.Srujana	II-A
2	B.Usha Sri Chowdary	II-B
3	B.Sri Sruthi	II-C
4	S.Sheetalsree	III-A
5	K.Manisha	III-B
6	S Apoorva	III-C
7	Bhavana K	IV-A
8	Vidhisha Reddy	IV-B
9	A.Sathvika	IV-C

4.4.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks : 10.00

4.5.3 Participation in inter-institute events by students of the program of study (10)

The ECE department expresses a sense of pride in its students and continually encourages them to participate in various events such as Hackathons, Coding Expo, Workshops, Technical Seminars, Paper and Poster Presentations. Various activities are conducted under Professional Bodies ISTE, IETE and IEEE. Many students have contributed outstandingly in Hackathon and Coding events and won cash prizes worth of Rs.15000. The following table summarizes the count of students who have won awards and participated outside the Institute and within the institute specifically for the academic years 2023-2024, 2022-2023, 2021-2022, and 2020-2021.List of students with the details of the awards /prizes in both outside and within GNITS for the mentioned four academic years is attached.

Table 4.5.3.1 Summary of Students who won Awards Outside and Within the Institute for Current and last three Academic Years

S.No.	Academic Year	No. of Winners Outside GNITS		No. of Winners within GNITS
		Within the state	Outside the State	
1	2023-2024	6	6	8
2	2022-2023	9	10	13
3	2021-2022	-	5	9
4	2020-2021	13	3	-

Table 4.5.3.2 Summary of Students who Participated in Events Outside and Within the Institute for Current and last three Academic Years

S.No.	Academic Year	No. of Participants Outside GNITS	
		Within the state	Outside the State
1	2023-2024	10	15
2	2022-2023	12	18
3	2021-2022	24	9

A. Events within the state (2)

Table 4.5.3.3 Student Achievements within the state for Academic Year: 2023-2024

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	21251A0493	T.V.L. Prasanna	Anveshana	Agastya Foundation and Synopsys	28th Feb to 1st March, 2024	5th Prize with cash Prize of Rs. 10000
2	21251A04B1	Itikala Satvika	Anveshana	Agastya Foundation and Synopsys	28th Feb to 1st March, 2024	5th Prize with cash Prize of Rs. 10000
3	20251A04B5	Reddy Swathi	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
4	20251A04B4	Swathi Ramaswamy	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
5	20251A04B7	S. Meghana	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
6	20251A0495	B. Sneha Sri	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
7	21251A04F5	T. Prathima	Megathon	IIIT Hyderabad	28th October, 2023	Participant
8	22251A04C9	Bandaru Sree Manaswini	Promathean 2023	BVRIT, Telangana	22nd December,2023	Participant
9	20251A04D8	N. Akhila Yadav	Winter School on the theme Sensors for Industry 4.0	IIIT Hyderabad	20th December, 2023	Participant
10	20251A0483	P. Pravallika	PALS innoWAH! Pre-Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
11	20251A04A5	K. Divya	PALS innoWAH! Pre - Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
12	20251A04B5	Swathi Reddy	PALS innoWAH! Pre - Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
13	20251A0416	Amrutha Shiny Kolapudi	PALS innoWAH! Pre - Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
14	20251A0426	Divvya Pandi	PALS innoWAH! Pre - Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
15	20251A0454	Kavya Ryakala	PALS innoWAH! Pre - Finals 2023-24	KGR Institute of Engineering	17th February, 2024	Participant
16	21251A04K2	T. Shraddha	Accenture Innovation Challenge	Accenture & Unstop	27th July,2023	Participant

Table 4.5.3.4 Student Achievements within the state for Academic Year -2022-2023

S.No	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	21251A0493	T.V.L Prasanna	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000
2	21251A04B1	Itikala Satvika	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000
3	21251A04C7	S. Srichetan	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000

4	21251A04C5	S. Meghana Reddy	Paper presentation	5th Pure Earth Environmental Conference	26th Nov, 2023	Best Research Paper Award
5	21251A04C0	N. Umasree	Paper presentation	5th Pure Earth Environmental Conference	26th Nov, 2023	Best Research Paper Award
6	19251A04G6	Rucha Dhodapkar	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
7	19251A0403	Alekhya Pathak	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
8	19251A0422	K. Hoyasala Devi	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
9	19251A0451	Pranati Tantravahi	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
10	20251A0409	Gali Jayanthi	Megathon 2022	IIIT Hyderabad	22nd Oct,2022	Participant
11	21251A04E9	Meghana Ongole	CT Ninja	IIIT Hyderabad	17th Oct,2022	Participant
12	21251A04E9	Meghana Ongole	Megathon 2022	IIIT Hyderabad	22nd Oct,2022	Participant
13	21251A04D4	Avula Bhavana	Megathon 2022	IIIT Hyderabad	22nd Oct,2022	Participant
14	21251A04D4	Avula Bhavana	IETE Knowledge Sharing Session Webinar - 117	IETE Hyderabad Centre	25th Dec,2022	Participant
15	21251A04D4	Avula Bhavana	IETE Knowledge Sharing Session Webinar - 121	IETE Hyderabad Centre	12th Feb,2023	Participant
16	20251A0410	Gnagisetty Krishna Haneesha	Megathon 2022	IIIT Hyderabad	22nd Oct, 2022	Participant
17	20251A0411	G. Swathi	Megathon 2022	IIIT Hyderabad	22nd Oct, 2022	Participant
18	20251A0425	Palle Akshaya	IETE Knowledge Sharing Session: Webinar- 121	IETE Hyderabad Centre	12th Feb, 2023	Participant
19	20251A0425	Palle Akshaya	Tech Udyog Fete-2022	Kalams Institute of Youth and Excellence	23rd Dec,2022	Participant
20	20251A04A4	K. Sai Vijaya Lakshmi	National Level Hackathon	Code Infinity at Malla Reddy Institute of Engineering	17th and 18th March, 2023	Participant
21	20251A0408	Dudipala Harshini	Megathon 2022	IIIT Hyderabad	22nd Oct,2022	Participant

Table 4.5.3.5 Student Achievements within the state for Academic Year -2021-2022

S.No	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	20251A0475	Manda Priyanka	Webinar: Smart Sensors and Applications	IETE Hyderabad Centre	21st Nov,2021	Participant
2	20251A0473	M. Lakshmi Raja	Webinar: Smart Sensors and Applications	IETE Hyderabad Centre	21st Nov,2021	Participant
3	20251A0473	M. Lakshmi Raja	Webinar: Food Processing Machine Manufacturing	IETE Hyderabad Centre	9th Jan,2022	Participant
4	20251A0440	Sriya Gundapu	Deep Learning onramp	Math works	26th April,2022	Participant
5	20251A0428	P. Vaishnavi	Inspire Hyd Career Excellence programme	Kalams Institute of youth	24th April,2022	Participant
6	20251A0432	Arushi Sreekumar	Machine learning onramp	Math works	27th April,2022	Participant
7	20251A0473	M. Lakshmi Raja	Webinar: Role of Internet of Things (IOT)	IETE Hyderabad Centre	1st May,2022	Participant
8	20251A0417	K.Poojitha	IETE Knowledge Sharing Session: Webinar - 76	IETE Hyderabad Centre	5th Dec,2022	Participant
9	20251A0417	K.Poojitha	Ideathon-2022	CBIT, Hyderabad	23rd March, 2022	Participant
10	20251A0473	M. Lakshmi Raja	Inspire Hyd Career Excellence programme	Kalams Institute of youth Excellence Foundation	24th April,2022	Participant
11	20251A04E9	Udutha Sathwika	Webinar: Role of Internet of Things and Smart Grids	IETE Hyderabad Centre	1st May,2022	Participant
12	20251A04E9	Udutha Sathwika	Webinar: Indian Space Program	IETE Hyderabad Centre	23rd March, 2022	Participant
13	20251A04E9	Udutha Sathwika	Introduction to Intellectual Property Rights	IETE Hyderabad Centre	30th Jan,2022	Participant
14	20251A04E6	Amulya Seshagani	Webinar: Role of Internet of Things (IOT)	IETE Hyderabad Centre	1st May,2022	Participant
15	20251A04E6	Amulya Seshagani	Virtual Reality Mini project	CCBP 4.0 Academy Program	2nd October, 2022	Participant
16	20251A04E6	Amulya Seshagani	Inspire Hyd Career Excellence programme	Kalams Institute of Youth Excellence Foundation	26th March, 2022	Participant
17	20251A0459	V. Abhinaya	Inspire Hyd Career Excellence programme	Kalams Institute of youth Excellence Foundation	26th March, 2022	Participant
18	20251A0494	B.Saritha	Webinar: Smart Sensors nd Applications	IETE Hyderabad Centre	21st Nov,2021	Participant
19	20251A0494	B.Saritha	Webinar: The changing face of broadcasting	IETE Hyderabad Centre	5th Dec,2021	Participant
20	20251A0494	B.Saritha	Inspire Hyd Career Excellence programme	Kalams Institute of youth Excellence Foundation	26th March, 2022	Participant
21	20251A0429	Vanga Ujwalasony	Inspire Hyd Career Excellence programme	Kalams Institute of youth Excellence Foundation	26th March, 2022	Participant
22	20251A0419	K. Bhavana	Inspire Hyd Career Excellence programme	Kalams Institute of youth Excellence Foundation	26th March, 2022	Participant
23	20251A0417	K.Poojitha	Break free	IIT Hyderabad	25th March, 2021	Participant
24	20251A0417	K.Poojitha	5 weeks completion of training in IoT	Internship Studio	19th March, 2022	Participant

Table 4.5.3.6 Student Achievements within the state for Academic Year -2020-2021

S.No	Student Roll No.	Name of the Student	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	17251A04E0	Nelly Neha Reddy	Hackathon	Clean Air Asia	5th June, 2020	Encouragement Award
2	19251A0437	Mohammed Sana	Social Marketing Intern	Unschool	September	Certificate of Excellence
3	18251A0403	Gattikoppula Tejaswini	International Space Science Competition	Go4Guru Inc.	March, 2020	Best Performer
4	18251A0403	Gattikoppula Tejaswini	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Certificate of Excellence, 1st Prize
5	17251A0438	Aswini Donthu	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Cash-prize of Rs. 25000
6	17251A0455	Shaik Uzma Kowsar	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Certificate of Excellence
7	17251A0416	Nara Yamini	Online Technical Challenge IEEE	Osmania University	17th May, 2020	3rd Prize
8	17251A0420	B. Sai Aparna	Robotics Expo	IEEE Women in Engineering, IEEE Hyderabad Section	2020	Best Project Idea
9	18251A04G3	Jahnavi Kalyani	Award	Ministry of Excise, Youth Affairs of Telangana	3rd Jan,2021	Savitri Bhai Phule Excellence Award
10	18251A04G3	Jahnavi Kalyani	Blind Coding	CBIT, Hyderabad	3rd and 4th March, 2021	1st Prize
11	18255A0410	Manasa Devolla	Hackathon	Smart Village Development by SNIST	28th, 29th and 1st March,2021	Certificate of Excellence
12	17251A0459	Navya Sri Thirunagari	Hackathon	Smart Village Development by SNIST	28th, 29th and 1st March,2021	Certificate of Excellence
13	17251A0439	Amulya Gajjela	Hackathon	Smart Village Development by SNIST	28th, 29th and 1st March,2021	Certificate of Excellence

B. Events outside the state (3)

Table 4.5.3.7 Student Achievements Outside the state for Academic Year: 2023-2024

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	21251A0447	Nenavath Anjali Rathod	PALS - TuTr Hyperloop Hackathon	IIT Madras	30th August to 6th September 2023	Second
2	21251A0461	Thanniru Jyothi	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
3	21251A0441	Kadali Lakshmi Pranathi	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
4	21251A0437	Duggireddy Niharika Reddy	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
5	21251A04F4	S. Nasira Banu	Smart India Hackathon2023	AICTE, Amaravati, Maharashtra	19th-20th December, 2023	Second
6	21251A04J0	Lakshitha Chouhan	Smart India Hackathon2023	AICTE, Amaravati, Maharashtra	19th-20th December, 2023	Second
7	22251A0408	Abhilasha	National Level Technical Paper Contest	IETE, New Delhi	24th September, 2023	Participant
8	22251A0415	K. Sai Lalitha Devi	National Level Technical Paper Contest	IETE, New Delhi	24th September, 2023	Participant
9	21251A04C5	S. Meghana Reddy	PALS Residential Student Workshop	IIT Madras	12th to 14th December, 2023	Participant
10	21251A0493	T.V.L Prasanna	PALS Residential Student Workshop	IIT Madras	12th to 14th December, 2023	Participant
11	22255A0413	Sai Keerthana Kuppireddy	PALS Residential Student Workshop	IIT Madras	12th to 14th December, 2023	Participant
12	21251A04F5	T. Prathima	International Space Apps Challenge	Chandigarh University	30th August, 2023	Participant
13	22251A0465	Aabha Dixit	PSG iTech Hackfest	KL University, Vijayawada	12th July, 2023	Participant
14	22251A0473	B. Usha Sri Chowdary	PSG iTech Hackfest	KL University, Vijayawada	12th July, 2023	Participant
15	22251A0493	T. Kathyayani	iTech Hackfest 2023	PSG Institute of Technology and Applied Research	24th August, 2023	Participant
16	22251A0448	Matta Nandika Reddy	iTech Hackfest 2023	PSG Institute of Technology and Applied Research	12th July, 2023	Participant
17	22251A0450	NLS Pranava Sukrithi	iTech Hackfest 2023	PSG Institute of Technology and Applied Research	25th August, 2023	Participant

18	22251A0457	S. Sudeepthi	iTech Hackfest 2023	PSG Institute of Technology and Applied Research	26th August, 2023	Participant
19	22251A0456	Sai Suhani S Moolya	Netsim Hackathon	VIT, Chennai	30th September 2023	Participant
20	22251A0457	S. Sudeepthi	Netsim Hackathon	VIT, Chennai	30th September 2023	Participant
21	20251A0432	Arushi Sreekumar	IEEE Conference	New Horizon Institute of Engineering, Bengaluru	22nd to 23rd September, 2023	Participant

Table 4.5.3.8 Student Achievements outside the state for Academic Year-2022-2023

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	20251A0434	B. Shravani	NASA Space Apps India, Hackathon	Chandigarh University	2nd October, 2023	First Prize
2	20251A04G4	N. Rashmitha	NASA Space Apps India, Hackathon	Chandigarh University	2nd October, 2023	First Prize
3	19251A0451	Pranati Tantravahi	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
4	19251A0403	Alekhya Pathak	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
5	19251A04G6	Rucha Dhodapkar	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
6	19251A0422	K. Hoyasala Devi	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
7	20251A0480	Nooka Pallavi	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
8	20251A0466	Hema Sreya	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
9	20251A0477	M. Tanusha	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
10	20251A0408	Dudipala Harshini	Innovate India Coding Championship	Coding Ninjas, Chandigarh University	20th July,2022	Certificate of Appreciation
11	20251A04A2	K. Varshitha Reddy	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
12	19251A0453	Thiramdasu Sucharitha	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
13	19251A0428	Kancharla Preethi Lilly	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
14	19251A0427	Kamireddy Keertimayee	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
15	19251A0412	Deekonda Eshwari	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
16	19251A0454	Thurlapati Harini	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
17	19251A0446	S.Sushma	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
18	20251A0428	P. Vaishnavi	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
19	20251A0422	Sahiti Maddiveni	International Space Apps Challenge Hackathon	NASA	17th June,2022	Participant
20	19251A04E2	Korimi Sathvika	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
21	20251A0432	Arushi Sreekumar	Smart India Hackathon	AICTE and MHRD	23rd July, 2023	Participant
22	20251A0499	Sindhuja Reddy	Coding ninjas	Coding ninjas	31st Oct,2022	Participant
23	20251A04C0	Yalla Divya	Machine Learning	Techniche IIT Guwahati, 1Stop	21st Dec,2022	Participant
24	20251A04C0	Yalla Divya	Python MCQ	Team Innovative, Unstop	21st Oct,2022	Participant
25	20251A04C0	Yalla Divya	U-Spot (Treasure Hunt) by Ignite-A-Thon	IIIT Bhagalpur	13th Sept,2022	Participant
26	20251A04A4	K. Sai Vijaya Lakshmi	Hexathon, 24-hr. Hackathon	Hexagon	30th April,2023	Participant
27	20251A04E6	Amulya Seshagani	International Space Apps Challenge Hackathon	NASA	16th June,2022	Participant
28	20251A0417	K. Poojitha	International Space Apps Challenge Hackathon	NASA	16th June, 2022	Participant

Table 4.5.3.9 Student Achievements outside the state for Academic Year -2021-2022

S.No.	Student Roll No.	Name of the Student	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	19251A0455	T Spoorthi Reddy	Hackathon – Code for Good 2021	JP Morgan Chase & Co.	19th June,2021	First Prize
2	18251A04G5	Kothapalli Sai Thapaswini	Sparkling Star Award & Learning Paladin Certificate of Appreciation	Cognizant Digital Nurture	9th June,2021	Award
3	20251A0432	Arushi Sreekumar	Course (E-lympics during E-Summit' 22)	IIT Madras	5th March,2023	Second Prize
4	20251A04A4	K. Sai Vijaya Lakshmi	Competitive Coding	Cantilever, NASSCOM	2nd Dec,2021	Outstanding performance
5	19251A0412	Deekonda Eshwari	Coding	Code Kaze	8th April,2022	Award
6	20251A04E0	Sowmya Polagoni	6th National Engineering Olympiad	Neo	29th March, 2022	Participant
7	19251A0424	K Swathi	Artificial intelligence Program	Techfest IIT Bombay, 1Stop	10th April,2022	Participant
8	19251A04E2	Korimi Sathvika	TCS code Vita season 10	TCS	May-2022	Participant
9	20251A0459	V. Abhinaya	Introduction to C++ Certificate Completion	Coding Ninjas	March 2021 to October 2021	Participant
10	20251A0494	B.Saritha	6th National Engineering Olympiad	Neo	29th March,2022	Participant
11	20251A0494	B.Saritha	Introduction to C++ Certificate Completion	Coding Ninjas	March, 2021	Participant
12	20251A0429	Vanga Ujwalasony	Introduction to C++ Certificate Completion	Coding Ninjas	March, 2021	Participant
13	20251A0429	Vanga Ujwalasony	National Intellectual Property Awareness Mission	Ministry of Commerce and Industry, Govt. of India	17th June, 2022	Participant
14	20251A0417	K.Poojitha	6th National Engineering Olympiad	NEO Foundation	29th March, 2022	Participant

Table 4.5.3.10 Student Achievements outside the state for Academic Year -2020-2021

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize/ Participation
1	17251A0473	Nandu Tejaswini	Nav Ujjwal Innovation Hackathon	Siemens, COE, B.I.T Sindri	4th August,2020	Participant
2	17251A0473	Nandu Tejaswini	Tech Gig Code Gladiators 2020	IBM	March, 2020	Participant
3	20251A04E6	Amulya Seshagani	Workshop	CCBP 4.0, Nxtwave	18th March 2021	Participant

C. Prizes/Awards received in such events (5)

4.5.3.11 Prizes/Awards received in events outside GNITS for Academic Year 2023-2024

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize
1	21251A0493	T.V.L. Prasanna	Anveshana	Agastya Foundation and Synopsys	28th Feb to 1st March, 2024	5th Prize with cash Prize of Rs. 10000
2	21251A04B1	Itikala Satvika	Anveshana	Agastya Foundation and Synopsys	28th Feb to 1st March, 2024	5th Prize with cash Prize of Rs. 10000
3	20251A04B5	Reddy Swathi	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
4	20251A04B4	Swathi Ramaswamy	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
5	20251A04B7	S. Meghana	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
6	20251A0495	B. Sneha Sri	Code Infinity, 24-hour Hackathon	MRCET	1st March-2nd March, 2024	1st Prize with cash Prize of Rs. 15000
7	21251A0447	Nenavath Anjali Rathod	PALS - TuTr Hyperloop Hackathon	IIT Madras	30th August to 6th September 2023	Second
8	21251A0461	Thanniru Jyothi	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
9	21251A0441	Kadali Lakshmi Pranathi	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
10	21251A0437	Duggireddy Niharika Reddy	NASA International Space Apps Challenge	Chandigarh University	7th-8th October, 2023	Gold Medal
11	21251A04F4	S. Nasira Banu	Smart India Hackathon2023	AICTE, Amaravati, Maharashtra	19th-20th December, 2023	Second
12	21251A04J0	Lakshitha Chouhan	Smart India Hackathon2023	AICTE, Amaravati, Maharashtra	19th-20th December, 2023	Second

Table 4.5.3.12 Prizes/Awards received in events within GNITS for Academic Year 2023-2024

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/ Prize
1	22251A0474	D. Jagruthi	GNITS Ideathon 1.0	GNITS Hyderabad	22nd July,2023	First
2	22251A04B2	J. Sri Manaswini	GNITS Ideathon 1.0	GNITS Hyderabad	22nd July,2023	First
3	22251A0479	K. Nayana Harshita	GNITS Ideathon 1.0	GNITS Hyderabad	22nd July,2023	Second
4	22251A0470	A.Sreeja	GNITS Ideathon 1.0	GNITS Hyderabad	22nd July,2023	Second
5	22251A04H1	Gopu Sathwika	GreenBiz Hackathon23	GNITS Hyderabad	24th Nov, 2023	Gold Medal

6	21251A0415	Lavanga Devi	GreenBiz Hackathon23	GNITS Hyderabad	24th Nov, 2023	Gold Medal
7	22251A0465	Aabha Dixit	GreenBiz Hackathon23	GNITS Hyderabad	24th Nov, 2023	Gold Medal
8	20251A0477	M. Tanusha	Young Engineer Award	GNITS Hyderabad	2023-2024	Award

Table 4.5.3.13 Prizes/Awards received in events outside GNITS for Academic Year 2022-2023

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize
1	21251A0493	T.V.L Prasanna	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000
2	21251A04B1	Itikala Satvika	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000
3	21251A04C7	S. Srichetan	Hackathon	Blackbuck Engineers, JNTUH	19th April, 2023	III Prize with Rs.10,000
4	21251A04C5	S. Meghana Reddy	Paper presentation	5th Pure Earth Environmental Conference	26th Nov, 2023	Best Research Paper Award
5	21251A04C0	N. Umasree	Paper presentation	5th Pure Earth Environmental Conference	26th Nov, 2023	Best Research Paper Award
6	19251A04G6	Rucha Dhodapkar	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
7	19251A0403	Alekhya Pathak	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
8	19251A0422	K. Hoyasala Devi	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
9	19251A0451	Pranati Tantravahi	Business Idea	TiE Hyderabad Fostering Entrepreneurship	5th April,2023	Certificate of Merit
10	20251A0434	B. Shravani	NASA Space Apps India, Hackathon	Chandigarh University	2nd October, 2023	First Prize
11	20251A04G4	N. Rashmitha	NASA Space Apps India, Hackathon	Chandigarh University	2nd October, 2023	First Prize
12	19251A0451	Pranati Tantravahi	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
13	19251A0403	Alekhya Pathak	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
14	19251A04G6	Rucha Dhodapkar	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
15	19251A0422	K. Hoyasala Devi	2022 International one M2M Hackathon	Korea Electronics Technology Institute	28th Nov,2022	Encouragement Award
16	20251A0480	Nooka Pallavi	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
17	20251A0466	Hema Sreya	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
18	20251A0477	M. Tanusha	Hackathon	AXISCADES and Mistral Solutions	30th June, 2023	Special Prize with Rs. 10,000
19	20251A0408	Dudipala Harshini	Innovate India Coding Championship	Coding Ninjas, Chandigarh University	20th July,2022	Certificate of Appreciation

Table 4.5.3.14 Prizes/Awards received in events within GNITS for Academic Year-2022-2023

S.No.	Student Roll No.	Student Name	Name of the Event	Event Conducted By	Event Date	Award/Prize
1	19251A0451	Pranati Tantravahi	Project expo Team Rovers	IGNIUM 2022, ISTE Student Chapter	26th Nov, 2023	Second Position
2	19251A0402	Abarrane Emmanual	Women in Leadership Conclave	Womens Conclave, GNITS	8th March,2023	Award of Appreciation
3	21251A04A4	Damini Chandipriya	Paper Presentation	Ignium 2022, GNITS	26th Nov,2022	First Prize
4	21251A0469	B. Siri Chandana	Toycathon	GNITS I-cell	25th Jan,2023	First Prize
5	19251A04C7	B Meghana	R&D and Start up Showcase	Women in Leadership Conclave, GNITS	8th March, 2023	Second Prize
6	21251A04J2	M.S. Sravya	Poster Presentation	Ignium 2022, GNITS	26th Nov,2022	First Prize
7	21251A04C5	S Meghana Reddy	Rotaract MUN-2023	Club of GNITS, Hyderabad	27-29th Jan,2023	Certificate of Excellence

8	21251A04C5	S Meghana Reddy	Toycathon	I-Cell, GNITS	25th Jan,2023	First Prize
9	20251A04B1	Sonali Pathro	Poster Presentation	TEJASS (EEE), GNITS	19th April, 2023	Certificate of Excellence
10	20251A0432	Arushi Sreekumar	Idea Pitching Contest on Sustainability Development Goals	I-Cell, GNITS	20th Oct,2022	Third Prize
11	19251A04E8	Masini Chaitanya	Project Expo	Ignium 2022, GNITS	26th Nov, 2022	First Prize
12	20251A04A2	K. Varshitha Reddy	Tech Codopuzz	IETE Student Forum, ISF Hyderabad Centre	26th Nov,2022	Second Prize
13	20251A0488	V. Vaishnavi	Poster Presentation	Ignium 2022, GNITS	26th Nov,2022	Second Prize

Table 4.5.3.15 Prizes/Awards received in events outside GNITS for Academic Year: 2021-2022

S.No.	Student Roll No.	Name of the Student	Name of the Event	Event Conducted By	Event Date	Award/Prize
1	19251A0455	T Spoorthi Reddy	Hackathon - Code for Good 2021	JP Morgan Chase & Co.	19th June, 2021	First Prize
2	18251A04G5	Kothapalli Sai Thapaswini	Sparkling Star Award & Learning Paladin Certificate of Appreciation	Cognizant Digital Nurture	9th June, 2021	Award
3	20251A0432	Arushi Sreekumar	Course (E-lympics during E-Summit' 22)	IIT Madras	5th March, 2023	Second Prize
4	20251A04A4	K. Sai Vijaya Lakshmi	Competitive Coding	Cantilever, NASSCOM	2nd Dec, 2021	Outstanding performance
5	19251A0412	Deekonda Eshwari	Coding	Code Kaze	8th April, 2022	Award

Table 4.5.3.16 Prizes/Awards received in events within GNITS for Academic Year: 2021-2022

S.No.	Student Roll No.	Name of the Student	Name of the Event	Event Conducted By	Event Date	Award/Prize
1	20251A0459	V. Abhinaya	Co-ordinator	Ignium 2022, GNITS	18th June, 2022	Outstanding Contribution
2	19251A04G0	P. Disha	Paper Presentation	Ignium 2022, GNITS	18th June, 2022	First
3	20251A0429	Vanga Ujwalasony	Volunteer	Ignium 2022, GNITS	18th June, 2022	Outstanding Contribution
4	20251A04E6	Amulya Seshagani	Poster Presentation	ISF Chapter, GNITS	8th April,2022	First
5	20255A0401	B. Likitha	Poster Presentation	Ignium 2022, GNITS	18th June, 2022	Second
6	19251A04C1	A Soumya	Paper Presentation	ISF Hyderabad Centre, GNITS	18th December,2021	First
7	19251A04C8	B. Meghana	Paper Presentation	Ignium 2022, GNITS	18th June, 2022	First
8	20251A0417	K.Poojitha	Co-ordinator	Ignium 2022, GNITS	18th June,2022	Certificate of Appreciation
9	20251A04C7	K. Viraja	Best out of Waste Competition	Avantgarde, ECE Association, GNITS	2021-2022	Second Position

Table 4.5.3.17 Prizes/Awards received in events outside GNITS for Academic Year: 2020-2021

S.No.	Student Roll No.	Student Name	Event Name	Event Conducted by	Event Date	Prize/ Award
1	17251A04E0	Nelly Neha Reddy	Hackathon	Clean Air Asia	5th June, 2020	Encouragement Award
2	19251A0437	Mohammed Sana	Social Marketing Intern	Unschool	September	Certificate of Excellence
3	18251A0403	Gattikoppula Tejaswini	International Space Science Competition	Go4Guru Inc.	March, 2020	Best Performer
4	18251A0403	Gattikoppula Tejaswini	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Certificate of Excellence, 1st Prize
5	17251A0438	Aswini Donthu	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Cash-prize of Rs. 25000
6	17251A0455	Shaik Uzma Kowsar	Hackathon	Smart Village Development by SNIST	28th ,29th, and 1st March, 2021	Certificate of Excellence
7	17251A0416	Nara Yamini	Online Technical Challenge IEEE	Osmania University	17th May, 2020	3rd Prize
8	17251A0420	B. Sai Aparna	Robotics Expo	IEEE Women in Engineering, IEEE Hyderabad Section	2020	Best Project Idea
9	18251A04G3	Jahnavi Kalyani	Award	Ministry of Excise, Youth Affairs of Telangana	3rd Jan,2021	Savitri Bhai Phule Excellence Award
10	18251A04G3	Jahnavi Kalyani	Blind Coding	CBIT, Hyderabad	3rd and 4th March, 2021	1st Prize
11	18255A0410	Manasa Devolla	Hackathon	Smart Village Development by SNIST	28th , 29th and 1st March, 2021	Certificate of Excellence
12	17251A0459	Navya Sri Thirunagari	Hackathon	Smart Village Development by SNIST	28th , 29th and 1st March, 2021	Certificate of Excellence
13	17251A0439	Amulya Gajjela	Hackathon	Smart Village Development by SNIST	28th , 29th and 1st March, 2021	Certificate of Excellence

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 170.80

Sr. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)	Date of Leaving	IS HOD?
1	Dr.K.Ragini	AKLPK3735B	ME/M. Tech and PhD	31/01/2013	Low Power VLSI Design	14	1	0	Professor	01/10/2013	30/06/2005	Regular	Yes		Yes
2	Dr.B.Venkateshulu	ABOPV7073R	ME/M. Tech and PhD	30/04/2013	Communication Engineering	8	1	0	Professor	01/10/2013	08/09/2004	Regular	Yes		No
3	Prof.Ch.Ganapathy Reddy	ACUPC9443K	M.E/M.Tech	30/03/1996	Digital Systems	2	0	0	Professor	01/07/2005	06/11/2000	Regular	Yes		No
4	Dr.Renuka Devi S.M	ARBPS4265M	ME/M. Tech and PhD	01/10/2014	Image Processing	13	1	0	Professor	01/08/2019	26/09/2003	Regular	Yes		No
5	Dr.R.Swapna	AEWPR9037C	ME/M. Tech and PhD	06/03/2018	Microwave and Radar Engineering	15	1	0	Professor	01/04/2022	20/06/2008	Regular	Yes		No
6	V.Uma	ACMPV1901D	M.E/M.Tech	29/06/2005	Digital Systems and Computer Electronics	5	0	0	Associate Professor	02/07/2007	03/03/2000	Regular	Yes		No
7	Dr.M.Vijaya Lakshmi	AHKPM7088H	ME/M. Tech and PhD	03/11/2020	Communication Engineering	11	0	0	Associate Professor	01/01/2008	03/03/2000	Regular	Yes		No
8	B.Tulasi Sowjanya	ALQPB7515E	M.E/M.Tech	30/06/2005	Systems and Signal Processing	8	0	0	Assistant Professor		17/01/2007	Regular	Yes		No
9	V.Radha Krishna`	AFKPV3451K	M.E/M.Tech	31/07/2008	Systems and Signal Processing	10	0	0	Assistant Professor		20/12/2004	Regular	Yes		No
10	N.Krishna Jyothi	AGKPN1909P	M.E/M.Tech	31/07/2008	Microwave and Radar Engineering	7	0	0	Assistant Professor		04/12/2006	Regular	Yes		No
11	A.Sujatha Reddy	ALDPA1279P	M.E/M.Tech	31/07/2008	Wireless and Mobile Communication	6	0	0	Assistant Professor		16/06/2008	Regular	Yes		No
12	Dr.P.Chandra Sekhar	AZHPP4218R	ME/M. Tech and PhD	02/09/2022	Audio Signal Processing	6	0	0	Assistant Professor		10/06/2008	Regular	Yes		No
13	M.Madhuri Latha	AMUPM7356B	M.E/M.Tech	30/11/2012	Systems and Signal Processing	3	0	0	Assistant Professor		01/09/2003	Regular	Yes		No
14	P.Sri Padma	AUFPP1312H	M.E/M.Tech	30/11/2012	Systems and Signal Processing	8	0	0	Assistant Professor		05/08/2004	Regular	Yes		No
15	Sarada.A	AKIPA5503C	M.E/M.Tech	30/11/2011	Digital Systems	5	0	0	Assistant Professor		18/06/2007	Regular	No	10/11/2023	No
16	Ch.Hari Prasad	AISPC8945J	M.E/M.Tech	31/07/2008	Digital Systems	3	0	0	Assistant Professor		01/07/2009	Regular	Yes		No
17	Y.Rakesh Kumar	ADZPY0678E	M.E/M.Tech	31/07/2009	Communication Engineering	7	0	0	Assistant Professor		01/07/2009	Regular	Yes		No
18	B.Sreekanth Reddy	AHVPB4623Q	MS	14/12/2007	Electrical Engineering	4	0	0	Assistant Professor		02/01/2012	Regular	Yes		No
19	T.Srilatha	AFZPT9588G	M.E/M.Tech	15/07/2006	Electronics and Instrumentation	7	0	0	Assistant Professor		01/07/2009	Regular	Yes		No
20	Dr.C.Padmaja	AIHPC8896K	ME/M. Tech and PhD	09/09/2020	Wireless Communications	16	0	0	Assistant Professor		01/07/2010	Regular	Yes		No
21	P.Madhuri	CAAPP8508A	M.E/M.Tech	31/10/2011	Digital Electronics and Communication Engineering	7	0	0	Assistant Professor		29/12/2011	Regular	Yes		No
22	K.Swathi	DEJPK9429F	M.E/M.Tech	31/10/2012	Digital Electronics and Communication Engineering	6	0	0	Assistant Professor		05/07/2013	Regular	Yes		No
23	M.Lakshmi	BASPM3282K	M.E/M.Tech	31/07/2009	Communication Engineering	3	0	0	Assistant Professor		27/06/2011	Regular	Yes		No
24	N.Harini	AHOPN4113G	M.E/M.Tech	31/12/2010	Embedded systems	9	0	0	Assistant Professor		30/04/2015	Regular	Yes		No
25	G.V.N.S.K Sravya	BPAPG4991L	M.E/M.Tech	31/12/2014	ELectronics and Communication Engineering	9	0	0	Assistant Professor		27/04/2015	Regular	Yes		No

26	P.Roopa Ranjani	BZKPR6206D	M.E/M.Tech	31/10/2013	VLSI Design	9	0	0	Assistant Professor		27/04/2015	Regular	Yes		No
27	V.Shankar	AIFPV2882A	M.E/M.Tech	31/01/2009	Embedded systems and VLSI design	7	0	0	Assistant Professor		24/08/2015	Regular	Yes		No
28	M.Shanthi	AOJPM2598E	M.E/M.Tech	31/12/2012	Embedded systems	6	0	0	Assistant Professor		24/08/2015	Regular	Yes		No
29	C.Sridharbabu	AYFPB9407M	M.E/M.Tech	19/01/2013	Communication and Signal processing	5	0	0	Assistant Professor		01/06/2016	Regular	Yes		No
30	P.Satyanarayana Goud	AZDPP4174G	M.E/M.Tech	31/07/2010	Digital Systems and Computer Electronics	13	0	0	Assistant Professor		02/01/2017	Regular	Yes		No
31	P Lavanya	BPHPP5011D	M.E/M.Tech	31/12/2012	Embedded systems	8	0	0	Assistant Professor		05/01/2017	Regular	Yes		No
32	G Madhavi	BSHPM9789G	M.E/M.Tech	30/09/2014	Digital Electronics and Communication Engineering	6	0	0	Assistant Professor		05/01/2017	Regular	Yes		No
33	Y Prakash	BSIPP3327C	M.E/M.Tech	05/05/2016	Digital Communications	6	0	0	Assistant Professor		05/01/2017	Regular	Yes		No
34	Ch. Anusha	BCEPC3874M	M.E/M.Tech	30/05/2015	Communication and Signal processing	12	0	0	Assistant Professor		07/03/2018	Regular	Yes		No
35	G.Krishna Kishore	AVJPG4728M	M.E/M.Tech	09/11/2013	VLSI System Design	7	0	0	Assistant Professor		02/05/2022	Regular	Yes		No
36	V.Purna Chandra Reddy	AIQPV3928A	M.E/M.Tech	11/07/2009	Medical Image Processing and Communications	2	0	0	Assistant Professor		14/07/2023	Regular	Yes		No
37	Dr.P.Sai Spandana	BICPP8940D	ME/M. Tech and PhD	31/07/2023	EMI/EMC, RF and Microwaves, Antennas	1	0	0	Assistant Professor		29/09/2023	Regular	Yes		No
38	Nagaraju L	AFFPL7575R	M.E/M.Tech	25/06/2012	Antenna Array signal Processing	0	0	0	Assistant Professor		01/12/2023	Regular	Yes		No
39	Dr. B. Pavani	BCUPB1391N	ME/M. Tech and PhD	13/07/2023	IoT, Wireless Sensor Networks, Wireless Energy Harvesting	1	0	0	Assistant Professor		02/12/2023	Regular	Yes		No
40	N.Malathi	BKRPM0980K	M.E/M.Tech	10/01/2011	Low power VLSI design, Network on chips	0	0	0	Assistant Professor		16/12/2023	Regular	Yes		No
41	Dr.G.Srivalli	APYPG5125P	ME/M. Tech and PhD	05/11/2015	Microwave Engineering	6	0	0	Associate Professor		02/03/2022	Regular	Yes		No
42	A.Deepthi	AIKPA1832E	M.E/M.Tech	30/09/2011	VLSI System	4	0	0	Assistant Professor		25/06/2012	Regular	No	30/09/2022	No
43	Dr.P.V.D. Somasekhar Rao	AGHPP5649R	ME/M. Tech and PhD	12/03/1990	Microwave &Radar Engineering	1	1	0	Professor		10/02/2016	Regular	No	31/10/2022	No
44	Dr.P. Sudhakar Rao	AAAPR3393R	ME/M. Tech and PhD	29/11/2003	Image processing	1	1	0	Professor		19/09/2019	Regular	No	15/03/2022	No
45	E.V.S.S. Vyshnavi	AAZPE9749F	M.E/M.Tech	31/01/2017	Wireless and Mobile Communications	1	0	0	Assistant Professor		01/03/2017	Regular	No	30/07/2022	No
46	M.Bhavana	CHXPM0436J	M.E/M.Tech	30/11/2015	Wireless & Mobile Communications	1	0	0	Assistant Professor		01/03/2017	Regular	No	31/01/2022	No

5.1 Student-Faculty Ratio (SFR) (20) Total Marks 18.00

Institute Marks : 18

UG

No. of UG Programs in the Department 1

B.Tech (Electronics and Communication Engineering)						
Year of Study	**CAY**		**CAYm1**		**CAYm2**	
	(2023-24)		**(2022-23)**		**(2021-22)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**
2nd Year	191	20	194	20	180	18
3rd Year	194	20	180	18	180	18
4th Year	180	18	180	18	180	18
Sub-Total	**565**	**58**	**554**	**56**	**540**	**54**
Total	**623**		**610**		**594**	
Grand Total	623		610		594	

PG

No. of PG Programs in the Department 1

M.Tech (Digital Electronics and Communication Engineering)			
Year of Study	**CAY(2023-24)**	**CAYm1(2022-23)**	**CAYm2 (2021-22)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
1st Year	12	12	18
2nd Year	12	18	18
Total	**24**	**30**	**36**
Grand Total	24	30	36

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 1

Description	**CAY(2023-24)**		**CAYm1 (2022-23)**		**CAYm2 (2021-22)**	
Total No. of Students in the Department(S)	647	**Sum total of all (UG+PG) students**	640	**Sum total of all (UG+PG) students**	630	**Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	40	**F1**	36	**F2**	37	**F3**
Student Faculty Ratio(SFR)	16.18	**SFR1=S1/F1**	17.03	**SFR2=S2/F2**	17.78	**SFR3=S3/F3**
Average SFR	17.00	**SFR=(SFR1+SFR2+SFR3)/3**				
F=Total Number of Faculty Members in the Department (excluding first year faculty)						

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	**Total number of contractual faculty in the department**
CAY(2023-24)	40	0
CAYm1(2022-23)	36	0
CAYm2(2021-22)	37	0

Average SFR for three assessment years : 17.00

Assessment SFR : 18

5.2 Faculty Cadre Proportion (20)

Total Marks 20.00

Institute Marks : 20.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	3.00	4.00	7.00	2.00	21.00	34.00
CAYm1(2022-23)	3.00	4.00	7.00	2.00	21.00	30.00
CAYm2(2021-22)	3.00	4.00	7.00	2.00	21.00	31.00
Average Numbers	3.00	4.00	7.00	2.00	21.00	31.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10 : 20.00

5.3 Faculty Qualification (20)

Total Marks 12.80

Institute Marks : 12.80

	X	Y	F	FQ = 2 x [(10X + 4Y) / F)]
2023-24(CAY)	10	30	32.00	13.75
2022-23(CAYm1)	8	28	31.00	12.39
2021-22(CAYm2)	7	30	31.00	12.26

Average Assessment : 12.80

5.4 Faculty Retention (10)

Total Marks 10.00

Institute Marks : 10.00

Description	2022-23 (CAYm1)	2023-24 (CAY)
No of Faculty Retained	34	33
Total No of Faculty	31	31
% of Faculty Retained	110	106

Average : 108.00

Assessment Marks : 10.00

5.5 Faculty competencies in correlation to Program Specific Criteria (10)

Total Marks 10.00

Institute Marks : 10.00

5.5 Faculty competencies in correlation to Program-Specific Criteria (10)

The faculty competency in the Department of ECE is measured contingent to the Advisory and guidelines set by the National Technical bodies such as AICTE, ISTE, IEEE, IETE and other Associations/Societies of Electronics and Communication Engineering based on the quality contribution by faculty in the Program Specific Criteria. The following are some of the highlights of the Programme Specific Competence of the faculty members:

- The department has faculty members with diverse subject specializations, facilitating the offering of a wide range of specializations, including key areas such as Communication and Signal Processing, VLSI, Digital Image Processing, Microwave and Radar Engineering, Electronics Instrumentation, Communication Systems, Digital Systems, and Digital Electronics and Communication Engineering, among others.
- Owing to the diversity in technical expertise and domains, it becomes more significant due to the faculty's specialization when students performs and participate in several platforms such as hackathons, project participation, and competitions of idea/technical paper presentations etc. Based on the domain knowledge and guidance required, the department is in a position to address and comply effectively.
- Faculty members have demonstrated good competence in research publications during the Assessment years by publishing their research findings in over 301 research articles ranging in high-quality impact journals, reputed conference proceedings, and book chapters of reputed publishers.
- The contributions by the faculty in the course-developmental activities for Teaching & Learning in specific domains correlate closely to the departments specialization and program-specific criteria.
- The department has well-qualified, experienced and highly dedicated faculty with competencies to adequately meet the program-specific criteria. In addition to teaching, the faculty has organised Conferences and Faculty development programs and also involved in various administrative responsibilities such as student mentoring and motivating through various career vision approaches, guiding internship, conducting certification courses, supervising projects, research activities and others on regular basis.
- Faculty members have represented the department in various National platform events throughout the Assessment period where our distinguished faculty members were invited or welcomed to share knowledge in various institutes and interacted with reputed companies and institutions for improving research activities.
- 10 Doctorates are available in the department with teaching and research experience.
- 3 faculty members submitted their Ph.D. thesis to IITKGP, NITAP, OU and waiting for the defence.
- 15 faculty members are pursuing Ph.D. program with various stages of progress.
- The department has a good number of qualified, experienced, and committed faculty that have a combined competency to adequately meet all the program-specific criteria training/teaching needs.

A. Faculty Specialization

The specialized faculty members play a crucial role in teaching students the latest technological advancements, guiding them through practical projects, and preparing them for careers in industries such as telecommunications, electronics, and information technology. Faculty-wise specializations are detailed in Table 5.5.1, special interest groups are summarized in Table 5.5.2, corresponding pie charts are presented in Fig 5.5.1, and further details are provided in Table 5.5.3.

Table 5.5.1 Details of the Faculty Specializations

S.No	Name	Designation	Area of Specialization
1	Dr.K.Ragini	Professor&HOD	Low Power VLSI Design
2	Dr.B.Venkateshulu	Professor & Dean	Communication Engineering
3	Prof.Ch.Ganapathy Reddy	Professor	Digital Systems
4	Dr.Renuka Devi S.M	Professor	Image Processing
5	Dr.R.Swapna	Professor	Microwave and Radar Engineering
6	V.Uma	Assoc. Prof	Digital Systems
7	M.Vijaya Lakshmi	Assoc. Prof,	Digital Systems
8	Dr.G.Srivalli	Assoc. Prof,	Microwave Engineering
9	B.Tulasi Sowjanya	Asst.Prof.	Systems and Signal Processing
10	V.Radha Krishna	Asst.Prof.	Systems and Signal Processing
11	N.Krishna Jyothi	Asst.Prof.	Microwave and Radar Engineering
12	A.Sujatha Reddy	Asst.Prof.	Wireless and Mobile Communication
13	P.Chandra Sekhar	Asst.Prof.	Digital Electronics and Communication Engineering
14	M.Madhuri Latha	Asst.Prof.	Systems and Signal Processing
15	P.Sri Padma	Asst.Prof.	Systems and Signal Processing
16	Sarada.A	Asst.Prof.	Digital Systems
17	Ch.Hari Prasad	Asst.Prof.	Digital Systems
18	Y.Rakesh Kumar	Asst.Prof.	Communication Engineering
19	B. Sreekanth Reddy	Asst.Prof.	Electrical Engineering
20	T. Srilatha	Asst.Prof.	Electronics and Instrumentation
21	C.Padmaja	Asst.Prof.	Electronics Instrumentation Communication Systems
22	P. Madhuri	Asst.Prof.	Digital Electronics and Communication Engineering
23	K.Swathi	Asst.Prof.	Digital Electronics and Communication Engineering
24	M.Lakshmi	Asst.Prof.	Communication Engineering
25	N. Harini	Asst.Prof.	Embedded systems
26	P.Roopa Ranjani	Asst.Prof.	VLSI Design
27	V.Shankar	Asst.Prof.	Embedded systems and VLSI design
28	M.Shanthi	Asst.Prof.	Embedded systems
29	C.Sridhar Babu	Asst.Prof.	Communication and Signal processing
30	P.Satyanarayana Goud	Asst.Prof.	Digital Systems and Computer Electronics
31	P Lavanya	Asst.Prof.	Embedded systems
32	G Madhavi	Asst.Prof.	Digital Electronics and Communication Engineering
33	Y Prakash	Asst.Prof.	Digital Communications
34	Ch. Anusha	Asst.Prof.	Communication and Signal processing
35	G.Krishna Kishore	Asst.Prof	VLSI System Design
36	V.Purna Chandra Reddy	Asst.Prof	Advanced Communication Systems
37	Dr.Sai Spandana	Asst.Prof	Embedded system technologies
38	Nagaraju L	Asst.Prof	Electronics and Instrumentation Engineering
39	Dr. B. Pavani	Asst.Prof	Embedded systems
40	N.Malathi	Asst.Prof	VLSI system design
41	A.Deepthi	Asst.Prof.	VLSI System design
42	Dr.P.V.D. Somasekhar Rao	Professor & Dean Academics (2021-22)	Microwave &Radar Engineering
43	G.V.N.S.K Sravya	Asst.Prof.	Electronics and Communication Engineering
44	Dr.P. Sudhakar Rao	Professor Dean R & D (2021-22)	Image processing
45	EVSS Vyshnavi	Asst.Prof.	Wireless and Mobile communications

46	M.Bhavana	Asst.Prof.	Wireless & Mobile Communications

Table 5.5.2 Summary of Special Interest Group in the Department

Name of Special Interest group	No. of faculty	Faculty Special Interest group (%)
Communication Systems	20	44%
Signal Processing (Speech and Image Processing)	12	26%
VLSI Design	7	15%
Embedded and IoT	7	15%

Fig. 5.5.1 Pie-Chart of Special Interest Groups

Table 5.5.2.1 Detailed list of faculty in Special Interest Groups (SIGs)

S.No	Research/Special Interest Group name	Faculty names
1	Communication Systems	Dr. B. Venkateshulu
		Dr. M. Vijaya Lakshmi
		Dr. Swapna Raghunath
		B. Tulasi Sowjanya
		N. Krishna Jyothi
		A. Sujatha Reddy
		P. Sri Padma
		M. Madhuri Latha
		Dr. C. Padmaja
		P. Madhuri
		M. Lakshmi
		K. Swathi
		Dr. G. Srivalli
		C. Sridhar Babu
		Ch. Anusha
		Dr. P. Sai Spandana
		Dr.P.V.D. Somasekhar Rao
		G.V.N.S.K Sravya
		EVSS Vyshnavi
		M.Bhavana
2	Signal Processing (Speech and Image Processing)	Dr. Renuka Methre
		Prof. Ch. Ganapathi Reddy
		Y. Rakesh Kumar
		V. Uma
		Dr. P. Chandrasekhar
		Y. Prakash
		P. Satyanarayana Goud
		G. Madhavi
		V. Purna Chandra Reddy
		L. Nagaraju
		Dr.P. Sudhakar Rao
		Sarada
3	VLSI Design	Dr. K. Ragini
		V. Radha Krishna
		B. Sreekanth Reddy
		P. Roopa Ranjani
		V. Shankar
		G. Krishna Kishore
		A.Deepthi
4	Embedded and IoT	Ch. Hari Prasad
		T. Srilatha
		N. Harini
		M. Shanthi

		P. Lavanya
		Dr. B. Pavani
		N. Malathi

B. Research Publications

Faculty research publications are important because they contribute new knowledge and insights to the field of Engineering. These publications also enhance the reputation of the institution and its faculty, attracting students, funding, and collaborations. Additionally, they provide students with access to cutting-edge information and foster a culture of critical thinking and inquiry. The faculty-wise list of total research publications with citations, different researcher IDs, and links is detailed in Table 5.5.3. A summary of the number of publications in Journals, Conferences, and Books/Book Chapters during the assessment period is presented in Table 5.5.4. The bar graph of SCI, SCOPUS, and total publications during the assessment period is presented in Fig. 5.5.4.1 to Fig. 5.5.4.3.

Table 5.5.3. List of total Research Publications with citations, different Researcher ID's and links

S.No.	Name of the faculty	Total Pblications	Total Citations	H-Index	i10-Index	Orcid ID	WoS Researcher ID	Scopus Author ID	Web of Science link	Scopus link	Vidwan ID
1	Dr.K.Ragini	45	90	6	2	0000-0002-0803-0496	D-2613-2019	58746266300	http://webofscience.com/wos/author/record/D-2613-2019 (http://webofscience.com/wos/author/record/D-2613-2019)	https://www.scopus.com/authid/detail.uri?authorId=58746266300 (https://www.scopus.com/authid/detail.uri?authorId=58746266300)	https://gnits.irins.org/profile/148960 (https://gnits.irins.org/profile/148960)
2	Dr.B.Venkatesulu	25	12	2	1	0000-0002-1847-9123	D-2735-2019	55441679300	https://www.webofscience.com/wos/author/record/D-2735-2019 (https://www.webofscience.com/wos/author/record/D-2735-2019)	https://www.scopus.com/authid/detail.uri?authorId=55441679300 (https://www.scopus.com/authid/detail.uri?authorId=55441679300)	https://gnits.irins.org/profile/148908 (https://gnits.irins.org/profile/148908)
3	Ch.Ganapathy Reddy	26	72	4	3	0000-0001-6587-1702	ACO-3784-2022	46161163900	https://www.webofscience.com/wos/author/record/2941683 (https://www.webofscience.com/wos/author/record/2941683)	https://www.scopus.com/authid/detail.uri?authorId=46161163900 (https://www.scopus.com/authid/detail.uri?authorId=46161163900)	https://gnits.irins.org/profile/148930 (https://gnits.irins.org/profile/148930)
4	Dr.Renuka Devi S M	44	50	5	1	0000-0003-4604-0908	D-1847-2019	55552798800 (http://www.scopus.com/authid/detail.url?authorId=55552798800)	https://www.webofscience.com/wos/author/record/1275259 (https://www.webofscience.com/wos/author/record/1275259)	https://www.scopus.com/authid/detail.uri?authorId=55435054500 (https://www.scopus.com/authid/detail.uri?authorId=55435054500)	https://gnits.irins.org/profile/149037 (https://gnits.irins.org/profile/149037)
5	Dr.Swapna Raghunath	44	98	6	4	0000-0003-1735-3526	L-3420-2018	56878757000 (http://www.scopus.com/authid/detail.url?authorId=56878757000)	https://www.webofscience.com/wos/author/record/704868	https://www.scopus.com/authid/detail.uri?authorId=56878757000 (https://www.scopus.com/authid/detail.uri?authorId=56878757000)	https://gnits.irins.org/profile/149031 (https://gnits.irins.org/profile/149031)
6	V.Uma	7	0	0	0	0000-0001-8014-0262	HMV-8913-2023	-	https://www.webofscience.com/wos/author/record/HMV-8913-2023 (https://www.webofscience.com/wos/author/record/HMV-8913-2023)	-	https://gnits.irins.org/profile/149068 (https://gnits.irins.org/profile/149068)

7	Dr.M.Vijaya Lakshmi	20	33	3	0	0000-0001-5315-6947 (https://orcid.org/0000-0001-5315-6947)	D-2833-2019	57205231913	https://www.webofscience.com/wos/author/record/D-2833-2019	https://www.scopus.com/authid/detail.uri?authorId=57205231913 (https://www.scopus.com/authid/detail.uri?authorId=57205231913)	https://gnits.irins.org/profile/148997 (https://gnits.irins.org/profile/148997)
8	Dr.G.Srivalli	35	23	2	1	0000-0002-1374-774X (https://orcid.org/0000-0002-1374-774X)	D-4946-2019	57217481022	https://www.webofscience.com/wos/author/record/1064860 (https://www.webofscience.com/wos/author/record/1064860)	https://www.scopus.com/authid/detail.uri?authorId=57217481022 (https://www.scopus.com/authid/detail.uri?authorId=57217481022)	https://gnits.irins.org/profile/466242 (https://gnits.irins.org/profile/466242)
9	B.Tulasi Sowjanya	7	0	0	0	0000-0001-6224-1123 (https://orcid.org/0000-0001-6224-1123)	JVO-3393-2024	57216323096	https://www.webofscience.com/wos/author/record/JVO-3393-2024 (https://www.webofscience.com/wos/author/record/JVO-3393-2024)	https://www.scopus.com/authid/detail.uri?authorId=57216323096 (https://www.scopus.com/authid/detail.uri?authorId=57216323096)	https://gnits.irins.org/profile/148917 (https://gnits.irins.org/profile/148917)
10	V. Radha Krishna	10	0	0	0	0000-0003-4079-5736 (https://orcid.org/0000-0003-4079-5736)	D-2772-2019	-	https://www.webofscience.com/wos/author/record/298987 (https://www.webofscience.com/wos/author/record/298987)	-	https://gnits.irins.org/profile/149077 (https://gnits.irins.org/profile/149077)
11	N.Krishna Jyothi	11	2	1	0	0000-0002-6476-0952 (https://orcid.org/0000-0002-6476-0952)	HNI-0419-2023	57206209719	https://www.webofscience.com/wos/author/record/968792 (https://www.webofscience.com/wos/author/record/968792)	https://www.scopus.com/authid/detail.uri?authorId=57206209719 (https://www.scopus.com/authid/detail.uri?authorId=57206209719)	https://gnits.irins.org/profile/149003 (https://gnits.irins.org/profile/149003)
12	A.Sujatha Reddy	11	21	2	1	0000-0003-4625-5765 (https://orcid.org/0000-0003-4625-5765)	D-2611-2019	57216455888	https://www.webofscience.com/wos/author/record/944110 (https://www.webofscience.com/wos/author/record/944110)	https://www.scopus.com/authid/detail.uri?authorId=57216455888 (https://www.scopus.com/authid/detail.uri?authorId=57216455888)	https://gnits.irins.org/profile/148904 (https://gnits.irins.org/profile/148904)
13	Dr.P Chandra Sekhar	8	85	5	3	0000-0003-3389-4330 (https://orcid.org/0000-0003-3389-4330)	AAE-2633-2021	57209279424	https://www.webofscience.com/wos/author/record/2201734 (https://www.webofscience.com/wos/author/record/2201734)	https://www.scopus.com/authid/detail.uri?authorId=57209279424 (https://www.scopus.com/authid/detail.uri?authorId=57209279424)	https://gnits.irins.org/profile/149012 (https://gnits.irins.org/profile/149012)

14	M.Madhuri Latha	4	9	2	0	0000-0002-6375-8789 (https://orcid.org/0000-0002-6375-8789)	AAD-8796-2021	57221321082	https://www.webofscience.com/wos/author/record/AAD-8796-2021 (https://www.webofscience.com/wos/author/record/AAD-8796-2021)	https://www.scopus.com/authid/detail.uri?authorId=57221321082 (https://www.scopus.com/authid/detail.uri?authorId=57221321082)	https://gnits.irins.org/profile/148999 (https://gnits.irins.org/profile/148999)
15	P. Sri Padma	11	3	1	0	0000-0002-1107-6014 (https://orcid.org/0000-0002-1107-6014)	GNH-2271-2022	57225045398	https://www.webofscience.com/wos/author/record/58810 (https://www.webofscience.com/wos/author/record/58810)	https://www.scopus.com/authid/detail.uri?authorId=57225045398 (https://www.scopus.com/authid/detail.uri?authorId=57225045398)	https://gnits.irins.org/profile/149027 (https://gnits.irins.org/profile/149027)
16	Ch.Hari Prasad	3	0	0	0	0000-0002-5550-288X (https://orcid.org/0000-0002-5550-288X)	D-2751-2019	-	https://www.webofscience.com/wos/author/record/D-2751-2019 (https://www.webofscience.com/wos/author/record/D-2751-2019)	-	https://gnits.irins.org/profile/148931 (https://gnits.irins.org/profile/148931)
17	Y.Rakesh Kumar	26	95	5	3	0000-0001-5038-1786 (https://orcid.org/0000-0001-5038-1786)	D-3631-2019	57224670211	https://www.webofscience.com/wos/author/record/1278474 (https://www.webofscience.com/wos/author/record/1278474)	https://www.scopus.com/authid/detail.uri?authorId=57224670211 (https://www.scopus.com/authid/detail.uri?authorId=57224670211)	https://gnits.irins.org/profile/149083 (https://gnits.irins.org/profile/149083)
18	B.Sreekanth Reddy	6	0	0	0	0000-0002-7386-9132	D-2734-2019 (http://www.researcherid.com/rid/D-2734-2019)	57226608409 (http://www.scopus.com/authid/detail.url?authorId=57226608409)	https://www.webofscience.com/wos/author/record/1109525 (https://www.webofscience.com/wos/author/record/1109525)	https://www.scopus.com/authid/detail.uri?authorId=57226608409 (https://www.scopus.com/authid/detail.uri?authorId=57226608409)	https://gnits.irins.org/profile/148916 (https://gnits.irins.org/profile/148916)
19	T.Srilatha	7	7	2	0	0000-0003-1626-4548	D-2764-2019	-	https://www.webofscience.com/wos/author/record/D-2764-2019 (https://www.webofscience.com/wos/author/record/D-2764-2019)	-	https://gnits.irins.org/profile/149062 (https://gnits.irins.org/profile/149062)
20	Dr.C.Padmaja	29	26	3	1	0000-0003-0521-916X (https://orcid.org/0000-0003-0521-916X)	D-2555-2019	56825865900	https://www.webofscience.com/wos/author/record/160438 (https://www.webofscience.com/wos/author/record/160438)	https://www.scopus.com/authid/detail.uri?authorId=56825865900 (https://www.scopus.com/authid/detail.uri?authorId=56825865900)	https://gnits.irins.org/profile/148921 (https://gnits.irins.org/profile/148921)

21	P.Madhuri	8	5	1	0	0000-0002-8852-4727	D-2648-2019	-	https://www.webofscience.com/wos/author/record/D-2648-2019 (https://www.webofscience.com/wos/author/record/D-2648-2019)	-	https://gnits.irins.org/profile/149019 (https://gnits.irins.org/profile/149019)
22	K.Swathi	6	1	1	0	0000-0002-8360-1624	D-2752-2019	-	https://www.webofscience.com/wos/author/record/KEE-7626-2024 (https://www.webofscience.com/wos/author/record/KEE-7626-2024)	-	https://gnits.irins.org/profile/148964 (https://gnits.irins.org/profile/148964)
23	M.Lakshmi	5	0	0	0	0000-0002-7608-2220 (https://orcid.org/0000-0002-7608-2220)	D-2780-2019	-	https://www.webofscience.com/wos/author/record/232499 (https://www.webofscience.com/wos/author/record/232499)	-	https://gnits.irins.org/profile/148988 (https://gnits.irins.org/profile/148988)
24	N. Harini	14	0	0	0	0000-0002-0515-2068 (https://orcid.org/0000-0002-0515-2068)	D-2741-2019	-	https://www.webofscience.com/wos/author/record/720775 (https://www.webofscience.com/wos/author/record/720775)	https://www.scopus.com/dashboard.uri?origin=&zone=TopNavBar (https://www.scopus.com/dashboard.uri?origin=&zone=TopNavBar)	https://gnits.irins.org/profile/149001 (https://gnits.irins.org/profile/149001)
25	P.Roopa Ranjani	12	3	1	0	0000-0003-0085-0155 (https://orcid.org/0000-0003-0085-0155)	ACV-2972-2022	-	https://www.webofscience.com/wos/author/record/3014305 (https://www.webofscience.com/wos/author/record/3014305)	-	https://gnits.irins.org/profile/149038 (https://gnits.irins.org/profile/149038)
26	V.Shankar	5	0	0	0	0000-0003-3368-8289	D-2775-2019	-	https://www.webofscience.com/wos/author/record/D-2775-2019 (https://www.webofscience.com/wos/author/record/D-2775-2019)	-	https://gnits.irins.org/profile/149072 (https://gnits.irins.org/profile/149072)
27	M. Shanthi	7	1	0	0	0000-0002-7446-2596 (https://orcid.org/0000-0002-7446-2596)	D-2725-2019	-	https://www.webofscience.com/wos/author/record/269279 (https://www.webofscience.com/wos/author/record/269279)	-	https://gnits.irins.org/profile/148989 (https://gnits.irins.org/profile/148989)
28	C.Sridhar Babu	4	0	0	0	0000-0002-8768-6521 (https://orcid.org/0000-0002-8768-6521)	D-2749-2019	-	https://www.webofscience.com/wos/author/record/D-2749-2019 (https://www.webofscience.com/wos/author/record/D-2749-2019)	-	https://gnits.irins.org/profile/148923 (https://gnits.irins.org/profile/148923)

29	P.Satyanarayana Goud	12	4	0	0	0000-0002-1457-8597	D-2607-2019	-	https://www.webofscience.com/wos/author/record/D-2607-2019 (https://www.webofscience.com/wos/author/record/D-2607-2019)	-	https://gnits.irins.org/profile/149025 (https://gnits.irins.org/profile/149025)
30	P. Lavanya	8	0	0	0	0000-0003-2552-0451 (https://orcid.org/0000-0003-2552-0451)	D-2739-2019	-	https://www.webofscience.com/wos/author/record/814483 (https://www.webofscience.com/wos/author/record/814483)	-	https://gnits.irins.org/profile/149018 (https://gnits.irins.org/profile/149018)
31	G. Madhavi	6	0	0	0	0000-0002-5527-3810 (https://orcid.org/0000-0002-5527-3810)	D-2847-2019	-	https://www.webofscience.com/wos/author/record/819071 (https://www.webofscience.com/wos/author/record/819071)	-	https://gnits.irins.org/profile/148948 (https://gnits.irins.org/profile/148948)
32	Y.Prakash	8	0	0	0	0000-0002-6100-4166	HMV-9153-2023	-	https://www.webofscience.com/wos/author/record/HMV-9153-2023 (https://www.webofscience.com/wos/author/record/HMV-9153-2023)	-	https://gnits.irins.org/profile/149082 (https://gnits.irins.org/profile/149082)
33	Ch.Anusha	15	3	1	0	0000-0002-8965-9834 (https://orcid.org/0000-0002-8965-9834)	D-2519-2019	57807026300	https://www.webofscience.com/wos/author/record/1295225 (https://www.webofscience.com/wos/author/record/1295225)	https://www.scopus.com/authid/detail.uri?authorId=57807026300 (https://www.scopus.com/authid/detail.uri?authorId=57807026300)	https://gnits.irins.org/profile/148928 (https://gnits.irins.org/profile/148928)
34	G.Krishna Kishore	11	0	0	0	0000-0002-7005-4544	AFZ-4991-2022	-	https://www.webofscience.com/wos/author/record/AFZ-4991-2022 (https://www.webofscience.com/wos/author/record/AFZ-4991-2022)	-	https://gnits.irins.org/profile/415709
35	V. Poorna Chandra Reddy	6	21	2	1	0000-0003-2600-0677 (https://orcid.org/0000-0003-2600-0677)	-	-	https://www.webofscience.com/wos/author/record/KEE-7800-2024	-	https://gnits.irins.org/profile/287500 (https://gnits.irins.org/profile/287500)
36	Dr. P. Sai Spandana	7	14	2	0	0000-0001-5158-1421	HNC-1297-2023	57561308200	https://www.webofscience.com/wos/author/record/38421511 (https://www.webofscience.com/wos/author/record/38421511)	https://www.scopus.com/authid/detail.uri?authorId=57561308200 (https://www.scopus.com/authid/detail.uri?authorId=57561308200)	https://gnits.irins.org/profile/466257 (https://gnits.irins.org/profile/466257)

37	L Nagaraju	12	9	2	0	0000-0002-9938-7270	-	57431750200	https://www.webofscience.com/wos/author/record/AGG-7208-2022 (https://www.webofscience.com/wos/author/record/AGG-7208-2022)	https://www.scopus.com/authid/detail.uri?authorId=57431750200 (https://www.scopus.com/authid/detail.uri?authorId=57431750200)	https://gnits.irins.org/profile/466416 (https://gnits.irins.org/profile/466416)
38	Dr B Pavani	11	17	2	1	0000-0003-3268-5553 (https://orcid.org/0000-0003-3268-5553)	-	57686127800	-	https://www.scopus.com/authid/detail.uri?authorId=57686127800 (https://www.scopus.com/authid/detail.uri?authorId=57686127800)	https://gnits.irins.org/profile/467755 (https://gnits.irins.org/profile/467755)
39	N. Malathi	5	31	3	2	0009-0000-1148-4344 (https://orcid.org/0009-0000-1148-4344)	-	57222054256	-	https://www.scopus.com/authid/detail.uri?authorId=57222054256 (https://www.scopus.com/authid/detail.uri?authorId=57222054256)	https://gnits.irins.org/profile/467122 (https://gnits.irins.org/profile/467122)

Table 5.5.4 Number of publications in Journals, Conferences and Books/Book Chapters during Assessment period

Academic Year	Journals				Books/Book Chapters/Conference Proceedings				Total
	SCI/ESCI/ WoS	SCOPUS/ Springer	Others	Total	BOOKS	SCOPUS-Conference	Others	Total	
2023-24	2(under review)	2	44	46	-	6	-	6	52
2022-23	6	9	74	89	70	15	2	87	176
2021-22	2	5	18	25	3	6	-	9	34
2020-21	4	3	7	14	-	19	6	25	39
Total	12	19	143	174	73	46	8	127	301

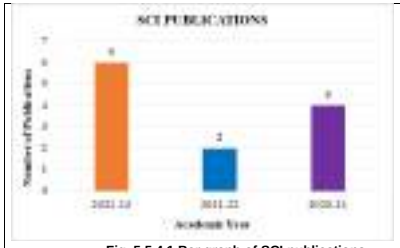


Fig. 5.5.4.1 Bar graph of SCI publications

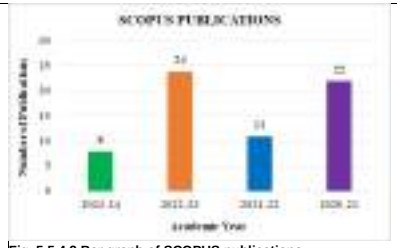


Fig. 5.5.4.2 Bar graph of SCOPUS publications

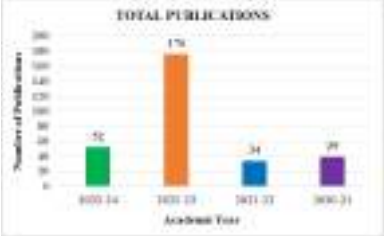


Fig. 5.5.4.3 Bar graph of Total publications during Assessment period

C. Course Developments

Faculty commitment to ongoing course development ensures that our curriculum remains at the forefront of innovation and relevance. Faculty proficiency in course development guarantees a dynamic and enriching learning experience for students. By providing students with login credentials, they gain exclusive access to a treasure trove of video content meticulously crafted by our ECE faculty, enriching their educational journey beyond the confines of traditional classrooms. Table 5.5.5 presents faculty competency in course development along with a link, while Table 5.5.6 lists some of the online video content developed by ECE faculty for the benefit of students, accessible anytime with their login credentials provided. Additionally, a faculty YouTube link on Digtial Signal Processing subject is provided.

Table 5.5.5 Faculty Competency in Course Developments

S.No	Name of the Faculty	Name of the Course
1	Prof Ch. Ganapathi Reddy	Digital Signal Processing
2	Dr. Swapna Raghunath	Global Positioning System
3	Dr. Swapna Raghunath	Global Navigation and Satellite Systems
4	Dr. Swapna Raghunath	Research Methodology& Intellectual Property Rights
5	Dr.M.Vijaya Lakshmi	Principles of Wireless Commutation
6	N. Krishna Jyothi	Electromagnetic Theory and Transmission Lines
7	B. Tulasi Soujanya	Probability Theory and Stochastic Processes
8	P. Sripadma	Network Theory
9	T. Srilatha	Microprocessors &Microcontrollers
10	Dr. C. Padmaja	Wireless and Mobile Communication
11	P. Madhuri	Digital Electronics and Logic Design
12	K. Swathi	Analog and Digital Communication

The link to accesse the courses developed by ECE faculty is **https://www.gnits.ac.in/e-content/** (https://www.gnits.ac.in/e-content/)

Table 5.5.6 List of some of the online video content developed by ECE faculty for the benefit of students to access any time with their login credentials

S.No	Name of the Course contents Developed	Name of the Faculty	Link
1	Bio-Medical Electronics	Ch Hari Prasad	https://a.impartus.com/ilc/#/course/814099/990 (https://a.impartus.com/ilc/#/course/814099/990)
2	Artificial Intelligence	Dr. Renuka Devi SM	https://a.impartus.com/ilc/#/course/2713391/990 (https://a.impartus.com/ilc/#/course/2713391/990)
3	Digital Image and Video Processing	Y.Rakesh Kumar	https://a.impartus.com/ilc/#/course/2713368/990 (https://a.impartus.com/ilc/#/course/2713368/990)
4	Microprocessors and Microcontrollers	T. Srilatha	https://a.impartus.com/ilc/#/course/814299/990 (https://a.impartus.com/ilc/#/course/814299/990)
5	VLSI Design	Deepthi A	https://a.impartus.com/ilc/#/course/814077/990 (https://a.impartus.com/ilc/#/course/814077/990)
6	Network Theory	P Sripadma	https://a.impartus.com/ilc/#/course/814060/990 (https://a.impartus.com/ilc/#/course/814060/990)
7	Electromagnetic Theory And Transmission Lines	Dr Swapna Raghunath	https://a.impartus.com/ilc/#/course/2165112/990 (https://a.impartus.com/ilc/#/course/2165112/990)
8	Internet of Things	Ch Anusha	https://a.impartus.com/ilc/#/course/814114/990 (https://a.impartus.com/ilc/#/course/814114/990)
9	Information Theory and Coding	A Sujatha Reddy	https://a.impartus.com/ilc/#/course/814082/990 (https://a.impartus.com/ilc/#/course/814082/990)
10	Analog and Digital Communications	Dr. C Padmaja	https://a.impartus.com/ilc/#/course/814071/990 (https://a.impartus.com/ilc/#/course/814071/990)

- Content uploaded in Youtube by the faculty (Prof. Ch. Ganpathy Reddy on Digital Signal Processing Subject)

  https://www.youtube.com/watch?v=tRP9ey05ywo&list=PLFjNBqQ46lNsdfAsKQX887AN3ErEN-JHz (https://www.youtube.com/watch?v=tRP9ey05ywo&list=PLFjNBqQ46lNsdfAsKQX887AN3ErEN-JHz)

D. Other Relevant information

This section presents other relevant information regarding faculty competency, covering various aspects. Faculty roles as reviewers are detailed in Table 5.5.7, their participation as BoS (Board of Studies) members is presented in Table 5.5.8, and their involvement as project external/observers is outlined in Table 5.5.9. Additionally, faculty interactions with the outside world are documented in Table 5.5.10, their roles as external question paper setters are specified in Table 5.5.11, and faculty who have served as resource persons are listed in Table 5.5.12. Membership in professional bodies is detailed in Table 5.5.13, faculty awards are presented in Table 5.5.14, and faculty intellectual property rights are documented in Table 5.5.15. Completion of NPTEL (National Programme on Technology Enhanced Learning) online courses by faculty is provided in Tables 5.5.16 to 5.5.19, while faculty development programs (FDPs) conducted within the department are listed in Table 5.5.20. Furthermore, national and international conferences organized by faculty members are highlighted in Table 5.5.21, and administrative duties are outlined in Table 5.5.22.

Table 5.5.7 Faculty as Reviewers in Journals/Conferences/Editorial board member/Technical committee members/Session Chair member etc.

S.No	Name of the faculty	Nature of Contribution	Details of associated Organization / Journal / Conference etc.	National / International	Date / Duration
1	Dr.K. Ragini	Session Chair	AICTE Sponsored International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (Virtual)ICRDASIA_2020 organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP)	International	26th,27 th and 28th November-2020
2		Delegate	Women in Leadership Conclave, conducted in GNITS, Hyderabad	National	8th & 9th March,2023
3	Dr.B. Venkateshulu	Session Co-Chair	ICDMLA Conference in GNITS	International	15th December 2023
4			IETE, Hyderabad	National	November 2022
5	Dr.B. Venkateshulu	VIP Management Chair	Women in Leadership Conclave, conducted in GNITS	National	8th March 2023
6	Dr. P.V.D. Somasekhar Rao	Session chair	International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA_2020) organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP)	International	26th-27th November 2020
7	Dr. Renuka Devi SM	Reviewer	2nd International Conference on Signal Processing &Communication Engineering (ICASPACE)2023 organized by the Department of ECE, MGIT, Hyderabad	International	28-29 April 2023
8			IEI Journals	National	2021 & 2023
9	Dr. Renuka Devi SM	Executive Committee Member	Member in WIE Affinity Group IEEE Hyderabad Section State,2020	International	2020
10	Dr. Renuka Devi SM	Session chair	International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA_2020) during 26/11/2020 & 27/11/2020 organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP)	International	2020
11	Dr. Swapna Raghunath	Theme Chair	Women in Academia in Women in Leadership Conclave – 2023	National	8th & 9th March 2023
12	Dr. Swapna Raghunath	Reviewer	IEEE Geoscience and Remote Sensing Letters	International	2022 & 2023
13			IEEE Transactions on Geoscience and Remote Sensing	International	2021 & 2022
14			The Journal IEEE ACCESS Springer Journals	International	2020
15			2nd International Conference on Soft Computing and Signal Processing (ICSCSP-2020) in association with esteemed Springer Publications at Malla Reddy Engineering College, Hyderabad	International	21-22 August 2020
16			IEEE Journal of Selected Topics in Advanced Earth Observation Systems (JSTARS)	International	2020
17	Dr. Swapna Raghunath	Editorial Board Member	Journal of Satellite Oceanography and Meteorology	International	2020 to till date
			International Journal of Atmospheric and Oceanic Sciences (IJAOS), Science Publishing Group, USA	International	2020 to till date
18	Dr. Swapna Raghunath	Steering Committee chair	International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA_2020) organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP).	International	26-27th November 2020

20	Dr. M. Vijaya Lakshmi	Steering Committee chair	International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA_2020) organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP)	International	26-27th November 2020
21	Dr.G. Srivalli	Session chair	8th 'IEEE International Symposium on Smart Electronic Systems (ISES 2022) NIT, Warangal	International	19-21 December 2022
22	Dr.G. Srivalli	Reviewer	WAMS IEEE Wireless, Antenna and Microwave Symposium WAMS 2023', RIT, Visakhapatnam, Andhra Pradesh	International	29 Feb – 3 march 2024
23			IEEE Wireless, Antenna and Microwave Symposium WAMS 2023', PDEU, Gandhinagar, Gujarat,	International	7-10 June 2023
24			8th 'IEEE International Symposium on Smart Electronic Systems (ISES 2022) NIT, Warangal	International	19-21 December 2022
25			IEEE International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication systems ICMACC 2022, VNRVJIT, Hyderabad	International	28-30 December 2022
26	A. Sujatha Reddy	Reviewer	Reviewer for IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)	International	September 2020
26	M. Madhuri Latha	Reviewer	VTC2021-Fall Recent Results and Workshops conference	International	2021
27	Dr. C. Padmaja	Reviewer	International Conference of Emerging Trends in Circuit branch Technologies and Applications-2021 (ETCTA2021)	International	2021
28			1st IEEE MTT / AP Society Bangalore JT Chapter MAPCON	International	December 12th -15th 2022
29			2nd International Conference on "Advances in Signal Processing & Communication"	International	2023
30			International Conference on Microwave, Antenna and Communication (MAC 2023) organized by Motilal Nehru National Institute of Technology Allahabad Prayagraj, India during 24-26 March 2023.	International	2023
31	Dr. C. Padmaja	Session chair	International Conference on Robotics Design and Applications using Wireless Sensor networks, IoT and Artificial Intelligence (ICRDASIA_2020) organized by G. Narayanamma Institute of Technology and Science (for Women), Telangana, India and Institute for Engineering Research and Publication (IFERP).	International	November 26th-27th 2020
32	Y. Rakesh Kumar	Session Chair	Online National Conference NCETE 2020 in association with Geetanjali institute of Science and Technology, Nellore, Andhra Pradesh on 14/6/ 2020, Sunday.	National	2020
33		Reviewer	IEEE Access, Journal of Intelligent Systems	International	2020, 2021
34			Journal of Intelligent Systems	International	2020
35			Journal of Scientific Research	International	2021
36	Dr. P. Sai Spadana	Reviewer	Progress in Electromagnetic Research (PIER), Engineering, Technology and Applied Science Research, and Bulletin of Electrical Engineering and Informatics Journals.	International	2023

Table 5.5.8 Details of Faculty as BoS Members (CAY:2023-24)

S.No	Name & Designation	Member Category
1	Dr. B. Venkateshulu, Professor ECE & Dean Alumnae, GNITS	BoS Chair
2	Dr. K. Ragini, Professor & Head, ECE, GNITS	Internal Member
3	Prof. Ch. Ganapathi Reddy, Professor of ECE, GNITS	Internal Member
4	Dr. Renuka Devi S. M., Professor of ECE, GNITS	Internal Member
5	Dr. Swapna Raghunath, Associate Professor of ECE, GNITS	Internal Member

Table 5.5.9 Details of Faculty as Project External/Observer

S.No	Name of the Faculty	Name of the College attended	Project External/Observer	Date
1	Prof.Ch. Ganapathi Reddy	Sree Datha Institute of Engineering and Science	Project External	25-06-2023
2	Dr. Swapna Raghunath	Vasavi College of Engineering	Project External	22-05-2023
3	Prof.Ch. Ganapathi Reddy	Mahatma Gandhi Institute of Technology (MGIT)	Project External	12-01-2023
4	Prof.Ch. Ganapathi Reddy	Sree Datha Institute of Engineering and Science	Project External	09-01-2023
5	Ch. Hari Prasad	JNTUH	Mini Project External	09-01-2023
6	Dr. K. Ragini	Chaitanya Bharathi Institute of Technology (CBIT)	Project External	12-11-2022
7	Ch. Hari Prasad	Vasavi College of Engineering	Theme Based Project	06-05-2023
8	A. Sujatha Reddy	Vidya Jyothi Institute of Technology (VJIT)	Project External	22-03-2022
9	Ch. Hari Prasad	JNTU, Sultanpur	Mini Project External	25-2-2022
10	Dr.K. Ragini	Vasavi College of Engineering	Project External	8-12-2021
11	Y. Rakesh Kumar	Joginpally B.R. Engineering College (JBREC)	Observer	1-7-2021 to 10-07-2021
12	Prof.Ch. Ganapathi Reddy	Mahatma Gandhi Institute of Technology (MGIT)	Project External	24-2-2021

Table 5.5.10 Details of Faculty Interactions with other Institutions/Companies

S.No	Name of the faculty	Name of the organisation	Dates
1	Dr.K. Ragini	Smart Bridge	December 2023
		Math works	22/11/2023
		IETE, Hyderabad	15/10/2023
		Math works	22/8/2023
		Math works	25/4/2022 to 26/4/2022
		Maven Silicon Softech Private Limited, Bangalore, India	5/10/ 2023
		PVR Tech. Hub	5/1/2022
		Capricot Technologies Pvt. Ltd.	9/2/2023
		Braine Enterprises	22/8/2023
		Math works	16/6/2020 to 17/6/2020
2	Dr.B. Venkateshulu	Math works	22/11/2023
		IETE, Hyderabad	15/10/2023
		Math works	22/8/2023
		Capricot Technologies Pvt. Ltd.	9/2/2023
		Math works	25/4/2022 to 26/4/2022
		PVR Tech. Hub	5/1/2022
		Parkhya Solutions	November, 2021
		Kwality Photonics	November, 2021
		Math works	16/6/2020 to 17/6/2020
3	Dr. Renuka Methre	Smart Bridge	8/1/2024
		IIITH	27/10/2023
		Math works	5/5/2022
		University of Hyderabad	20/7/2020 to 24/7/2020

		NIT warangal	20/7/2020 to 24/7/2020
		Math works	13/7/2020 to 24/7/2020
		E&ICT Academy, NIT Patna	7/7/2020 to 7/8/2020
		Intel Technologies India Pvt. Ltd.	7/7/2020 to 7/8/2020
		SoCtronics Pvt Ltd.	7/7/2020 to 7/8/2020
		University of Hyderabad	20/7/2020 to 24/7/2020
		NIT warangal	20/7/2020 to 24/7/2020
4	Dr. Swapna Raghunath	IITM	12/12/2023 to 14/12/2023
		Braine Enterprises	22/8/2023
		Dr. A. Ramesh Kumar, AssistantGeneral Manager (CNS), ATC AAI SHAMSHABAD	18/03/2023 and 27/03/2023
		PVR Tech HUB	18/11/2022 &19/11/2022
		TIX Robotics	18/11/2022 & 19/11/2022
		Syncor Solutions Pvt. Ltd.	30/9/2022
		Intellectual Property Office, India	17/6/2022
		IIRS ISRO outreach program	17/1/2022 to 28/1/2022
5	M.Vijaya Lakshmi	IITM	12/12/2023 to 14/12/2023
6	N. Krishna Jyothi	Navstar	12/5/2023
7	V. Radha Krishna	IETE, Hyderabad	15/10/2023
		Kwality Photonics Industry, Kushaiguda, secundrabad	13/12/2023
8	Dr.P. Chandra Sekhar	GMR Air Cargo Services Pvt.Ltd	23/3/2023
9	M.Madhurilatha	Math works	22/11/2023
		Capricot Technologies Pvt. Ltd.	9/2/2023
		Math works	22/8/2023
		Math works	25/4/2022 to 26/4/2022
		Math works	16/6/2020 to 17/6/2020
11	Ch. Hari Prasad	Maven Silicon Softech Private Limited, Bangalore, India	5/10/ 2023
12	Y.Rakesh Kumar	ISRO, Sriharikota	14/3/24
		Kwality Photonics Industry, Kushaiguda, secundrabad	20/12/2023
		IETE, Hyderabad	15/10/2023
		"NRSC- Jeedimetla" in coordination with Mr. V.V. Ganesh, Mr. R. Srinivas, Scientist-SF	29/03/2023
		Dr. A. Ramesh Kumar, Assistant General Manager (CNS), ATC AAI SHAMSHABAD	18/03/2023 and 27/03/2023
		Dr. M. Prameela, Senior Scientist (Plant Pathology), Mushroom Cultivation Scheme, Dept. of Plant Pathology, College of Agriculture, PJTSAU, Rajendranagar, Hyderabad.	17/11/ 2021
		Kwality Photonics	November, 2021
		Dr.Taehyun Oliul Hassan, Research Assistant, Department of Plant Pathology Kyungpook national university Sangju Campus	24/11/ 2020
		Dr. G. Karunakaran, Scientist (Fruit Science) CHES, Indian Institute of Horticultural Research, Hirehalli, Tumkur, Karnataka,	16/11/ 2020
		Dr. Anil Kumar, ARS Scientist, Ph.D. Mycology and Plant Pathology, ICAR- Directorate of Mushroom Research, Chambaghat, Solan, H.P.	9/11/2020
13	B. Sreekanth Reddy	IIITH	17/1/2023 to 29/4/2023
		IIITH	24/10/2022 to 3/12/2022
		IIITH	22/8/2022 to 8/10/2022
		IIITH	13/5/2022 to 20/5/2022
14	M.Lakshmi	We hub, Govt of Telangana	11/10/2021&12/10/2021
15	K. Swathi	IIITH	13/5/2022 to 20/5/2022
16	P. Madhuri	Smart Bridge	7/12/2023
17	N. Harini	UGC Malaviya Mission Teacher Training Centre, JNTUH	16/11/2023 to 30 /11/2023
18	P. Roopa Ranjani	Smart Bridge	7/12/2023
19	V.Shankar	Dr. A. Ramesh Kumar, Assistant General Manager (CNS), ATC AAI SHAMSHABAD	18/03/2023 and 27/03/2023
20	M. Shanthi	UGC Malaviya Mission Teacher Training Centre, JNTUH	16 /12/2023 to 30 /12/2023
		GMR Air Cargo Services Pvt.Ltd	23/3/2023
		IIITH	18/1/2023
21	P. Lavanya	Smart Bridge	7/12/2023
22	Y. Prakash	Smart Bridge	8/1/2024
23	Y. Prakash	Skill Desire	25 /12/2023 to 27 /12/2023
24	Ch. Anusha	GMR Air Cargo Services Pvt.Ltd	23/3/2023
25	G. Krishna Kishore	ISRO, Sriharikota	14/3/24
		"NRSC- Jeedimetla" in coordination with Mr. V.V. Ganesh, Mr. R. Srinivas, Scientist-SF	29/03/2023
		T-Hub, Hyderabad	19/2/2023 to 22 /2/2023
26	Dr.B. Pavani	IITH	19 /01/2024 & 20/01/2024
		Kwality Photonics Industry, Kushaiguda, secundrabad	13/12/2023

Table 5.5.11 Details of Faculty as External Question Paper Setters

S.No	Name of the Faculty	Subject	College	Class &Sem	Date
1	N.Harini	Embedded System Design	Maturi Venkata Subba Rao Engineering College	M.E/ MTech I-Sem	22-02-2024
2	B. Srikanth Reddy	Network Analysis and Synthesis	Maturi Venkata Subba Rao Engineering College	B.E. III Semester (Main & Supple) Examination March 2024	16-2-2024
3	B. Srikanth Reddy	Digital System Design	MGIT, Hyderabad	B. Tech III Sem Regular	8-1-2024
4	C.Sridhar Babu	Digital System Design	MGIT, Hyderabad	B. Tech III Sem supplementary	08-01-2024
5	T.Srilatha	Electronic Devices and Circuits	St.Martins Engineering College,Hyderabad	II B.Tech Sem1 Supplementary	02-01-2024

6	T.Srilatha	Analog Electronics	MGIT, Hyderabad	II B.Tech Sem1 supplementary	01-01-2024
7	M.Vijaya Lakshmi	Optical Communications	Geetanjali College of Engineering and Technology	IV B.Tech Sem1	19-10-2023
8	K.Swathi	Signals and Systems	JNTUH	II B.Tech Sem-1 CBT exam	12-10-2023
9	K.Swathi	Analog Communications	JNTUH	III B.Tech I Sem	11-10-2023
10	T.Srilatha	Microprocessors and Interfacing	JNTUH	II B.Tech I Sem CBT exam	2-11-2023
11	B. Srikanth Reddy	Digital System Design	MGIT, Hyderabad	B.Tech III Sem Regular	27-1-2023
12	T.Srilatha	Electronic Devices and Circuits	St.Martins Engineering College, Hyderabad	II B.Tech Sem1 supplementary	02-01-2023
13	Dr. Swapna Raghunath	AWP	GRIET, Hyderabad	III B.Tech ,Sem-2	8-6-2023
14	Dr.M.Vijaya Lakshmi	Computer Networks	Geetanjali College of Engineering and Technology	B.Tech, VII Sem R18 (Main&Backlog)	11-11-2023
15	P.Sripadma	Control Systems	CBIT, Hyderabad	B.Tech,VI Sem (Main&Backlog)	5-10-2022
16	Dr. Swapna Raghunath	MWE	GRIET, Hyderabad	III B.Tech ,Sem-2	12-5-2022
17	Dr. Swapna Raghunath	EMTL	GRIET, Hyderabad	II B.Tech Sem2	5-6-2022
18	Dr. Swapna Raghunath	ETTL	GRIET, Hyderabad	II B.Tech Sem2	12-2-2021

Table 5.5.12 Details of Faculty who acted as Resource Persons

S.No.	Faculty Name	Status & Title of the Expert Lecture/Talk/ Invited Session/ Key Note Address/ Chief Guest or Guest of Honor/ Name of the Conference/ Seminar/ Workshop/Symposia	Event/ Programme details (with Programme Name, Theme, Organizers, Venue, Duration etc.)	Period	National/ International	Status (Chaired/ Co- chaired/ Le ad Discussant)
1	Dr. C. Padmaja	Image Fusion: Techniques and Applications for Enhanced visual perception	ATAL FDP, GNITS, Hyderabad.	11-12-23 to 16-12-23	National	Resource Person
2	Dr B.Venkateshulu	Delivered a lecture on Decision Processes	AICTE Sponsored STTP on Advances in Wireless Technologies and Telecommunciations in Geethanjali College of Engg& Technology, Cheryal, Keesara Mandal, Medchal district	8/8/2020	National	Resource Person
3		MIMO-OFDM Transceiver and Channel Modelling	Sagar Institute of Science and Technology	8-4-2021 to 10-4-2021	National	Resource person
4		IoT using Arduino Hardware	Sridevi Women's Engineering College	19-7-2021 to 24-7-2021	National	Resource person
5		Particle Swarm Optimization, Differential Evolution	GNITS	22-12-2021 to 29-12-2021	National	Resource person
6	Dr. K. Ragini	Practical Embedded Systems	GNITS	06-02-2023	Intra college	Resource person
7	Dr. P. Chandrasekhar	Practical Embedded Systems	GNITS	06-02-2023	Intra college	Resource person
8	T. Srilatha	Practical Embedded Systems	GNITS	06-02-2023	Intra college	Resource person
9	Ch. Anusha	Practical Embedded Systems	GNITS	07-02-2023	Intra college	Resource person
10	T.Srilatha	Developing Application based on Arduino & Cloud operations	GNITS	8-3-2021	Intra college	Resource person
11	Dr.C.Padmaja	Developing Application based on Arduino & Cloud operations	GNITS	8-3-2021	Intra college	Resource person
12	Ch.Anusha	Developing Application based on Arduino & Cloud operations	GNITS	9-3-2021	Intra college	Resource person

Table 5.5.13 Details of Faculty Membership in Professional Bodies

S.No.	Name of the faculty	Member/Life member	Agency	National/International	Membership number
1	Deepthi Amuru,	Member	IEEE	International	96502756
2	Tulasi Sowjanya B	Member	IEEE	International	96946794
3	Madhuri Latha M	Member	IEEE	International	96352158
4	Dr. PVD Somashekar Rao	Member	IEEE	International	-
5	Dr Renuka Methre	Member	IEEE	International	94151607
6	Dr. C. Padmaja	Member	IEEE	International	96774681
7	A Sujatha Reddy	Member	IEEE	International	95433978
8	Dr G Srivalli	Member	IEEE	International	94031005
9	Dr K Ragini	Life	IEI	National	F-122073-6
10	Dr B Venkateshulu	Life	IEI	National	F-122721-8
11	Dr Srivalli Gundala	Life	IEI	National	F-1238716
12	Dr Renuka Methre	Life	IEI	National	F-12736778
13	Purna Chandra Reddy V	Life	IEI	National	AM-174544-4
14	Dr K Ragini	Member	IETE	National	M 216334
15	Dr B Venkateshulu	Member	IETE	National	M 1776 55
16	Prof Ch Ganapathy Reddy	Fellow	IETE	National	F-149770
17	Dr G Srivalli	Fellow	IETE	National	F -502932
18	Dr C Padmaja	Fellow	IETE	National	F-502931
19	M Lakshmi	Fellow	IETE	National	F-502929
20	Dr M Vijaya Lakshmi	Member	IETE	National	M 177653
21	Dr. PVD Somashekar Rao	Fellow	IETE	National	F-082725
22	Dr Raghunath Swapna	Fellow	IETE	National	F-222219
23	V Radha Krishna	Member	IETE	National	M-181404
24	Y Prakash	Member	IETE	National	M-502938
25	Y Rakesh Kumar	Fellow	IETE	National	F-502138
26	Sarada A	Fellow	IETE	National	F-503916
27	V Uma	Fellow	IETE	National	F-177647
28	Dr. P. Chandrasekhar	Fellow	IETE	National	F-503898
29	M Shanthi	Fellow	IETE	National	F-503999
30	Dr B Venkateshulu	Life Member	ISTE	National	LM-20805
31	Prof Ch Ganapathi Reddy	Life Member	ISTE	National	LM-24770

32	Ch Anusha	Life Member	ISTE	National	LM-124189
33	E V S S Vyshnavi	Life Member	ISTE	National	LM-123922
34	Dr C Padmaja	Life Member	ISTE	National	LM-123287
35	K Swathi	Life Member	ISTE	National	LM-123917
36	M Bhavana	Life Member	ISTE	National	LM-123916
37	Dr M Vijaya Lakshmi	Life Member	ISTE	National	LM-33684
38	P Satyanarayana Goud	Life Member	ISTE	National	LM-95662
39	P Sri Padma	Life Member	ISTE	National	LM-123651
40	Dr. PVD Somashekar Rao	Life Member	ISTE	National	LM-7236
41	V Uma	Life Member	ISTE	National	LM-33680
42	Dr G Srivalli	Life Member	ISTE	National	LM 71091
43	Dr B Venkateshulu	Life	CSI	National	88316
44	Y Rakesh Kumar	Life	INSC	National	Insc20180351
45	Dr G Srivalli	Life	WAMS Wireless, Antennas and Microwave Symposium Society	International	WAMS 3021

Table 5.5.14 Details of Faculty Awards

		2023-24		
S.No.	Name of the faculty	Name of the award	Award Conferred by	Award Date
1	P. Sripadma	NPTEL Discipline Star	SWAYAM-NPTEL	July-Dec 2023
2	Dr. G. Srivalli	Best Paper Award	International Conference on Data Science, Machine Learning and Applications (ICDSMLA-23), GNITS	15 to 16 Dec, 2023
		2022-23		
3	Dr. K. Ragini	Best paper award	ICMACC	30-12-2022
4	Dr. Renuka Devi S M	NPTEL Discipline Star	SWAYAM-NPTEL	JAN-APR 2023
5	V. Radha Krishna	NPTEL Discipline Star	SWAYAM-NPTEL	JAN-APR 2023
6	CH. Anusha	NPTEL Discipline Star	SWAYAM-NPTEL	JAN-APR 2023
		2021-22		
7	Dr. M. Vijayalakshmi	Best Researcher Award	Knowledge Research Academy, Chennai.	24-04- 2022
8	CH. Anusha	Best Women Faculty Award	IJMST Excellence Awards	20-04-2022
9	P. Lavanya	NPTEL Discipline Star	NPTEL Swayam	Jan-April 2022
10	Dr. C. Padmaja	Outstanding Woman Researcher in Wireless Communication	Venus International Foundation	05-03-2022
11	K. Swathi	Young Scholar Award	I2OR on the occasion of National Science Day	28-02 2022
12	Y. Rakesh Kumar	2nd Best IETE student forum (ISF) coordinator Award	IETE	10-10-2021
13	Dr. K. Ragini	Best paper award	CBIT	28-08-2021
		2020-21		
14	Y. RakeshKumar	Best Senior Faculty Award	Novel Research Academy, Kuyavarpalayam Pondicherry, India.	15-01- 2021
15	Dr. C. Padmaja	Best Teacher Award	Society Learning Technologies	5-09-2021
16	Dr. K. Ragini	NPTEL Certification of appreciation award	NPTEL Swayam	Jan-Dec 2020

Table 5.5.15 Details of Faculty Intellectual Property Rights

S. No	Application Title	Faculty Coordinators	Student inventors	Date of publication	Application Number	Status	Website links
1	Smart Parking System With Reservation Using QR Code	1)P. Roopa Ranjani 2)N. Harini 3)Ch. Anusha 4)P. Satyanarayana Goud 5)G. Krishna Kishore 6)V. Purna Chandra Reddy 7)N. Krishna Jyothi 8)V. Radha Krishna 9)Dr. S.Vasundhara 10)N.Hiranmai	-	19/01/2024	202341088578 A	Published	https://www.gnits.ac.in/wp-content/uploads/2024/02/pub_88578.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/02/pub_88578.pdf)
2	Smart Baby Cradle System	1) T. SRILATHA 2) M. Lakshmi 3) G. Madhavi 4)Dr. Swapna Raghunath 5)P. Lavanya 6)C. Sridhar Babu 7)V. Shankar 8)Dr. C. Padmaja 9)M. Shanti 10)D. Niharika	-	19/01/2024	202341088574 A	Published	https://www.gnits.ac.in/wp-content/uploads/2024/02/pub_88574.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/02/pub_88574.pdf)

3	Smart Composting Of Domestic Organic Waste	1)Dr. Swapna Raghunath 2)Dr.K. Ragini 3)Dr. C. Padmaja 4)Dr.P. Chandra Sekhar 5)T. SriLatha 6)P. SriPadma 7)Y. Rakesh Kumar 8)Mr. G Krishna Kishore 9)Mrs.V. Jahnavi	-	19/01/2024	202341088592 A	Published	https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088592-published.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088592-published.pdf)
4	Low-Power and High Speed Full Adder Circuits Using Sub-Threshold Vtmos Logic	1)Dr. K. Ragini 2)Mr. V. Radha Krishna 3)Mr. B. Sreekanth Reddy 4)Mr.V. Shankar 5)Mr. G Krishna Kishore 6)Dr. M. Madhavi Latha 7)Dr. NVSL Narasimham 8)Dr M.Aparna	-	19/01/2024	202341088642 A	Published	https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088642-published.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088642-published.pdf)
5	Audio Source Separation by Non Matrix Factorization	1)Dr. P. Chandrasekhar 2)Dr. K. Ragini 3)Dr. Renuka DeviSM 4)Dr. Swapna Raghunath 5)Mr. Chindam Hari Prasad 6)Mr. B. Sreekanth Reddy 7)Dr. M. Nagasree 8)Mr.M. Venkata Ramana Reddy	-	19/01/2024	202341088771 A	Published	https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088771-published.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/02/202341088771-published.pdf)
6	RFID Enabled Smart Trash Can With Waste Segregation Mechanism for Sustainable Waste Management	Dr. C. Padmaja	B. Shravani	22/12/2023	202341078592	Published	https://www.gnits.ac.in/wp-content/uploads/2023/12/202341078592.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/12/202341078592.pdf)
7	Device And Method for Determining Quality and Flow Control Of Water	1)Dr.B.Venkateshulu 2)B.Rakesh Goud 3)Dr. Renuka Devi Sm	Sai NagaRekha A CH. Harika G. Vedika K. Akshitha I. Sahitya	06/12/2023	201941047644 A	Granted	https://www.gnits.ac.in/wp-content/uploads/2023/12/Patent-Certificate-1.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/12/Patent-Certificate-1.pdf)
8	Organic waste Composter Device	Dr. C. Padmaja	-	26/04/2023	6275308	Granted	https://www.gnits.ac.in/wp-content/uploads/2023/12/UK-116-.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/12/UK-116-.pdf)
9	IoT with Artificial Intelligence based Data Authentication from End-to-End Cyber Security Configuration	Dr. M. Vijaya Lakshmi	-	03/06/2022	202241031186 A	Published	https://www.gnits.ac.in/wp-content/uploads/2023/12/patent1.pdf (https://www.gnits.ac.in/wp-content/

10	An AI Powered Pothole Repairing System	Dr. M. Vijaya Lakshmi	-	02/03/2022	359729-001 (Design number)	Published	uploads/2023/12/patent1.pdf)
11	An Industrial Ground Inspection Robot for Hazardous Environment	Dr. M. Vijaya Lakshmi	-	13/02/2022	358464-001 (Design Number)	Published	
12	AI - Driven Self Adapting Microelectronic Circuits (Granted)	Deepthi Amuru	-	17/06/2021	US 2021/0182466 A1	Granted	https://gnits.ac.in/US20210182466A1.pdf (https://gnits.ac.in/US20210182466A1.pdf)
13	An Artificial Intelligence Enabled Cryptography based Financial Analytical Tool	1)Mr. Rakesh Kumar Y 2)Mr. P.Satyanarayana Goud	-	03/09/2021	202111036657	Published	https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202111036657.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202111036657.pdf)
14	Design of High-Speed Approximate Redundant Binary Multiplier Using 4:2,5:2 &7:2 Compressor	1)Dr. K. Ragini 2)Dr. Swapna Raghunath	Sunkara Yuha Sridevi	05/08/2021	202141035313	Published	https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202141035313.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202141035313.pdf)
15	The THIRD EYE	1)Dr. B. Venkateshulu 2)Dr. Renuka Devi S M 3)T. Srilatha	Ms. Vaishnavi Rudraraju Ms. Nandu Tejaswini Ms. Meghana Pogula	26/03/2021	202141010185 A	Published	https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202141010185-a.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/01/ece_202141010185-a.pdf)
16	Smart Wireless Charging System for IOT Devices in Home Automation (Granted on 31/03/2021)	Dr. C. Padmaja	-	28/01/2021	2021100560	Granted	https://www.gnits.ac.in/wp-content/uploads/2023/12/Australian-Patent-_Grant-Certificate.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/12/Australian-Patent-_Grant-Certificate.pdf)
17	IoT based Proportional-Integral sliding mode direct power control of double FED Induction generator wind turbine.	Dr. C. Padmaja	-	29/01/2021	202141003295 A	Published	https://www.gnits.ac.in/wp-content/uploads/2022/01/freeships-and-institute-level-data-summary-2020-21.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/01/freeships-and-institute-level-data-summary-2020-21.pdf)
18	Non invasive glucose sensing system for diabetes monitoring using saliva	1)Dr. B. Venkateshulu 2) Mr Chandrasekhar 3) B Rakesh Goud	Ms Swathi Pratap Ms Niharika Chikkulla Ms Pravarsha Mogili Ms Kushi Thota	04/09/2020	202041035562 A	Published	https://www.gnits.ac.in/wp-content/uploads/2022/02/202041035562.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/02/202041035562.pdf)

19	A new Pilot Symbol Assisted channel Algorithm using OFDM System with truncation DCT	1. Mr. V. Shankar 2) Mrs K. Swathi	-	21/08/2020	202041032232 A	Published	https://www.gnits.ac.in/wp-content/uploads/2022/02/202041032232.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/02/202041032232.pdf)
20	System and methods for monitoring and forecasting physiological conditions	1)Dr. B. Venkateshulu 2) Mr. B. Rakesh Goud	Sai Naga Rekha Ch. Harika G. Vedika K. Akshitha I. Sahithya	02/08/2019	201941028160 A	Published	https://www.gnits.ac.in/wp-content/uploads/2022/05/201941028160-a.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/05/201941028160-a.pdf)

Table 5.5.16 NPTEL Online Courses completed by the faculty AY: 2023-24

S.No	Faculty Name	Course Name	Course Duration	Certificate Type	Topper
1	Parupalli Sri Padma	Digital Image Processing	Jul-Oct 2023	Elite + Silver	2% Topper
2	N. Krishna Jyothi	Introduction to Internet of Things	Jul-Oct 2023	Elite + Silver	-
3	Ch. Anusha	Cloud Computing	Jul-Oct 2023	Elite	-
4	P. Lavanya	Big Data Computing	Jul-Oct 2023	Elite + Silver	-
5	U. Lakshmi Varuna Kumari	Introduction to Internet of Things	Jul-Oct 2023	Elite + Silver	-
6	Divya Devarajan	Digital Circuits	Jul-Oct 2023	Elite	-
7	B. Sreekanth Reddy	Digital Circuits	Jul-Oct 2023	Top Performing Mentor	-
8	N Krishna Jyothi	System Design Through Verilog	Jul-Oct 2023	Top Performing Mentor	-
9	P. Sri Padma	Electrical Engineering	Jul-Oct 2023	NPTEL DISCIPLINE STAR	-
10	Dr. M. Vijaya Lakshmi	July –Dec 2023 performance	Jul-Oct 2023	Active SPOC	-

Table 5.5.17 NPTEL Online Courses completed by the faculty AY: 2022-23

S.No	Name of the Faculty	Subject	College	Class &Sem	Date
1	Vadde Radha Krishna	Cloud Computing	Jan-Apr 2023	Elite	_
2	Dr Renuka Devi S M	Foundation of Cloud IoT Edge ML	Jan-Apr 2023	Elite + Silver	_
3	Dr Renuka devi S M	Computer Vision and Image Processing - Fundamentals and Applications	Jan-Apr 2023	Elite + Silver	2% Topper
4	G krishna kishore	foundation of cloud IOT edge computing	Jan-Apr 2023	Elite + Silver	_
5	Dr. C. Padmaja	Optimization for Machine Learning: Theory and Implementation	Jan-Apr 2023	Successfully completed	_
6	Dr. C. Padmaja	Foundation of Cloud IoT Edge ML	Jan-Apr 2023	Elite + Silver	_
7	Divya Devarajan	Python for Data Science	Jan-Apr 2023	Elite	_
8	Dr.Renuka Devi S.M	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite + Silver	5% Topper
9	Dr.Renuka Devi S.M	Fundamentals of Artificial Intelligence	Jul-Oct 2022	Elite + Silver	-
10	V. Radha Krishna	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite	-
11	Dr. C. padmaja	Applied Accelarated Artificial intelligence	Jul-Oct 2022	-	-
12	M. Shanthi	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite	-
13	N.Harini	Fundamentals of Artificial Intelligence	Jul-Oct 2022	Elite	-
14	Chilupuri Anusha	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite	-
15	Chilupuri Anusha	The Joy of Computing using Python	Jul-Oct 2022	Elite + Silver	-
16	G. Krishna Kishore	Introduction to Internet of Things	Jul-Oct 2022	Elite	-
17	U. Lakshmi Varuna Kumari	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite	-
18	Divya Devarajan	Introduction To Industry 4.0 And Industrial Internet Of Things	Jul-Oct 2022	Elite	-

Table 5.5.18 NPTEL Online Courses completed by the faculty AY: 2021-22

S.No	Faculty Name	Course Name	Course Duration	Certificate Type	Topper
1	Renuka Devi S.M	Deep Learning	Jan- April 2022	-	-
2	V. Radha Krishna	Introduction to internet of things	Jan- April 2022	-	-
3	Dr. C. Padmaja	Fundamentals of MIMO wireless communication	Jan- March 2022	-	-
4	P. Lavanya	Cloud computing	Jan- April 2022	-	-
5	N. Harini	Fundamentals of Artificial Intelligence	Jul-Oct 2021	Elite+Silver	-
6	P. Sri Padma	Probability Foundation for Electrical Engineers	Jan-Apr2021 (16W)	-	-
7	V. Radha Krishna	Design of Internet of Things	July-Sept 2021	Elite	-
8	G.V.N.S.K.Sravya	Microelectronics: Devices to Circuits	Jul-Oct 2021	-	-
9	Chilupuri Anusha	Fundamentals of Artificial Intelligence	Jul-Oct 2021	-	

Table 5.5.19 NPTEL Online Course completed by the faculty AY: 2020-21

S.No	Faculty Name	Course Name	Course Duration	Certificate Type	Topper
1	P. Lavanya	Introduction to Industry 4.0 and Industrial Internet of Things-converted	Jan-Apr 2021 (12W)	Elite	-
2	P. SriPadma	Probability Foundation for Electrical Engineers	Jan-Apr 2021 (12W)	Successfully completed	-
3	B.Tulasi Sowjanya	Programming, Data Structures and Algorithms using Python	Sep-Nov 2020 (8W)	Elite+Silver	_
4	P. SriPadma	Programming, Data Structures and Algorithms using Python	Sep-Nov 2020 (8W)	Elite	-
5	B. Sreekanth Reddy	Programming, Data Structures and Algorithms using Python	Sep-Nov 2020 (8W)	Elite+Silver	-

6	A.Deepthi	Programming, Data Structures and Algorithms using Python	Sep-Nov 2020 (8W)	Elite+Silver	-
7	V. RadhaKrishna	Fabrication Techniques for MEMs based sensors-Clinical Perspective	Sep-Dec 2020 (12 W)	Elite	-
8	B.Sreekanth Reddy	Python for Data Structures	Sep-Oct 2020 (4W)	Elite+Silver	-
9	B. Sreekanth Reddy	The Joy of Computing using Python	Sep-Dec 2020 (12 W)	Elite+Gold	Topper of 5%
10	A.Deepthi	Regression Analysis	Sep-Dec 2020 (12 W)	Elite+Silver	-

Table 5.5.20 Details of FDP's conducted in the Department

S.No.	Name of the Program	Date	Resource Person	Number of Participants
		2023-24		
1	One week ATAL FDP on "Image infusion -Techniques and Applications Enhanced Visual Perception"	11-12-2023 to 16-12-2023	Dr. V.P.S. Naidu, Senior Principal Scientist, CSIR, Bengaluru Dr. U. S. N. Raju, NITW, Dr. Mohammad Farukh Hashmi, NITW Dr. L. Pratap Reddy, JNTUH, Dr. K. Anitha Sheela, JNTUH Dr. T. Satya Savithri, JNTUH, Dr. S. Surya Narayana, MVSR, Hyderabad, Dr. C. Padmaja, GNITS, Hyderabad Dr. P. Hema Sree,, CVR, Hyderabad, Dr. C. N. Sujatha, SNIST, Hyderabad, N. Venkatesh, Senior Director, Silicon Labs, Hyderabad, Dr. N.S. Murthy, Vasavi College of Engg., Hyderabad	57
2	One week ATAL FDP on "Advancements in Iot driven antenna for satellite Navigation systems"	18-12-2023 to 23-12-2023	Dr Samrat L Sabat, Director R&D, UOH Dr M Lakshmi Narayana, Ex Director, Scientist H, DLRL, Hyderabad Mr I Balakrishna, Scientist SAMEER-CEM Chennai Mr K Sambasiva Rao, Scientist E, RCI, Hyderabad Mr. V Srinivasa Rao, Scientist F, RCI, DRDO, Hyderabad Amit kumar Choudhary, CEO, Pragyatmika Industry, Hyderabad Dr P Srihari Rao, Professor, ECE, NITW Dr SKLV Sai Prakash, Assoc Professor, ECE, NITW Dr M V Raghunadh, Assoc Professor, ECE, NITW Dr G Arun Kumar, Asst Professor, ECE, NITW Dr Gopi Ram, Asst Professor, ECE, NITW Dr A Bharathi, Associate Professor, OU, Hyderabad Mr Devi Prasad Panda, Scientist E, RCI, DRDO, Hyderabad	59
		2022-23		
1	Two Day Faculty Development Program (FDP) on IoT Integration in Engineering: Unlocking Applications with Embedded Systems.	28-06-2023 & 30-06-2023	J. Prem Kumar Ram Kumar.V PVR Tech Hub, Hyd.	25
2	Two-day workshop cum Training on Practical Embedded Systems for non-teaching	6-02-2023 to 7-02-2023	Dr. K. Ragini, Professor, ECE, Dept, GNITS, Hyderabad. Dr. P. Chandrasekhar, AssistantProfessor, ECE Dept, GNITS, Hyderabad. Mrs. T. Sri Latha, Assistant Professor, ECE Dept, GNITS, Hyderabad. Ms. Ch. Anusha, Assistant Professor, ECE Dept, GNITS, Hyderabad.	24
3	FDP on Tanner Design Flow using Mentor Graphics tools	2-09-2022 to 7-09-2022	K.A. Vinnalan Application Engineer Corel technologies	18
		2021-22		
1	AICTE-ISTE Induction/Refresher Program on Optimization in Communication Engineering	22-12-2021 to 29-12-2021	B.Venkat,Director,AICTE Dr.ChellaSastry Dr.S.J.Nanda Dr.Urvashipshukla,BanasthaliVidyapith Dr.P.Ubaidulla,IITH Dr.Jagdish Chand Bansal,South Asian University,New Delhi Prof. RajiBattachary Prof Rajesh Kumar,MNIT Dr.C.Padmaja,GNITS Dr.Balwinder S Dhaliwal,NITTTR,Chandigarh SitanshuSekharSahu,Birla Institute of Technology Mesra,Ranchi Dr. Ravi,NITW Dr.Satish Kumar, Assoc Prof, NIT Jameshedpur Dr. Neeraj Sharma School of BiomedicalEngineering ,IIT BHU Dr.N.S.Murthy Amitav Panda Prof.Vijay D.Vaidya ,Executive Secretary, ISTE	68
2	FDP on Deep Learning and Machine Learning in Biomedical Signal Processing	23-08-2021 to 03-09-2021	Dr.Ravi Kumar,NITW A.B.Ahadit,NITW Santhosh Kumar,BVRIT,HYD Dr.Swagatam Das,ISI,Kolkata Vijay Kumar,NITW	56
		2020-21		

1	FDP on Wearable Devices	01-02-2021 to 05-02-2021	Dr.N.C.Shivprakash,IISC,Bangalore Dr.P.Sudhakar Rao,Professor,Dean R&D, GNITS N.Venkatesh,Senior Dirtector, Engineering at Silicon Labs, Hyderabad Dr.Balwinder Singh, Asst.Prof, NITTTR Dr.Sachin Choudary, IITH Amol Kodag, MEIC CVG Portfolio Dr.Aflab M.Hussian, IIITH,HYD P.Supraja,IIIT HYD Dr.M.MALINI,OU Dr.S.Raghavan, NITT Dr.Bikash Chandra, NIT Patna Dr.N.S.Murthy, Vasavi college, hyd	133
2	International Conference on Robotic Design and applications using wireless sensor networks, IOT& AI ICRDASIA -2020	26-11-2020 to 28-11-2020	Dr.Mohamed Khan AFFFTHAB Ahamed Khan,UCSI University, Malasia Dr.N.C.Shiva Prakash,Professor,IISC, Bangalore	93

Table 5.5.21 Details of National/International Conferences and Faculty Development Programs organized by the faculty members

S.No	Name of the Faculty	Coordinators
1	Dr.K. Ragini	• Acted as a Coordinator for FDP on 'Tanner Design Flow using Mentor Graphics tools' from 2-09-2022 to 7-09-2022 • Value Added Course on 'AI Powered Embedded Systems and IOT' for III B. Tech II Sem students during 2022-23 • Organized Orientation Program for New faculty, by Prof M.L. Sai Kumar, an Eminent Speaker on " Effective Teaching Methodologies" in online mode through Microsoft Teams, on 22-1-22 • Acted as a Coordinator for FDP on Academic Quality Assurance through Outcome based Education" from 8-7-2020 to 18-7-2020 through online mode in Association with E&ICT Academy, NIT Warangal • Acted as a Coordinator for FDP on Wearable Devices from 01-02-2021 to 05-02-2021
2	Dr B Venkateshulu	• Preconference Tutorial Convener for AI & ML Real Time Applications Using Python, Robotics – Innovations to Incubation, GNITS on 16/11/22
3	Dr. Swapna Raghunath	• Preconference Tutorial Coordinator, AI&ML Real Time Applications Using Python, 16-11-2022, GNITS • Preconference Workshop Coordinator, Robotics – Innovations to Incubation, 16-11-2022, GNITS • Acted as an Organizing Committee Member of 6th International Conference on Intelligent Computing and Communication (ICICC-22) on 18th & 19th Nov,2022 • Coordinator of "Intellectual Property Awareness Program" under National Intellectual Property Awareness Mission (NIPAM) on 17-06-2022, sponsored by Intellectual Property Office, India • Coordinated the online training course on 'Basics of Geo computation Technology and Geo web Services' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 13/7/2020 to 24/7/2020. • Coordinated the online training course on 'Geographical Information System' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 28/09/2020 to 15/10/2020. • Coordinated the online training course on 'Geospatial Inputs for Enabling Master Plan Formulation' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 27/7/2020 to 31/7/2020. • Coordinated the online training course on 'Global Navigation Satellite System' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 14/9/2020 to 25/9/2020. • Coordinated the online training course on 'Remote Sensing and Digital Image Analysis' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 17/8/2020 to 11/9/2020. • Coordinated the online training course on 'RS & GIS Applications' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 2/11/2020 to 20/11/2020. • Coordinated the online training course on 'Understanding of Coastal Ocean processes using Remote Sensing and Numerical Modelling' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 21/9/2020 to 25/9/2020. • Coordinated the online training course on 'Remote Sensing Applications in Agricultural Water Management' conducted by Indian Institute of Remote Sensing (ISRO) conducted from 21/9/2020 to 25/9/2020. • Coordinated the online training course on Application of Geoinformatics in Ecological Studies conducted by Indian Institute of Remote Sensing (ISRO) conducted from 19/10/2020 to 29/10/2020.
4	Dr.M.Vijaya Lakshmi	• Acted as a Coordinator for International Conference on Robotic Design and applications using wireless sensor networks, IOT& AI ICRDASIA -2020 from 26-11-2020 to 28-11-2020
5	Dr.Srivalli.G	• Acted as a Coordinator for ATAL-AICTE FDP on 'Advancements in IoT driven antenna for satellite Navigation system's from 18-12-2023 to 23-12-2023
6	N. Krishna Jyothi	• Acted as a Co-coordinator for ATAL-AICTE FDP on 'Advancements in IoT driven antenna for satellite Navigation systems' from 18-12-2023 to 23-12-2023
7	P.Chandra Sekhar	• Acted as a Coordinator for Two-day workshop cum Training on Practical Embedded Systems for non-teaching from 6-02-2023 to 7-02-2023
8	A.Sarada	• Acted as a Coordinator for FDP on 'Deep Learning and Machine Learning in Biomedical Signal Processing' from 23-08-2021 to 03-09-2021
9	Dr.C. Padmaja	• Acted as a Coordinator for ATAL-AICTE FDP on 'Image infusion -Techniques and Applications Enhanced Visual Perception' from 11-12-2023 to 16-12-2023 • Acted as organizing member for Women in Leadership Conclave at GNITS 8th – 9 th March, 2023 • Acted as a Coordinator for AICTE-ISTE Induction/Refresher Program on 'Optimization in Communication Engineering' from 22-12-2021 to 29-12-2021 • Acted as a Co-coordinator for ATAL-AICTE FDP on 'Wearable Devices' from 01-02-2021 to 05-02-2021
10	G. Krishna Kishore	• Acted as a Co-coordinator for ATAL-AICTE FDP on 'Image infusion -Techniques and Applications Enhanced Visual Perception' from 11-12-2023 to 16-12-2023
11	P. Lavanya	• Acted as a Coordinator for Two Day Faculty Development Program (FDP) on IoT Integration in Engineering: Unlocking Applications with Embedded Systems from 28-06-2023 & 30-06-2023
12	M.Bhavana	• Acted as Co-coordinator for ATAL-AICTE FDP on 'Wearable Devices' from 01-02-2021 to 05-02-2021

Table 5.5.22 Details of Various Administrative works handled by the faculty members

S.No	Name of the Faculty	Administrative works
1	Dr.K.Ragini	Coordinating, Guiding, monitoring all the works, as BOS Chairman, Involved in Curriculum Development Projects Review Committee Member, Formation of all student committees from 2023
		Acted as PG coordinator& NBA coordinator, coordinating PG related Projects, Comprehensive Viva, Seminars, R & D proposals and NPTEL/FDP coordinator from 2020 to 2023
2	Dr.B.Venkateshulu	Acted as Dean of Alumnae Relations & Higher Education, Reviewer and Advisor for NBA, NAAC, BOS, NIRF, Reviewing and Submitting R&D proposals, Contributing for the creation of R&D lab establishments from 2023
		Coordinating, Guiding, Monitoring all the works in the department Projects Review committee, formation of all student committees, NBA criteria 2 in charge from 2020 to 2023
3	Prof.Ch.Ganapathi Reddy	Acted as Coordinator for Anti-Ragging Committee at College Level, Assessment &Ranking committee (AAR) Coordinator, Reviewer and Advisor for NBA/NAAC/BOS, NIRF, JNTUH FFC, Checking Course File, In charge of College Student council from 2023
		Acted as Member of Anti Ragging Committee, coordinating mapping of COs with POs, rubrics developed to validate POs, direct, indirect attainment of POs, PSOs, stake holders' involvement in improvement of PEOs & POs. Lab attainments from 2020 to 2023

4	Dr.Renuka Methre	Acted as PG coordinator, Coordinating PG Projects, R & D Co-Coordinator for SEED Grant, IEEE Coordinator (college level), Coordinator for Centre of Excellence, Verifying CO PO and Target Attainment, Identifying Curriculum Gaps and Actions for Improvements, writing proposals to secure funding for research and consultancy, BOS Department coordinator from 2023
		Acted as PG PRC member, Department R &D coordinator, coordinating R & D proposals, IEEE coordinator, BoS department coordinator from 2020 to 2023
5	Dr. Swapna Raghunath	IQAC Coordinator College level, College level IQAC Coordinator, Department R&D Coordinator for R&D Cell, contributing to the creation of Collaborations, and MOU'S, Publishing Technical Magazines (Technical and Non-Technical), NARL Coordinator, NISP Coordinator, IIRS ISRO Coordinator, PALS PMO Executive member from 2023
		NBA coordinator, Time tables Coordinator, coordinating CRC Meetings, Remedial Time tables, lab exam time tables, self-learning, Innovative cell dept coordinator from 2020 to 2023
6	Dr.M.Vijaya Lakshmi	College level FDP & NPTEL coordinator, Department IQAC- AQAR Coordinator, Purchase committee, Supervising and advising Administrative and Academic Audit Responsibilities from 2023
		Acted as Internal Exam In charge, PG PRC member, gate pass permission in charge, purchase committee coordinator from 2020 to 2023
7	V.Uma	Reviewing News Letter, College magazine and Class Room & Lab /Infrastructure Details, In charge for Lab Maintenance, Records, Stock Register, Non-Teaching Staff Profiles, Higher Qualifications, Certification courses and Students Out pass permissions, In charge of Criteria-6 (AAC) from 2023
		Dept coordinator for ISO, AICTE, JNTUH, News Letter, College magazine from 2020 to 2023
8	Dr.G.Srivalli	UG Project Coordinator (ECE-A), Conducting Projects Exhibition, Technical seminars, Writing R&D proposals to secure research funding, Women Protection Coordinator, In charge of Grievance Redressal Committee (GRC), Identification of Curriculum Gaps and Measures from 2023
9	B.Tulasi Sowjanya	Internal Exams Coordinator for All years, Coordinator for Innovations Teaching and Learning Process, Lesson Diary (Student Attendance Register) Assignment, Academic Calendar, Syllabus Book, University Correspondence, Assigning Invigilation Duties, Collecting Mid Question Papers with IQAC, External Question Papers and preparing Exam Plan from 2023
		UG Project coordinator, coordinator for Comprehensive viva and technical seminars, Finance committee coordinator, budget adequacy, Utility, Budget in charge from 2020 to 2023
10	V. Radha Krishna	Coordinator for student Counselling, attendance, Marks UG and PG, Parent Communication, Faculty advisor for IETE, Traditional day and Industrial visits from 2023
		Coordinator for Counselling, attendance, marks UG and PG. result analysis and feedback analysis. Canteen committee coordinator, mentoring system, co-curricular, E-curricular in charge from 2020 to 2023
11	N.Krishna Jyothi	UG Project coordinator (ECE-C), Conducting Technical seminars, Responsible for Student Project Publications, Assisting Budget Preparation and Approval from 2023
		UG Project coordinator, Conducting Technical seminars, Responsible for Student Project Publications, Assisting Budget Preparation and Approval from 2020 to 2023
12	A.Sujatha Reddy	Department NBA coordinator, Department coordinator for Publications, R&D, In charge for all Publication related data, Books Published/Chapters/Resource Person/Awards from 2023
		Department coordinator for Publications, R&D from 2020 to 2023
13	Dr.P Chandra Sekhar	Member of Department R&D committee, Department coordinator for ISTE, Young Engineer Award, Result Analysis of all B.Tech and M.Tech students from 2023
		Dept coordinator for ISTE, Young Engineer Award, IoT lab establishment co-coordinator, Outgoing student's feedback and analysis from 2020 to 2023
14	M.Madhuri Latha	Department coordinator for student data from 2023
		Faculty advisor for IETE and Traditional day, Dept technical magazine, Staff Association and fare well to 4th yr students, coordinated placement & Higher studies from 2020 to 2023
15	P. Sri Padma	Coordinator for Time-Tables, Workload, Minor degree, CRC Meetings, Remedial Time tables, Lab exam time tables, CO-PO Attainments, CO & PO in charge from 2023
		Faculty advisor for ECE association and Thanks giving by students, faculty interaction with outside college from 2020 to 2023
16	A.Sarada	Main Coordinator for collecting Faculty data, Staff Profiles, Appointment Orders, Promotions / Increments, Faculty Professional Membership, Workshops Conducted from 2023
		Coordinated Monthly attendance registers checking, collection of course plans and slip tests, faculty list , publications, R & D, interaction, faculty publications, short term courses from 2020 to 2023
17	Ch.Hari Prasad	Department Student Training & Career Guidance coordinator, Coordinator for ISTE at college level, contributing to the creation of Collaborations, MoUs, Reviewing Internships and Its Impact from 2023
		Acted as ISTE secretary, IoT lab establishment development in charge from 2020 to 2023
18	Y.Rakesh Kumar	Faculty advisor for IETE, Traditional day, Industrial visits and its Impact, Conducting Guest Lectures by Industry Persons, Paper/poster presentations from 2023
		Acted as Team member of ISO, NBA, AICTE, JNTUH, News Letter, NBA criteria 1, 5.1, 5.2, Faculty data in charge, Electives collection from IV B.Tech ,Industrial visits, FSR, faculty data from 2020 to 2023
19	B.Sreekanth Reddy	Department Placement coordinator, Higher Studies, Faculty Ambassador Grad right (College Level), Verifying CO-PO Mapping and Target Attainment, Curriculum Gaps and Actions for Improvements from 2023
		Acted as Time table committee member, CRC Meetings, Remedial Time tables, lab exam time tables, industrial visits, department level IQAC in charge from 2020 to 2023
20	T.Srilatha	In charge for Internal Exams of all years, Preparing Exam Plan, Examiners/Evaluators Panel (Lab/Theory), Collecting Mid Question Papers with IQAC, External Question Papers from 2023
		Co-ordinated Collection of Attendance Registers, mid and lab exam papers, Grievance Redressal coordinator from 2020 to 2023
21	Dr.C.Padmaja	Department R&D Coordinator for IPR, Main Library & Dept library, Working on R&D Projects, Incubation Centre, Incubation and Start-Up, MHRD, Prototype Development and Patenting, IEEE Sensor Chapter councillor, Signal processing Chapter councillor from 2023
		Main Library & Department library coordinator, In charge lab maintenance, Faculty details, service books, salary appointment letters, promotions, awards, certificates, Assistant to Dr.RM in BoS from 2020 to 2023
22	P.Madhuri	Collecting Lesson Plan & Lab Cycles, Lab Manuals, Encouragement for bright and weak students, Content Beyond the syllabus / Case Study, Alumnae Association Treasurer (College Level) from 2023
		Acted as Alumnae Association Secretary, Team member in ISO, student data collection, student paper publications from 2020 to 2023
23	K.Swathi	Coordinator for Time-Tables, CRC Meetings, Remedial Time tables and its impact, lab exam time tables, Department coordinator Alumnae Association, Alumnae Meet-Feedback, Alumnae Awards / Achievements / Contributions, Department Sports coordinator from 2023
		In charge for Maintenance of Electrical, Plumbing and Carpentry Staff Association and Alumnae association department coordinator from 2020 to 2023
24	M.Lakshmi	Department FDP and NPTEL Coordinator, Online Certification Courses/Workshops, In charge for conducting Freshers Day, Department Exam Branch Coordinator for collecting Mid Question Papers with IQAC, External Question Papers, preparing Exam Plan, Collection of MID Answer scripts and Attendance every semester from 2023
		Coordinating Maintenance of all Notice Boards, Flexi board and Staff Register updation & circular file, NPTEL/FDP member, safety measures in charge from 2020 to 2023
25	N. Harini	Member of Department BOS Related work, In charge for PAC DAC Meetings, Maintenance of Electrical, Plumbing and Carpentry, Maintaining data of AICTE/ JNTU Affiliations / Correspondence, AAC, Circulars, Extra-Curricular Activities from 2023
		Member of Department BOS Related work, In charge for PAC DAC Meetings, Maintenance of Electrical, Plumbing and Carpentry, Maintaining data of AICTE/ JNTU Affiliations / Correspondence, AAC, Circulars, Extra-Curricular Activities from 2020 to 2023
26	P. Roopa Ranjani	Coordinator for PG Student data and Publications, Maintenance of all Notice Board, Flexi board and Staff Register updating, Student Attendance, Project works (PRC, Abstracts, Viva Voce), Mini Project with Seminar, Staff Attendance, Press Media and Publicity from 2023
		Acted as Team member of ISO, NBA, AICTE, JNTUH, News Letter. Dept coordinator for Hostel, additional facilities, program specific labs, Computing facility, prog specific facilities, project reports, lab experiments from 2020 to 2023
27	V. Shankar	UG Project coordinator (ECE-B), Conducting Technical seminars, Collecting Outgoing student's feedback and its impact, Selecting Best Projects, Nominal Rolls, Exit survey and Activity survey of students from 2023
		Placement-Dept level coordinator from 2020 to 2023
28	M. Shanthi	IQAC & AAC Co- Coordinator from 2023
		Coordinating Minutes of the Department staff meetings, Internal Exam In charge, Career guidance, Training/placement from 2020 to 2023
29	C. Sridhar Babu	Department Coordinator for Placement activities, Higher Studies, Student appointment letters, Staff Club from 2023
		Coordinating Internal Exam online quiz paper collection, EDC Department coordinator from 2020 to 2023
30	P. Satyanarayana Goud	In charge for conducting Internal Exam, Collecting IQAC, preparing Exam Plan, Examiners / Evaluators Panel (Lab/Theory), Collecting Mid Question Papers with IQAC, External Question Papers, Department coordinator for EDC, Grad Right, CGC from 2023
		Young Engineer Award, NBA criteria 3 & 4 assistant, placement co coordinator from 2020 to 2023
31	P. Lavanya	Providing data for Technical Magazines (Technical and Non-Technical), Collecting Curriculum Stake Holder feedback and its impact, Member of Department staff association, Extra-Curricular Activities from 2023
		Acted as team member ISO, NBA, AICTE, JNTUH, News Letter, NBA criteria 2 and 9 from 2020 to 2023
32	G. Madhavi	Maintaining records of Faculty Publications, Books Published/Chapters/Resource Person/Awards, Coordinator for Time-Table committee, CRC Meetings, Remedial Time tables, lab exam time tables IEEE Department coordinator from 2023
		Coordinating Internal paper quality assessment paper collection, IEEE dept asst. coordinator from 2020 to 2023
33	Y. Prakash	Department Coordinator for Student Training, Career Guidance, Value Added Courses, Maintaining records of M.Tech Marks memos, Syllabus book/regulations, Outgoing student feedback, Nominal rolls, Placements, Internships, CO & PO Mapping and Attainment, Lesson plans and lab cycles, Lab manuals, Open electives, professional electives and audit course from 2023
		NSS dept coordinator, Maintenance of OHPs and/ LCDs from 2020 to 2023

34	Ch. Anusha	Department Coordinator for NSS, Maintenance of data related to R&D, Research proposals Sanctioned, Proposals Submitted, General Stake Holder Feedback and its Impact (Parents, Alumina, Industry, In charge for Minutes of the Dept staff meetings, Collecting details of Student Awards from 2023
		Co-ordinating R&D works, Team member, NBA from 2020 to 2023
35	G. Krishna Kishore	Department coordinator for I-Cell and Website, In charge for Farewell to 4th Years and Fresher's Day from 2023
36	V. Poorna Chandra Reddy	Member of Department R&D committee, collecting details of workshops conducted and attended by Faculty, Financial Support to Faculty (Conferences / Workshops and Professional Body membership) from 2023
37	L Nagaraju	UG Mini project coordinator from 2023
38	Dr B Pavani	UG Mini project coordinator from 2023
39	N. Malathi	UG Mini project coordinator from 2023

5.6 Innovations by the Faculty in Teaching and Learning (10) Total Marks 10.00

Institute Marks : 10.00

5.6 Innovations by the Faculty in Teaching and Learning (10)

A. Statement of clear goals, use of appropriate methods, significance of results, effective presentation (4)

In the ever-evolving landscape of education, innovative pedagogical methods have become essential for fostering engaging and effective learning experiences. Traditional teaching approaches, while foundational, often fall short in preparing students for the complex challenges of the 21st century. As educators seek to bridge the gap between theoretical knowledge and practical application, a variety of inventive strategies have emerged to transform the educational landscape.

Project-Centred Learning - Emphasize hands-on projects that require students to apply theoretical knowledge to real-world problems. Encourage interdisciplinary projects that involve multiple engineering disciplines.

Flipped Classroom- Flip the traditional lecture model by having students review materials before class and use class time for discussions, problem-solving, and application of concepts.

Guest Lectures from Industry Experts - Bring in professionals and experts from the industry to deliver guest lectures, providing students with insights into current industry practices and challenges.

Viva Voice - Using alternative assessment methods such as viva voce and presentations to assess a broader range of skills.

Learning in pairs - Learning in pairs aids in collaborative or cooperative learning. This contributes to enhanced understanding, improved retention, and the development of essential interpersonal skills.

Case Studies - Learning from case studies is a valuable educational approach that involves analyzing real or hypothetical situations to gain insights into problem-solving, decision-making, and the application of theoretical knowledge to practical scenarios. Case studies offer a rich context for learning and can be employed in various disciplines.

Video Lectures - Learning from video lectures is an effective educational approach that leverages visual and auditory cues to convey information. Video lectures offer flexibility, accessibility, and the ability to cater to diverse learning styles.

Field Trips - Field trips offer unique learning opportunities by taking students out of the traditional classroom setting and immersing them in real-world experiences. Learning from field trips provides numerous benefits that enhance academic understanding and personal development.

The various student centric methods followed by the faculty are classified in Fig. 5.6.1 and The detailed Classification of student centric method is shown in Table 5.6.1

Fig 5.6.1: Student Centric Methods

Classification of Methods:

Table 5.6.1 Detailed Classification of student centric method

Experiential Learning	Participative Learning	Problem Solving
Hackathons	Video	Project Based Learning
Workshops	Demonstration	Real Time Case Studies
Seminars	Activity-Based Learning	Worksheets
Virtual Lab	Jigsaw	Open Book Test
Simulation	Think Pair Share	Proto Type Model
Role Play	Flipped Class Room	Cross Words
Review Web Literature	Plicker	Research Projects
Journal Review	Guest Lecture	Viva
	Professional Practice School	Poster Presentation
	Gd/ Debate	
	Peer Learning Groups	
	Moocs	
	Google Classroom	
	Ppt	
	Kahoot	
	Mind Map	
	Pogil	
	Language Games	
	Public Speaking	

5.6.1 Experiential learning

Faculty implemented some of the experiential learning methodologies to foster hands-on engagement and practical skill development for students in engineering concepts and details are given in Table 5.6.1.1 to Table 5.6.1.5 and sample pictures are given in Fig. 5.6.1.1 to Fig. 5.6.1.8

Table 5.6.1.1 The details of some of student centric method- Experiential Learning followed by faculty

S.No	Student Centric Methods	Student Centric Method Types	Class/Semester/A.Y	Subject	Name of the Faculty	Topic
1.	Experiential learning	Virtual labs	III B.TechISem-23-24	DSPLab	Mrs. A.Sujatha Reddy	Discrete Fourier Transforms
2.	Experiential learning	Seminar	III B.TechIISem-23-24	Bio-Medical Electronics	Mr.Y.Rakesh Kumar	Human physiological systems.

3.	Experiential learning	Journal Discussion	III B.TechIISem-23-24	Bio-Medical Electronics	Mr.Y.Rakesh Kumar	Electroencephalogram.
4.	Experiential learning	Hackathons	III B.TechISem-23-24	Embedded System	Mr.G.krishna kishore	Arduino

Sample Copies of Student Centric Methods:

Fig 5.6.1.1: Students working onDiscrete Fourier Transforms topic usingVirtual Labs.

Fig 5.6.1.2 Student giving seminar on Circulatory system- BME subject

Fig 5.6.1.3: Student are Listening to Journal Review on topic EEG – Title of the manuscript is "Discrete Wavelet Transform Based Selection of Salient EEG Frequency Band for Assessing Human Emotions".

Table 5.6.1.2 Details of different experiential learning with various events to the student organised by faculty in A.Y:2023-24

S.No	Date	Name of the Event	Total no. participants	Objective Of the Event
1	19/08/2023	Current trends in verifying complex chips	156	Updates students on the latest trends in chip verification, expanding their technical knowledge in this specialized field.
2	22/08/2023	Seminar on 'Innovate using Emerging Technologies'	101	Inspires creativity and forward thinking, introducing students to the possibilities of emerging technologies.
3	15/09/2023	Tech-Eco Ganesha: Crafting an Electronic Deity	12 teams	Blends technology with cultural practices, promoting environmental consciousness using electronic devices.
4	6/10/2023	Technical Quiz	71	Challenges students technical knowledge and problem-solving abilities in a competitive environment.
5	11/10/2023	Campus to corporate Journey	60	Guides students in transitioning from academia to the professional world, providing insights into corporate life.
6	18/10/2023	Navigating your Future: Career Opportunities after B.Tech	75	Offers insights into various career paths and opportunities post-B.Tech, helping students make informed decisions.
7	4/11/2023	Mini Project Expo	124	Showcases students practical applications of theoretical knowledge, encourages collaboration and networking.
8	4/11/2023	1-Day Workshop on Drone Technology in Architecture Education	50	Integrates drone technology into architecture education, exposing students to new tools and methodologies.

9	22/11/2023	Seminar on “AI for Engineering Applications”	48	Explores the application of AI in engineering, fostering a deeper understanding of its potential.
10	13/12/2023 20/12/2023,	Industrial visit to kwality photonics/ DoordarshanKendra	106 & 63	Provides experience of real-world industry operations, bridging the gap between theory and practice.

Fig 5.6.1.4.: Seminar on ‘Innovate using Emerging Technologies’

Fig 5.6.1.5: One-Day Workshop on Drone Technology in Architecture Education- working demo

Table 5.6.1.3. Details of different experiential learning with various events to the student organised by faculty inA.Y:2022-23

S.No	Date	Name of the Event	Total no. participants	Objective of the Event
1	18/10/2022	Technical Quiz	168	Enhances students technical knowledge and problem-solving skills through a competitive environment.
2	9/12/2022	Tech Codopuzz	50	Promotes technical awareness and problem-solving skills in a puzzle-solving context.
3	09/02/23	Seminar on Engineering applications with Embedded systems	208	Explores the practical applications of embedded systems in engineering
4	18/03/23 and 27/03/23	Industrial visit to ATC AAI SHAMSHABAD	43 53	Provides a firsthand look at air traffic control systems and airport operations.
5	29/03/23	Industrial visit to NRSC	106	Offers exposure to remote sensing technologies and satellite applications.
6	20/04/23	Industrial visit to Kwality Photonics pvt.Ltd	51	Demonstrates real-world photonics manufacturing processes.
7	21/4/2023	Technical Treasure Hunt	22	Combines technical challenges with problem-solving in a fun and engaging way.

Fig: 5.6.1.6. Industrial visit-an Educational tour to ATC AAI SHAMSHABAD

Table 5.6.1.4. Details of different experiential learning with various events to the student organised by faculty in A.Y:2021-22

S.No	Date	Name of the Event	Total no. Participants	Objective of the Event
1	25/09/2021	Technical Quiz	30	Enhances technical knowledge and problem-solving skills.
2	30/10/2021	Code Debugging challenge	24	Sharpens coding and debugging skills.
3	04/12/2021	Hardware Design Test	100	Strengthens skills in hardware design and implementation.
4	23/10/2021	Mock Interview	40	Prepares students for real-world job interview scenarios.

5	18/12/2021	Paper Presentation	61	Enhances research and presentation skills
6	05/01/2022, 06/01/2022	Industrial visit to Kwality Photonics	100 105	Provides real-world exposure to industrial processes and technology.
7	08/04/2022	Poster Presentation	22	Improves visual communication and presentation skills.
8	21/03/2022	Seminar on IoT and Robotics	173	Expands knowledge in IoT and robotics.

Fig 5.6.1.7. Students group on Poster Presentations event

Table 5.6.1.5. Details of different experiential learning with various events to the student organised by faculty in A.Y:2020-21

S.No	Date	Name of the Event	Total no. Participants	Objective of the Event
1	09/01/2021	Virtual Ideathon	22	Encourages creative thinking and problem-solving in a team setting.

Fig: 5.6.1.8 Student group in Virtual Ideathon event -online

5.6 2. Participative learning

Participative learning methods employed by faculty for students foster active engagement, collaborative problem-solving, and deeper comprehension of complex concepts and details of some of the participative learning are given in Table 5.6.2 and sample images are given in Fig 5.6.2.1 to Fig 5.6.2.4.

Table 5.6.2 The details of some of student centric method- Participative Learning followed by faculty

S.No	Student Centric Methods	Student Centric Method Types	Class/Semester/A.Y	Subject	Name of the Faculty	Topic
1.	Participative learning	Think Pair & Share	IIB.TechISem-23-24	DigitalLogicDesign	Mrs.P. Madhuri	Counters
2.	Participative learning	Video	III B.TechIISem-23-24	Bio-Medical Electronics	Mr.Y.Rakesh Kumar	Electroencephalogram.
3.	Participative learning	MOOCs	IV B.TECH II Sem -22-23	Internet ofThings (IoT)	Mrs.M.Shanthi	IoT Architecture
4.	Participative learning	PPT	IV B.TECH II Sem -21-22	Global Navigation Satellite Systems	Ms.N.Krishna Jyothi	GNSS Receivers
5.	Participative learning	LCS Video class Room	II B.TECH I Sem21-22	Network Theory	Ms.P.Sri Padma	KCL,KVL

Fig 5.6.2.1: Student giving Power Point Presentation on GNSS Receivers

Fig 5.6.2.2: LCS Video Class on Network Theory Subject.

Fig 5.6.2.3: Student giving Power Point Presentation on GNSS Receivers

Fig 5.6.2.4: LCS Video Class on Network Theory Subject.

5.6.3 Problem solving

Engaging in problem solving equips ECE students with the critical thinking skills necessary to navigate complex technical challenges in their field, fostering resilience and innovation under the guidance of experienced faculty. The details of some of the problem solving methods followed are given in Table 5.6.3 and sample pictures are given in Fig 5.6.3.1 to Fig 5.6.3.5.

Table 5.6.3 The details of some of the student centric method- Problem Solving followed by faculty

S.No	Student Centric Methods	Student Centric Method Types	Class/Semester/ A.Y	Subject	Name of the Faculty	Topic
1.	Problem solving	Viva	II B.Tech I Sem-23-24	Python Programming Lab	Mrs. N.Harini	Temperatures to and from Celsius, Fahrenheit.
2.	Problem solving	Viva	IIIB.Tech ISem-23-24	e-CAD & VLSI Lab	Mrs. P.Roopa Ranjani	Finite State Machines
3.	Problem solving	Research	IIIB.Tech IISem-23-24	Bio-Medical Electronics	Mr.Y.Rakesh Kumar	ECG
4.	Problem solving	Field Trip	IV B.TechISem-23-24	Image Processing	Mr.Y.Rakesh Kumar	Image enhancement and object detection
5.	Problem solving	Real Time Case Study	IV B.TECH II Sem -22-23	Internet ofThings	Ms.Ch.Anusha	WorkingoninterfacingLDR, LED, SwitchandUltrasonicSensors
6.	Problem solving	Real Time Case Study	II B.Tech II Sem 22-23	Probability and Stochastic Process	Mrs.B.TulasiSowjanya	Modelling the Evolution of COVID-19 inestimatingnumberofinfectionand impact of pastandfutureintervention measures

Fig 5.6.3.1: Faculty taking Viva Voice in Python Programming Lab.

Fig 5.6.3.2: Student are Listening to Journal Review on topic ECG – Title -Early detection and early treatment of illnesses through regular ECG monitoring.

Field visit to National Remote Sensing Centre – covers DIVP topic "Image enhancement and object detection". Students are encouraged to participate in field visits to observe the real time applications of DIVP subject concepts in National Remote Sensing Centre, Hyderabad. In below figure student is explaining the topic colour fundamentals

Fig 5.6.3.3: Group Photo of student and Faculty at NRSC, Hyderabad as part of field visit.

Fig 5.6.3.4: Real Time Case Study on Internet of Things project

Fig 5.6.3.5: Students presenting a study on “Modelling the Evolution of COVID-19 in estimating number of infection and impact of past and future intervention measures” by Real time Case study

ICT Tools

The ICT tools used by the faculty are summarized in Table 5.6.4 and details of Class Rooms equipped with ICT Tools are given in Table 5.6.5

Table 5.6.4 Details of ICT Tools Usage Summary

Academic Year	No of teachers using ICT	No of Teachers on Roll
2023-24	40	40
2022-23	38	38
2021-22	42	42
2020-21	39	**39**

Table 5.6.5 Class Rooms Equipped with ICT Tools

S.No	Location / Lecture Hall	Class Room/ Seminar Hall	ICT Facilities
1	D-102 (LH-1)	Class Room	LCD Projector
2	D-104(LH-2)	Class Room	LCD Projector
3	D-201(Dept. Seminar hall)	Class Room	Interactive Smart Board
4	D-206 (LH-3)	Class Room	LCD Projector
5	D-301 (LH-4)	Class Room	Interactive Smart Board
6	D-302 (LH-5)	Class Room	LCD Projector
7	D-305 (LH-6)	Class Room	LCD Projector
8	D-401 (M.Tech,DECE)	Class Room	LCD Projector
9	D-403(LH-7)	Class Room	Interactive Smart Board
10	D-406 (LH-8)	Class Room	LCD Projector
11	D-405 (e-Class room)	e- Class Room	Smart Board

B. Availability of work on the Institute Website (2)

The following Screen Shot and website link of E-content for Various Subjects are available to the Students to access any time. Sample copies are shown in the below Fig. 5.6.2 to 5.6.4

Fig: 5.6.2 . Screen shot of E-Content Available for Students.

Web link: https://www.gnits.ac.in/e-content/ (https://www.gnits.ac.in/e-content/)

Fig: 5.6.3. Screen shot of Student Centric Method

Web link: https://www.gnits.ac.in/faculty-innovations-in-t-l/ (https://www.gnits.ac.in/faculty-innovations-in-t-l/)

Fig: 5.6.4. Screen shot of Student Centric Method with Sample Copies

Web link: https://www.gnits.ac.in/faculty-innovations-in-t-l/ (https://www.gnits.ac.in/faculty-innovations-in-t-l/)

C. Availability of work for peer review and critique (2)

All the Contents are available for peer review and critique by the course expert and course coordinator of the respective course and program. Moreover, The Internal Quality Assurance Cell (IQAC) evaluates all innovative practices using tailored rubrics for each practice. Each semester, students offer feedback on every course instructor, rating a set of questionnaires designed to improve the teaching-learning process. These evaluations are also assessed according to IQAC rubrics. Sample screen shorts of the review on faculty course in online platform (Youtube.com) given in Fig: 5.6.5. Sample copy of Student Feed Back on Student Centric Method given in Fig: 5.6.6.

Fig: 5.6.5. YouTube Channel for E-content by faculty Prof. ch. Ganpathy Reddy With Feedback by users.

Web link: https://www.youtube.com/channel/UCtlpYA0fiFqrlag8nKLOPnw (https://www.youtube.com/channel/UCtlpYA0fiFqrlag8nKLOPnw)

Fig: 5.6.6 Sample copy of Student Feed Back on Student Centric Method.

D. Reproducibility and Reusability by other scholars for further Development (2)

Faculty members and research scholars within our ECE department, specializing in the Communications domain, regularly submit/upload their research papers to the arXiv platform. This enables other students, scholars, faculty members from GNITS, and members of the wider community to access and utilize these research papers as samples for their own research endeavours, as illustrated some sample in Fig 5.6.23 and Fig: 5.6.24 show the availability Research Papers Published by Faculty in Various journals as open access in college website

Fig: 5.6.7. Research Paper Uploaded by the ECE Faculty in arXiv Platform.

Fig: 5.6.8 Research Papers Published by Faculty in Various journals is available for open

Web link : https://www.gnits.ac.in/research-paper-publications/#1689830083923-eff318e0-2e5f (https://www.gnits.ac.in/research-paper-publications/#1689830083923-eff318e0-2e5f)

5.7 Faculty as participants in Faculty development/training activities/STTPs (15) Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(CAYm3)
Dr.K.Ragini	3.00	3.00	3.00
Dr.B.Venkateshulu	0.00	0.00	5.00
Dr.P.V.D.Somasekhar Rao	0.00	0.00	0.00
Dr.P. Sudhakar Rao	0.00	0.00	0.00
Dr.Renuka Devi S.M	5.00	5.00	5.00
Dr.R.Swapna	0.00	0.00	5.00
V.Uma	0.00	0.00	5.00
Dr.M.Vijaya Lakshmi	0.00	0.00	5.00
Dr.G.Srivalli	5.00	0.00	0.00
B.Tulasi Sowjanya	3.00	5.00	5.00
V.Radha Krishna	5.00	5.00	5.00
N.Krishna Jyothi	0.00	5.00	0.00
A.Sujatha Reddy	0.00	5.00	0.00
Dr.P.Chandra Sekhar	0.00	3.00	0.00
M.Madhuri Latha	0.00	5.00	0.00
P.Sri Padma	3.00	5.00	5.00
Sarada.A	3.00	5.00	5.00
Ch.Hari Prasad	3.00	5.00	3.00
Y.Rakesh Kumar	0.00	0.00	3.00
B.Sreekanth Reddy	0.00	5.00	5.00
A.Deepthi	0.00	5.00	5.00
T.Srilatha	5.00	5.00	3.00
Dr.C.Padmaja	5.00	5.00	5.00
P.Madhuri	5.00	0.00	3.00
K.Swathi	5.00	5.00	5.00
M.Lakshmi	5.00	5.00	0.00
N.Harini	5.00	5.00	5.00
P.Roopa Ranjani	5.00	5.00	3.00
V.Shankar	5.00	5.00	5.00
M.Shanthi	0.00	3.00	3.00
C.Sridharbabu	5.00	5.00	3.00
P.Satyanarayanagoud	5.00	5.00	3.00

P Lavanya	5.00	5.00	3.00
G Madhavi	5.00	5.00	0.00
Y Prakash	5.00	5.00	5.00
GVNSK Sravya	5.00	5.00	5.00
E.v.s.s. Vyshnavi	0.00	5.00	0.00
M.Bhavana	0.00	5.00	5.00
Ch. Anusha	5.00	5.00	5.00
G.Krishna Kishore	5.00	0.00	0.00
Sum	110.00	144.00	125.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	32.00	32.00	31.00
Assessment [3*(Sum / 0.5RF)]	20.62	27.00	24.19

Average assessment over 3 years: 15.00

5.8 Research and Development (75) Total Marks 55.00

5.8.1 Academic Research (20)

Institute Marks : 20.00

A. Number of quality publications in refered/SCI Journals, citations, Books/Book Chapters etc. (15)

The total number of publications in journals, conference and Book chapters of the faculty during assessment period is shown in Table 5.8.1.1 categorised into SCI, SCOPUS and others. Faculty wise number of publications and citations are given in Table 5.8.1.2.

Table 5.8.1.1 Number of publications in Journals, Conferences and Books/Book Chapters

Academic Year	Journals				Books/Book Chapters/Conference Proceedings				Total
	SCI/ESCI/ WoS	SCOPUS/ Springer	Others	Total	BOOKS	SCOPUS-Conference	Others	Total	
2023-24	2 (Under Review)	2	44	46	-	6	-	6	52
2022-23	6	9	74	89	70	15	2	87	176
2021-22	2	5	18	25	3	6	-	9	34
2020-21	4	3	7	14	-	19	6	25	39
Total	**12**	**19**	**143**	**174**	**73**	**46**	**8**	**127**	**301**

Table 5.8.1.2 Faculty wise Number of publications (Journals & Conferences) and citations

S.No.	Name of the faculty	Research Publications During Assessment Period (2020-21 to till date)	Total Citations
1	Dr.K. Ragini	14	90
2	Dr.B Venkatesulu	8	12
3	Ch. Ganapathy Reddy	2	72
4	Dr. Renuka Devi S M	13	50
5	Dr. Swapna Raghunath	15	98
6	V. Uma	5	0
7	Dr.M. Vijaya Lakshmi	11	33
8	Dr.G. Srivalli	6	23
9	B. Tulasi Sowjanya	8	0
10	V. Radha Krishna	10	0
11	N. Krishna Jyothi	7	2
12	A. Sujatha Reddy	6	21
13	Dr. P Chandra Sekhar	6	85
14	M. Madhuri Latha	3	9
15	P. Sri Padma	8	3
16	A. Sarada	5	
17	Ch.Hari Prasad	3	0
18	Y.Rakesh Kumar	17	95
19	B.Sreekanth Reddy	4	0
20	T.Srilatha	7	7
21	Dr.C. Padmaja	16	26
22	P.Madhuri	7	5
23	K.Swathi	6	1
24	M.Lakshmi	3	0
25	N. Harini	9	0
26	P.Roopa Ranjani	9	3
27	V.Shankar	7	0
28	M. Shanthi	6	1
29	C.Sridhar Babu	5	0
30	P.Satyanarayana Goud	13	4
31	P. Lavanya	8	0
32	G. Madhavi	6	0
33	Y.Prakash	6	0
34	Ch.Anusha	12	3
35	G.Krishna Kishore	7	0
36	V. Poorna Chandra Reddy	2	21
37	Dr. P. Sai Spandana	1	14
38	L Nagaraju	0	9
39	Dr B Pavani	1	17
40	N. Malathi	0	31
41	A. Deepthi	4	34
42	Dr. .P.V.D.Somasekhar Rao	1	362
43	G.V.N.S.K.Sravya	9	6
44	Dr,P. Sudhakar Rao	1	296
45	E.V.S.S.Vyshnavi	1	2
46	M.Bhavana	1	0

The summary of research articles included in SCI/ESCI Journals, Web of Science Core Collections, and Scopus are given in Table 5.8.1.3. Table 5.8.1.4 furnishes information regarding Web of Science Researcher IDs and Scopus IDs, alongside their respective profile homepage links. Furthermore, Table 5.8.1.5 provides comprehensive details regarding publications featured in Web of Science/SCI/ESCI indexed journals, while Table 5.8.1.6 delineates information on publications showcased in Scopus indexed journals. The Table 5.8.1.7

presents the details of publications that were published in Scopus indexed Conferences.

Table 5.8.1.3 Publications in SCI / WoS / SCOPUS – Academic Year Wise

Journals							Total
S.No	Details	2023-24	2022-23	2021-22	2020-21	Total	
1	SCI/ESCI/WoS	-	6	2	4	12	31
2	Scopus	2	9	5	3	19	
Conferences							46
S.No	Details	2023-24	2022-23	2021-22	2020-21		
1	Scopus	6	15	6	19		
Total							77

Table 5.8.1.4 Faculty wise Orcid ID, Web of Science Researchers ID and Scopus ID's along with home page links.

S.No.	Name of the faculty	Orcid ID	WoS Researcher ID	Web of Science link	Scopus Author ID	Scopus link	Vidwan link
1	Dr.K. Ragini	0000-0002-0803-0496	D-2613-2019	http://webofscience.com/wos/author/record/D-2613-2019 (http://webofscience.com/wos/author/record/D-2613-2019)	58746266300	https://www.scopus.com/authid/detail.uri?authorId=58746266300 (https://www.scopus.com/authid/detail.uri?authorId=58746266300)	https://gnits.irins.org/profile/148960 (https://gnits.irins.org/profile/148960)
2	Dr.B. Venkatesulu	0000-0002-1847-9123	D-2735-2019	https://www.webofscience.com/wos/author/record/D-2735-2019 (https://www.webofscience.com/wos/author/record/D-2735-2019)	55441679300	https://www.scopus.com/authid/detail.uri?authorId=55441679300 (https://www.scopus.com/authid/detail.uri?authorId=55441679300)	https://gnits.irins.org/profile/148908 (https://gnits.irins.org/profile/148908)
3	Ch.Ganapathy Reddy	0000-0001-6587-1702	ACO-3784-2022	https://www.webofscience.com/wos/author/record/2941683 (https://www.webofscience.com/wos/author/record/2941683)	46161163900	https://www.scopus.com/authid/detail.uri?authorId=46161163900 (https://www.scopus.com/authid/detail.uri?authorId=46161163900)	https://gnits.irins.org/profile/148930 (https://gnits.irins.org/profile/148930)
4	Dr.Renuka Devi S M	0000-0003-4604-0908	D-1847-2019	https://www.webofscience.com/wos/author/record/1275259 (https://www.webofscience.com/wos/author/record/1275259)	55552798800 (http://www.scopus.com/authid/detail.url?authorId=55552798800)	https://www.scopus.com/authid/detail.uri?authorId=55435054500 (https://www.scopus.com/authid/detail.uri?authorId=55435054500)	https://gnits.irins.org/profile/149037 (https://gnits.irins.org/profile/149037)
5	Dr. Swapna Raghunath	0000-0003-1735-3526	L-3420-2018	https://www.webofscience.com/wos/author/record/704868	56878757000 (http://www.scopus.com/authid/detail.url?authorId=56878757000)	https://www.scopus.com/authid/detail.uri?authorId=56878757000 (https://www.scopus.com/authid/detail.uri?authorId=56878757000)	https://gnits.irins.org/profile/149031 (https://gnits.irins.org/profile/149031)
6	V.Uma	0000-0001-8014-0262	HMV-8913-2023	https://www.webofscience.com/wos/author/record/HMV-8913-2023 (https://www.webofscience.com/wos/author/record/HMV-8913-2023)	-	-	https://gnits.irins.org/profile/149068 (https://gnits.irins.org/profile/149068)
7	Dr.M. Vijaya Lakshmi	0000-0001-5315-6947 (https://orcid.org/0000-0001-5315-6947)	D-2833-2019	https://www.webofscience.com/wos/author/record/D-2833-2019	57205231913	https://www.scopus.com/authid/detail.uri?authorId=57205231913 (https://www.scopus.com/authid/detail.uri?authorId=57205231913)	https://gnits.irins.org/profile/148997 (https://gnits.irins.org/profile/148997)
8	Dr.G. Srivalli	0000-0002-1374-774X (https://orcid.org/0000-0002-1374-774X)	D-4946-2019	https://www.webofscience.com/wos/author/record/1064860 (https://www.webofscience.com/wos/author/record/1064860)	57217481022	https://www.scopus.com/authid/detail.uri?authorId=57217481022 (https://www.scopus.com/authid/detail.uri?authorId=57217481022)	https://gnits.irins.org/profile/466242 (https://gnits.irins.org/profile/466242)
9	B.Tulasi Sowjanya	0000-0001-6224-1123 (https://orcid.org/0000-0001-6224-1123)	JVO-3393-2024	https://www.webofscience.com/wos/author/record/JVO-3393-2024 (https://www.webofscience.com/wos/author/record/JVO-3393-2024)	57216323096	https://www.scopus.com/authid/detail.uri?authorId=57216323096 (https://www.scopus.com/authid/detail.uri?authorId=57216323096)	https://gnits.irins.org/profile/148917 (https://gnits.irins.org/profile/148917)
10	V. Radha Krishna	0000-0003-4079-5736 (https://orcid.org/0000-0003-4079-5736)	D-2772-2019	https://www.webofscience.com/wos/author/record/298987 (https://www.webofscience.com/wos/author/record/298987)	-	-	https://gnits.irins.org/profile/149077 (https://gnits.irins.org/profile/149077)

11	N.Krishna Jyothi	0000-0002-6476-0952 (https://orcid.org/0000-0002-6476-0952)	HNI-0419-2023	https://www.webofscience.com/wos/author/record/968792 (https://www.webofscience.com/wos/author/record/968792)	57206209719	https://www.scopus.com/authid/detail.uri?authorId=57206209719 (https://www.scopus.com/authid/detail.uri?authorId=57206209719)	https://gnits.irins.org/profile/149003 (https://gnits.irins.org/profile/149003)
12	A.Sujatha Reddy	0000-0003-4625-5765 (https://orcid.org/0000-0003-4625-5765)	D-2611-2019	https://www.webofscience.com/wos/author/record/944110 (https://www.webofscience.com/wos/author/record/944110)	57216455888	https://www.scopus.com/authid/detail.uri?authorId=57216455888 (https://www.scopus.com/authid/detail.uri?authorId=57216455888)	https://gnits.irins.org/profile/148904 (https://gnits.irins.org/profile/148904)
13	Dr.P Chandra Sekhar	0000-0003-3389-4330 (https://orcid.org/0000-0003-3389-4330)	AAE-2633-2021	https://www.webofscience.com/wos/author/record/2201734 (https://www.webofscience.com/wos/author/record/2201734)	57209279424	https://www.scopus.com/authid/detail.uri?authorId=57209279424 (https://www.scopus.com/authid/detail.uri?authorId=57209279424)	https://gnits.irins.org/profile/149012 (https://gnits.irins.org/profile/149012)
14	M.Madhuri Latha	0000-0002-6375-8789 (https://orcid.org/0000-0002-6375-8789)	AAD-8796-2021	https://www.webofscience.com/wos/author/record/AAD-8796-2021 (https://www.webofscience.com/wos/author/record/AAD-8796-2021)	57221321082	https://www.scopus.com/authid/detail.uri?authorId=57221321082 (https://www.scopus.com/authid/detail.uri?authorId=57221321082)	https://gnits.irins.org/profile/148999 (https://gnits.irins.org/profile/148999)
15	P. Sri Padma	0000-0002-1107-6014 (https://orcid.org/0000-0002-1107-6014)	GNH-2271-2022	https://www.webofscience.com/wos/author/record/58810 (https://www.webofscience.com/wos/author/record/58810)	57225045398	https://www.scopus.com/authid/detail.uri?authorId=57225045398 (https://www.scopus.com/authid/detail.uri?authorId=57225045398)	https://gnits.irins.org/profile/149027 (https://gnits.irins.org/profile/149027)
16	Ch.Hari Prasad	0000-0002-5550-288X (https://orcid.org/0000-0002-5550-288X)	D-2751-2019	https://www.webofscience.com/wos/author/record/D-2751-2019 (https://www.webofscience.com/wos/author/record/D-2751-2019)	-	-	https://gnits.irins.org/profile/148931 (https://gnits.irins.org/profile/148931)
17	Y.Rakesh Kumar	0000-0001-5038-1786 (https://orcid.org/0000-0001-5038-1786)	D-3631-2019	https://www.webofscience.com/wos/author/record/1278474 (https://www.webofscience.com/wos/author/record/1278474)	57224670211	https://www.scopus.com/authid/detail.uri?authorId=57224670211 (https://www.scopus.com/authid/detail.uri?authorId=57224670211)	https://gnits.irins.org/profile/149083 (https://gnits.irins.org/profile/149083)
18	B.Sreekanth Reddy	0000-0002-7386-9132	D-2734-2019 (http://www.researcherid.com/rid/D-2734-2019)	https://www.webofscience.com/wos/author/record/1109525 (https://www.webofscience.com/wos/author/record/1109525)	57226608409 (http://www.scopus.com/authid/detail.url?authorId=57226608409)	https://www.scopus.com/authid/detail.uri?authorId=57226608409 (https://www.scopus.com/authid/detail.uri?authorId=57226608409)	https://gnits.irins.org/profile/148916 (https://gnits.irins.org/profile/148916)
19	T.Srilatha	0000-0003-1626-4548	D-2764-2019	https://www.webofscience.com/wos/author/record/D-2764-2019 (https://www.webofscience.com/wos/author/record/D-2764-2019)	-	-	https://gnits.irins.org/profile/149062 (https://gnits.irins.org/profile/149062)
20	Dr.C. Padmaja	0000-0003-0521-916X (https://orcid.org/0000-0003-0521-916X)	D-2555-2019	https://www.webofscience.com/wos/author/record/160438 (https://www.webofscience.com/wos/author/record/160438)	56825865900	https://www.scopus.com/authid/detail.uri?authorId=56825865900 (https://www.scopus.com/authid/detail.uri?authorId=56825865900)	https://gnits.irins.org/profile/148921 (https://gnits.irins.org/profile/148921)
21	P. Madhuri	0000-0002-8852-4727	D-2648-2019	https://www.webofscience.com/wos/author/record/D-2648-2019 (https://www.webofscience.com/wos/author/record/D-2648-2019)	-	-	https://gnits.irins.org/profile/149019 (https://gnits.irins.org/profile/149019)
22	K.Swathi	0000-0002-8360-1624	KEE-7626-2024	https://www.webofscience.com/wos/author/record/KEE-7626-2024 (https://www.webofscience.com/wos/author/record/KEE-7626-2024)	-	-	https://gnits.irins.org/profile/148964 (https://gnits.irins.org/profile/148964)
23	M.Lakshmi	0000-0002-7608-2220 (https://orcid.org/0000-0002-7608-2220)	D-2780-2019	https://www.webofscience.com/wos/author/record/232499 (https://www.webofscience.com/wos/author/record/232499)	-	-	https://gnits.irins.org/profile/148988 (https://gnits.irins.org/profile/148988)
24	N. Harini	0000-0002-0515-2068 (https://orcid.org/0000-0002-0515-2068)	D-2741-2019	https://www.webofscience.com/wos/author/record/720775 (https://www.webofscience.com/wos/author/record/720775)	-	https://www.scopus.com/dashboard.uri?origin=&zone=TopNavBar (https://www.scopus.com/dashboard.uri?origin=&zone=TopNavBar)	https://gnits.irins.org/profile/149001 (https://gnits.irins.org/profile/149001)
25	P. Roopa Ranjani	0000-0003-0085-0155 (https://orcid.org/0000-0003-0085-0155)	ACV-2972-2022	https://www.webofscience.com/wos/author/record/3014305 (https://www.webofscience.com/wos/author/record/3014305)	-	-	https://gnits.irins.org/profile/149038 (https://gnits.irins.org/profile/149038)

26	V.Shankar	0000-0003-3368-8289	D-2775-2019	https://www.webofscience.com/wos/author/record/D-2775-2019 (https://www.webofscience.com/wos/author/record/D-2775-2019)	-	-	https://gnits.irins.org/profile/149072 (https://gnits.irins.org/profile/149072)
27	M. Shanthi	0000-0002-7446-2596 (https://orcid.org/0000-0002-7446-2596)	D-2725-2019	https://www.webofscience.com/wos/author/record/269279 (https://www.webofscience.com/wos/author/record/269279)	-	-	https://gnits.irins.org/profile/148989 (https://gnits.irins.org/profile/148989)
28	C.Sridhar Babu	0000-0002-8768-6521 (https://orcid.org/0000-0002-8768-6521)	D-2749-2019	https://www.webofscience.com/wos/author/record/D-2749-2019 (https://www.webofscience.com/wos/author/record/D-2749-2019)	-	-	https://gnits.irins.org/profile/148923 (https://gnits.irins.org/profile/148923)
29	P.Satyanarayana Goud	0000-0002-1457-8597	D-2607-2019	https://www.webofscience.com/wos/author/record/D-2607-2019 (https://www.webofscience.com/wos/author/record/D-2607-2019)	-	-	https://gnits.irins.org/profile/149025 (https://gnits.irins.org/profile/149025)
30	P. Lavanya	0000-0003-2552-0451 (https://orcid.org/0000-0003-2552-0451)	D-2739-2019	https://www.webofscience.com/wos/author/record/814483 (https://www.webofscience.com/wos/author/record/814483)	-	-	https://gnits.irins.org/profile/149018 (https://gnits.irins.org/profile/149018)
31	G. Madhavi	0000-0002-5527-3810 (https://orcid.org/0000-0002-5527-3810)	D-2847-2019	https://www.webofscience.com/wos/author/record/819071 (https://www.webofscience.com/wos/author/record/819071)	-	-	https://gnits.irins.org/profile/148948 (https://gnits.irins.org/profile/148948)
32	Y.Prakash	0000-0002-6100-4166	HMV-9153-2023	https://www.webofscience.com/wos/author/record/HMV-9153-2023 (https://www.webofscience.com/wos/author/record/HMV-9153-2023)	-	-	https://gnits.irins.org/profile/149082 (https://gnits.irins.org/profile/149082)
33	Ch.Anusha	0000-0002-8965-9834 (https://orcid.org/0000-0002-8965-9834)	D-2519-2019	https://www.webofscience.com/wos/author/record/1295225 (https://www.webofscience.com/wos/author/record/1295225)	57807026300	https://www.scopus.com/authid/detail.uri?authorId=57807026300 (https://www.scopus.com/authid/detail.uri?authorId=57807026300)	https://gnits.irins.org/profile/148928 (https://gnits.irins.org/profile/148928)
34	G.Krishna Kishore	0000-0002-7005-4544	AFZ-4991-2022	https://www.webofscience.com/wos/author/record/AFZ-4991-2022 (https://www.webofscience.com/wos/author/record/AFZ-4991-2022)	-	-	https://gnits.irins.org/profile/415709
35	V. Poorna Chandra Reddy	0000-0003-2600-0677 (https://orcid.org/0000-0003-2600-0677)	KEE-7800-2024	**https://www.webofscience.com/wos/author/record/KEE-7800-2024 (https://www.webofscience.com/wos/author/record/KEE-7800-2024)**	-	-	https://gnits.irins.org/profile/287500 (https://gnits.irins.org/profile/287500)
36	Dr. P. Sai Spandana	0000-0001-5158-1421	HNC-1297-2023	https://www.webofscience.com/wos/author/record/38421511 (https://www.webofscience.com/wos/author/record/38421511)	57561308200	https://www.scopus.com/authid/detail.uri?authorId=57561308200 (https://www.scopus.com/authid/detail.uri?authorId=57561308200)	https://gnits.irins.org/profile/466257 (https://gnits.irins.org/profile/466257)
37	L Nagaraju	0000-0002-9938-7270	AGG-7208-2022	https://www.webofscience.com/wos/author/record/AGG-7208-2022 (https://www.webofscience.com/wos/author/record/AGG-7208-2022)	57431750200	https://www.scopus.com/authid/detail.uri?authorId=57431750200 (https://www.scopus.com/authid/detail.uri?authorId=57431750200)	https://gnits.irins.org/profile/466416 (https://gnits.irins.org/profile/466416)
38	Dr B Pavani	0000-0003-3268-5553 (https://orcid.org/0000-0003-3268-5553)	-	-	57686127800	https://www.scopus.com/authid/detail.uri?authorId=57686127800 (https://www.scopus.com/authid/detail.uri?authorId=57686127800)	https://gnits.irins.org/profile/467755 (https://gnits.irins.org/profile/467755)
39	N. Malathi	0009-0000-1148-4344 (https://orcid.org/0009-0000-1148-4344)	-	-	57222054256	https://www.scopus.com/authid/detail.uri?authorId=57222054256 (https://www.scopus.com/authid/detail.uri?authorId=57222054256)	https://gnits.irins.org/profile/467122 (https://gnits.irins.org/profile/467122)

SCI/ESCI/WoS Indexed Publications

Table 5.8.1.5 Journal Publications during assessment period indexed in SCI/ESCI/WoS

S. No.	Title of paper	Name of the author/s	Name of journal	Vol, Issue, Page no., month, Year	ISSN number	Indexing
1	Performance evaluation of YOLOv2 and modifed YOLOv2 using face mask detection	P. Sri Padma	Multimedia Tools and Applications	Sep-23	1573-7721 1380-7501	SCI

2	A novel Intelligent deep optimized framework for heart disease prediction and classification using ECG signals	P.Satyanarayana Goud	Multimedia Tools and Applications	Sep-23	1573-7721	SCI
3	Hybrid Taguchi-Salp Swarm Optimization Based Energy Efficient MIMO System with Data Reordering and Scheduling Using Battle Royale Optimization Approach for the 5G Technologies	V. Shankar	Wireless personal Communications	30 August 2023 Volume 132, pages 1731–1750	1731-1750	SCI
4	A Novel Intelligent channel estimation strategy for the 5G wireless communication systems	Dr. M. Vijaya Lakshmi	Wireless personal communication	Volume 130, pages 2727–275, April 2023	0929-6212	SCI
5	Turbo Coded MIMO OFDM Estimation Using The Chaotic Grey Wolf Optimizer And Genetic Algorithm	Dr. C. Padmaja	IETE Journal Of Research	Apr-23	0974-780X	SCI
6	An Optimized Deep Networks For Securing 5G Communication System	Dr. M.Vijaya Lakshmi	Cluster Computing	Vol:26, PP 4015–4029, Nov 2022	1573-7543	ESCI
7	A Heuristic Deep feature system for energy management in wireless sensor network	Dr. M.Vijaya Lakshmi	Wireless Networks	Jun-22	1572-8196	ESCI
8	Performance Analysis of a MIMO System with Bursty Traffic in the presence of Energy Harvesting Jammer	Sujatha Allipuram	IEEE Transactions on Green Communications and Networking	Volume: 6, Issue: 2, PP:1157 - 1172, June 2022	2473-2400	SCI
9	Performance Evaluation of Different PSK Schemes in an OFDM System Using a Real Time Image	Parupalli SriPadma	Wireless personal communications	Volume 121, pages 1391–1404, June 2021	1572-834X	SCI
10	Late fusion framework for Acoustic Scene Classification using LPCC, SCMC, and log-Mel band energies with Deep Neural Networks	P.Chandrasekhar	Applied Acoustics	Volume 172, 15 January 2021 (https://www.sciencedirect.com/journal/applied-acoustics/vol/172/suppl/C)	0003-682X	SCI
11	Channel estimation of OFDM system using real coded genetic algorithm	Dr.C.Padmaja	International Journal of Future Generation Communication and Networking	Vol. 13, No. 4, July (2020), pp. 2402–2408	2233-7857	Web of Science
12	Secrecy Performance of an Artificial noise assisted transmission scheme with active eavesdropper	Sujatha Allipuram	IEEE Communications Letters	July 2020	1558-2558	SCI

Scopus Indexed Publications

Table 5.8.1.6 Journal Publications in Scopus indexed during assessment period

S. No.	Title of paper	Name of the author/s	Name of journal	Vol,Issue,Page no.,month,Year	ISSN number	Indexing
1	Implementation of 64-bit Inexact Speculative half unit based Floating point Adder	Dr.K.Ragini	Advances in Intelligent Systems and Computing	PP: 461–468, Sep 2023	2194-5365	Springer
2	Analysis of Serial-in Parallel-out finite field multiplier using various Domino Logic Styles	Dr.K.Ragini	Advances in Intelligent Systems and Computing	PP:241–249, Sep 2023	2194-5365	Springer
3	Dragon Fruit stem Disease Detection using Image Processing	V. Radha Krishna	Advances in Intelligent Systems and Computing	PP:481-490, September 2023	2194-5365	Springer
4	Dragon Fruit stem Disease Detection using Image Processing	Y. Rakesh kumar	Advances in Intelligent Systems and Computing	Sep-23	2194-5365	Springer
5	Image Transmission in Underwater Through Li-Fi	Dr. C. Padmaja	Intelligent Systems and Sustainable Computing, Springer	vol 363, 03 October 2023,	978-981-99-4716-4	Scopus
6	Revolutionizing Vehicle Oversight : Redefining Safety, Monitoring and Reporting Through Advanced Systems	M.Shanthi	International Research Journal of Engineering and Technology	Vol:10, Issue:11, November 2023	2395-0056	scopus
7	A Novel Hybrid Deep Learning System for Cardiovascular Detection and Salient Feature Extraction from ECG Data	P.Satyanarayana Goud	International Journal on Recent and Innovation Trends in Computing and Communication	Sep-23	2321-8169	Scopus
8	Dragon Fruit stem Disease Detection using Image Processing	P.Satyanarayana Goud	Advances in Intelligent Systems and Computing	PP:481-490, September 2023	2194-5365	DBLP

9	Design of 32x32 Reversible Unsigned Multiplier Using Dadda Tree Algorithm	Dr.K.Ragini	The Electrochemical Society Transactions	Volume 107, Number 1	1938-5862	Scopus
10	Diagnosis of Brain Disease through Deep Learning Approaches	Dr.C.Padmaja	Neuro Quantology	Volume 20 Issue 10 Page 1622-1626 · Aug 4, 2022	1303-5150	Springer
11	Relay-Assisted Wireless Energy Harvesting for Multi-hop Clustered IoT Network	B. Pavani	IEEE Journal of Intelligent and Converged Networks	Vol. 4, No. 3, pp. 206-224, June 2023	2708-6240	Scopus
12	Design of digital Comparator with Multiple inputs	V.Radha Krishna	PENSEE Journal	Vol:51,Issue:6,PP:1157-1167, Sep 2021	0031-4773	Scopus
13	Indoor Navigation of Robot Using Ultra-Wideband Indoor Positioning System(IPS)	Dr.Swapna Raghunath	PENSEE International Journal	Vol:51,Issue: 6, PP:1100-1104, Sep 2021	0031-4773	Scopus
14	Customization of UWB Indoor Positioning Module and Web Application Development	Dr.Swapna Raghunath	PENSEE International Journal	Vol:51,Issue: 6, PP:1093-1099, Sep 2021	0031-4773	Scopus
15	Analysis of ECG signals using Frequency and Time domain features with SVM	P.Satyanarayana Goud	Design Engineering	VOL 2021: ISSUE 09 , Dec 2021	0011-9342	Scopus
16	Implementation of Hybrid Precoding for MIMO System using Kalman Approach	Dr.M.Vijaya Lakshmi	International Journal for Research in Applied Science and Engineering Technology	Volume 9 Issue VII PP: 3380-3385, July 2021.	2321-9653	Copernicus
17	Haze-level prior approach to enhance object visibility under atmospheric degradation	Rakesh Kumar Y	Turkish Journal of Electrical Engineering and Computer sciences	Mar-21	2994-1014	Scopus
18	Crosstalk Noise Analysis with RLC Coupled Interconnects in VLSI circuits	Dr.P.Sudhakara Rao	International Journal of Control and Automation	Vol. 13 IssuenNo. 02 July 2020	2005-4297	Elsevier
19	Reconfigurable Corner Truncated Square Microstrip Patch Antennas for Wireless Communication Applications	Dr.P.V.D Somasekhar Rao	IETE Journal of Research	July 2020	0377-2063	Scopus

Table 5.8.1.7 Conference Publications in Scopus indexed during assessment period

Sl. No.	Name of the Faculty	Title of the Paper	Title of the Confrence	Month	Year	ISBN number	Name of the publisher
1	Dr. Renuka Devi S M	A real-time multiple traffic violation detection system using deepSORT	3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES -2023).	December	2023	-	IEEE
2	Dr. C. Padmaja	IoT Enabled Smart Emergency Response System	International Conference on Data Science, Machine Learning & Applications	December	2023	-	Springer
3	N. Krishna Jyothi	Optimizing C-Band Antenna Performance through Integration with Frequency Selective Surfaces:Design and HFSS Analysis	International Conference on Data Science, Machine Learning & Applications	December	2023	-	Springer
4	Dr. Renuka Devi S M	Comparison of COVID-19 Diagnosis by CNN Model and ResNet using Chest X-Ray	International Conference on Sustainable Communication Networks and Application (ICSCNA)	November	2023	-	IEEE
5	Dr. C. Padmaja	Non-Orthogonal Pilot based Channel Estimation in Massive MIMO FDD System	International conference on Intelligent Electronics and Communication Devices (IECOM23)	October	2023	978-93-5406-579-8	IEEE
6	P. Sai Spandana	Specific Absorption Rate Evaluation in Layered Human Head Models using Transparent Conducting Film	8th International Conference on Micro-Electronics, Electromagnetics and Telecommunications	October	2023	-	Scopus
7	M. Madhuri Latha	DoA Estimation using Cascaded Neural Networks and Angle Classification for Coherent Signals	International Symposium on Personal, Indoor and Mobile Radio Communications	September	2023	978-1-6654-6483-3	IEEE & Scopus
8	Dr. Renuka Devi S M	Physical video game	IEEE Sponsored International Conference on Multidisciplinary Research in Technology and Management (MRTM 2023)	September	2023	-	IEEE
9	Dr. K. Ragini	Implementation of 64-bit Inexact Speculative half unit based Floating point Adder	International Conference on Intelligent Computing and Communication (ICICC-22)	August	2023	978-981-99-1588-0_39	Springer
10	Dr. K. Ragini	Analysis of Serial-in Parallel-out finite field multiplier using various Domino Logic Styles	International Conference on Intelligent Computing and Communication (ICICC-22)	August	2023	978-981-99-1588-0_22	Springer

11	P. Satyanarayana Goud	Dragon Fruit stem Disease Detection using Image Processing	International Conference on Intelligent Computing and Communication (ICICC-22)	August	2023	978-981-99-1588-0_41	Springer
12	Y. Rakesh Kumar	Dragon Fruit stem Disease Detection using Image Processing	International Conference on Intelligent Computing and Communication (ICICC-22)	August	2023	978-981-99-1588-0_41	Springer
13	V. Radhakrishna	Dragon Fruit stem Disease Detection using Image Processing	International Conference on Intelligent Computing and Communication (ICICC-22)	August	2023	978-981-99-1588-0_41	Springer
14	Dr. Renuka Devi S M	Piano Note Recognization Using FFT	1st International Conference on Emerging Technologies in Engineering and Science	August	2023	-	Scopus
15	Dr. Renuka Devi S M	An Enhanced Real-Time System for Wrong-Way and Over Speed Violation Detection Using Deep Learning	4th International Conference on Image Processing and Capsule Network	August	2023	978-981-99-7092-6	Scopus
16	Dr. G. Srivalli	A broadband MIMO array with gap coupling for 5G applications	8th IEEE International Symposium on smart electronic systems	December	2022	979-8-3503-9922-6	Scopus
17	B. Tulasi Sowjanya	Bounding the Optimal Length of Pliable Index Coding via a Hypergraph-based Approach	IEEE Information Theory Workshop (ITW)	December	2022	978-1-6654-8341-4	IEEE Scopus
18	Dr. K. Ragini	Design and Implementation of RNB multiplier using NP Domino Logic	International Conference on Recent Trends in Microelectronics, Automation,Computing and Communication Systems (ICMACC-2022)	December	2022	978-1-6654-9604-9	IEEE
19	Dr. K. Ragini	Implementation of Unbaised Rounding for 64-bit Floating Point Adder	International Conference on Recent Trends in Microelectronics, Automation,Computing and Communication Systems (ICMACC-2022)	December	2022	978-1-6654-9604-9	IEEE
20	Y. Rakesh kumar	Mushroom disease detection and classification using machine learning techniques	International conference on Innovations in Engineering and Technology	September	2022	2395-6011	Copernicus
21	Y. Rakesh kumar	Comparative Analysis of Image Segmentation Methods for Mushroom Diseases Detection	International Conference on Soft Computing and Signal Processing (ICSCSP)	July	2022	978-981-19-8669-7_59	Springer
22	Dr. C. Padmaja	Underwater Data transmission through Li-Fi	International Conference on Power of Artificial Intelligence and Machine Learning for Human Empowerment, IETE Chennai centre	May	2022	https://doi.org/10.5281/zenodo.8378647	IETE Scopus
23	A. Deepthi	Fast and efficient ResNN and Genetic optimization for PVT aware performance enhancement in digital circuits	2022 International Symposium on VLSI design, Automation and Test (VLSI-DAT),TAIWAN	May	2022	978-1-6654-0921-6	IEEE Scopus
24	Dr. C. Padmaja	Forecasting of COVID-19 using Hybrid ARIMA-FB Prophet algorithm	5th International Conference on Information and Communication technology for Intelligent Systems	December	2021	978-981-16-4176-3	Springer
25	Ch. Anusha	Performance Analysis of OFDM-IM using DLD	Sixth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2021)	December	2021	978-981-19-0095-2	Springer
26	Dr. B. Venkateshulu	LoRa Based Smart City(Long Range)	International conference on Technologies for Smart Green connected societies 2021	November	2021	DOI 10.1149/10701.15733ecst	Scopus
27	M. Madhuri Latha	Beamformed Energy Detection in the Presence of an Interferer for Cognitive mmWave Network	2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall)	September	2021	978-1-6654-1368-8	IEEE Scopus
28	A. Deepthi	Key based obfuscation of Digital Design for Hardware Security	4th International Conference on soft computing and signal processing(ICSCSP-2021)	June	2021	978-981-16-7087-9	Springer
29	Y. Rakesh kumar	Comparative Analysis on Mulberry Leaf Disease Detection Using SVM and PNN	International Conference on Computational Intelligence in Machine Learning	June	2021	978-981-19-1484-3	Springer

30	P. Satyanarayana Goud	Comparative Analysis on Mulberry Leaf Disease Detection Using SVM and PNN	International Conference on Computational Intelligence in Machine Learning	June	2021	978-981-19-1484-3	Springer
31	V. Shankar	Design of Modified Dual- Coupled Linear Congruential Generator Method Architecture for Pseudorandom Bit Generation	4th International Conference on soft computing and signal processing(ICSCSP-2021)	June	2021	978-981-16-7087-9	Springer
32	Dr. P. V. D. Somasekhar Rao	Effective of Various Parameters on Minimum Mean Square Error and Adaptive Antenna Beamforming LMS Algorithm	6th International Conference in Technology	April	2021	978-1-7281-8877-5	IEEE
33	Dr. Swapna Raghunath	Network Technologies and Microcontrollers in Internet of Things (IoT) – A Review	International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering	April	2021	978-9-53396-0-0	Springer
34	T. Srilatha	Design of Multifunctional Android-based Smart Home Control and Monitoring System using Raspberry Pi	First International Conference on Signal Processing, VLSI, Communications and Embedded Systems (ICSVCE-21)	April	2021	978-0-7354-4165-1	SCOPUS
35	Dr. K. Ragini	Design og High Performance Approximate Redundant Binary Multiplier using 4:2 & 5:2 Compressors	First International Conference on Signal Processing, VLSI, Communications and Embedded Systems (ICSVCE-21)	April	2021	978-0-7354-4165-1	Scopus
36	Dr. Renuka Devi SM	Road surface detection using FMCW 77GHz Automotive RADAR using MFCC	6th International Conference on Inventive Computation Technologies(ICICT-2021)	January	2021	978-1-7281-8502-6	IEEE
37	Dr. Renuka Devi SM	Pothole Detection using YOLOv2 object detection Network and Convolutional Neural Network	International Conference on Computing Engineering and Technology(ICCET-2021)	January	2021	978-981-16-2007-2	Springer
38	Y. Rakesh Kumar	Dehaze Model to Improve object visibility under atmospheric degradation	Proceedings of the 3rd International Conference on Intelligent sustainable systems(ICISS 2020)	December	2020	978-172817089-3	IEEE
39	M. Madhuri Latha	Beamformed Sensing using Dominant DoA in cognitive mm wave Network	IEEE International conference on Advanced Networks and Telecommunications Systems(ANTS-2020) held at Indraprastha Institute of Information Technology	December	2020	978-1-7281-9290-1	IEEE Scopus
40	A. Deepthi	An efficient gradient boosting approach for PVT aware estimation of leakage power and propagation delay in CMOS/FinFET digital cells	Proceedings - IEEE International Symposium on Circuits and Systems	October	2020	978-1-7281-3320-1	Scopus
41	A. Deepthi	ATM: Approximate toom-cook multiplication for speech processing applications	Proceedings - IEEE International Symposium on Circuits and Systems	October	2020	978-1-7281-3320-1	Scopus
42	Dr. Renuka Devi SM	Detection of similar objects and localizing on each using Depth Camera	International Conference on Inventive Research in Computing Applications (ICIRCA 2020)	September	2020	978-1-7281-5374-2	IEEE Scopus
43	Dr. Swapna Raghunath	An Efficient ROTI based Equatorial Plasma Bubble Detector for Low Latitude Regions	3rd International Conference on Soft Computing and Signal Processing (ICSCSP), Malla Reddy College of Engineering and Technology	August	2020	978-981-33-6912-2	Springer
44	G V N S K Sravya	An Efficient ROTI based Equatorial Plasma Bubble Detector for Low Latitude Regions	3rd International Conference on Soft Computing and Signal Processing (ICSCSP), Malla Reddy College of Engineering and Technology, Hyderabad.	August	2020	978-981-33-6912-2	Springer
45	P. Roopa Ranjani	An Efficient ROTI based Equatorial Plasma Bubble Detector for Low Latitude Regions	3rd International Conference on Soft Computing and Signal Processing (ICSCSP), Malla Reddy College of Engineering and Technology	August	2020	978-981-33-6912-2	Springer
46	P. Chandrasekhar	Acoustic Scene Classification using Single Frequency Filtering Cepstral Coefficients and DNN	International Joint Conference on Neural Network(IJCNN-2020)	July	2020	978-1-7281-6926-2	IEEE Scopus

The details of total publications year wise including SCI/SCOPUS/ other research articles, proceedings, book chapters published by the department faculty given in Annexure II.

B. Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)

The department of ECE has 10 faculty members with Doctoral Degrees, 18 faculty members registered and working towards their Ph.D. work in different universities.

The departments faculty members serving as research supervisors across various universities are listed, along with details of the scholars under their guidance, in Table 5.8.1.8. Additionally, Table 5.8.1.9 showcases faculty members who earned Ph.D. degrees during the assessment period, while Table 5.8.1.10 presents Faculty of the department registered for Ph.D. programs at different universities. These tables offer comprehensive insights into the departments academic and research endeavors, highlighting the facultys contributions to scholarly pursuits and academic advancements.

Table 5.8.1.8 List of Faculty members who are guiding Ph.D scholars of various universities.

S. No.	Name of the Guide	Name of the Scholar	University	Year of Ph.D. Registered

1	Dr.B.Venkateshulu	M.Shanthi	KLU, Hyderabad	2021
2	Dr.K.Ragini	P. Roopa Ranjani	KLU, Vijayawada	2020
3	Dr.M.Renuka Devi	N. Harini	KLU, Vijayawada	2020
4	Dr.Swapna Raghunath	T. Srilatha	KLU, Vijayawada	2021
5	Dr. G. Srivalli	GVNSK Sravya	KLU, Vijayawada	2020
6	Dr.P.V.D. Somasekhar Rao	P.Anjaneyulu	JNTUH	2016
7	Dr.P.Sudhakara Rao	Mr.B.Obulesu	JNTUH	2012

Table 5.8.1.9 List of faculty members who got awarded Ph.D. degrees during the assessment period while working in the institute

S. No.	Name of the Faculty	Thesis title	Guide	University	Year of Ph.D. awarded
1	Dr. M. Vijayalakshmi	Multicast Routing protocol for Quality of Service(QoS) improvement in Adhoc Wireless Networks	Dr.D.Sreenivasa Rao,Prof,ECE , Former Director of AAC,JNTUH	JNTUH	2020
2	Dr. C. padmaja	Channel estimation using Turbo code model for 4G OFDM Systems	Dr. B. L. Malleswari	JNTUH	2020
3	Dr. P. Chandrasekhar	Investigation of Features for Acoustic Scene Classification	Dr. Suryakanth V Gangashetty	IIITH	2022
4	Dr. B. Pavani	Optimal Energy Harvesting for Multi-hop Routing in IoT Networks	Prof. L. Nirmala Devi	Osmania University	2023
5	Dr. P. Sai Spandana	Mitigation of SAR in the Human Head against Mobile Radiation with Transparent Shields using Transmission Line Method	Prof. P. V. Y. Jayasree	GITAM deemed to be University, Visakhapatnam	2023

Table 5.8.1.10 List of Faculty who have registered for Ph.D Programme in various university

S.No	Name of the Faculty	Year of Registration	Expected Date of Completion	Research Area	University	Guide Details
1	Purna Chandra Reddy V	2019	31-12-2024	Medical Image Processing	NIT Andhra Pradesh, Tadepalligudem	Dr. Kiran Kumar Gurrala
2	Parupalli Sri Padma	2021-2022	31-05-2028	Biomedical Signal Processing using Adaptive signal processing techniques	JNTUK	Dr.B.LeelaKumari, Assoc.Prof, ECE Dept, JNTUK
3	M. Madhuri Latha	2016	30-04-2025	Signal processing and communications	IIITH	Dr. Sachin Chaudhari
4	N.Harini	2020	08-10-2025	Image with ML	KLU,Vijayawada	Dr.A.S.C.S Sastry
5	Chilupuri Anusha	2021	04-03-2025	Wireless Communications	NIT Warangal	Prof.S. Anuradha
6	Munaganooru Shanthi	2021	31-12-2027	IoT and AI	KLU, Hyderabad campus	Dr Chitreddy Sandeep Reddy
7	P. Satyanarayana Goud	2017	31-12-2024	Signal processing	Osmania	Dr. P. Narahari Sastry
8	G Krishna Kishore	2023	31-12-2027	VLSI Design	Pondicherry university	Dr.VALLI
9	P.Lavanya	2023	01-03-2028	Communication	Osmania University	Dr.M. Shyamsunder, Associate Professor, ECE, UCE(A)
10	Nagaraju L	2019	05-01-2024	Antenna Array Signal Processing	National Institute of Technology Andhra Pradesh	Dr. Puli Kishore Kumar
11	Y Rakesh Kumar	2018	04-06-2024	Digital Image Processing	Osmania University	Dr. V. Chandrasekhar Rao
12	Malathi Naddunoori	2019 June	03-11-2024	Low power VLSI design	Reva University	Dr. M. Devanathan
13	B.Tulasi Sowjanya	2016	30-04-2026	Index coding and private information retrieval	IIIT Hyderabad	Dr.Prasad Krishnan, Asst.Prof, SPCRC
14	P Roopa Ranjani	2020	02-06-2026	Implantable Medical devices	K L University, Hyderabad	Dr.P.Sudharsana Rao
15	N Krishna Jyothi	2019	30-01-2027	Antennas	Klu	M Aravind
16	T Srilatha	2021	05-03-2026	GNSS	KLU , Vijayawada	Dr.M.Ravi Kumar,KLU
17	V Shankar	2013	31-12-2024	Low power VLSL	Osmania university	NSS Reddy, Vasari engg college, Hyderabad
18	A Sujatha Reddy	2017	31-03-2024	Physical layer secrecy	IIT KGP	Dr.Saswat Chakrabarti, Professor Dr.Parthajit Mohapatra,Professor

5.8.2 Sponsored Research (20)

Institute Marks : 5.00

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Mentoring Pedagogy and Te	10 Days	E & ICT NIT Warangal	110000.00
			Total Amount(X): 110000.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Deep Learning and Machin	10 Days	E & ICT NIT Warangal	110000.00
Optimization in Communica	6 Days	AICTE-ISTE	93000.00
0	0	0	0.00
			Total Amount(Y): 203000.00

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Wearable Devices	6 days	AICTE-ATAL	93000.00
Robotics Design and Applic	2 Days	AICTE-AQIS (GOC)	167000.00
Automatic Pothole Detectio	2 Years	JNTUH-TEQIP-III/ MHRD	250000.00
Improving Object Visibility	2 Years	JNTUH-TEQIP-III/ MHRD	255000.00
Digital Communications Lal	2 Years	AICTE-MODROBS	1451000.00
			Total Amount(Z): 2216000.00

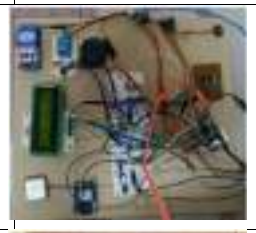
Cumulative Amount(X + Y + Z) = 2529000.00

5.8.3 Development activities (15) Institute Marks : 15.00

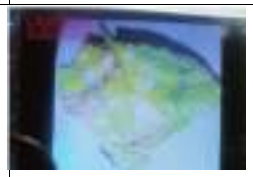
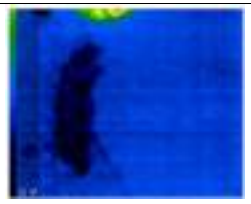
A. Product Development

The ECE department at GNITS emphasizes product development as a crucial aspect of its curriculum. Through hands-on projects and industry collaborations, students are encouraged to design and develop innovative electronic products. The department fosters an environment that nurtures creativity and practical skills, enabling students to apply theoretical knowledge to real-world scenarios. Some of the recent product development initiatives include IoT-based systems, embedded systems, image processing and communication devices. The detailed list of products developed in the ECE Department given in Table 5.8.3.1

Table 5.8.3.1 Detailed list of products developed in the Department

SN0.	Student name	Guide name	Project title	Image
AY- 2020-21				
1	Sudagana Nandini (17251A0425) Shaik Najish Jaha (17251A0422) Mukku Bhavana (17251A0449)	Mrs T SRILATHA	ESP32 Home Automation System with Manual and Voice Control Feedback using IoT	
2	Madupathi Gayathri (17251A0446) Chinmayee G (17251A0436) Ramavath Bindu Madhavi (17251A0418) S Pradeepthi (17251A0426)	Mrs A DEEPTHI	ALZOT: An IoT based health care Assistant for Alzhelmer's Patient	
3	Nandu Tejaswini (17251A0473) Vaishnavi Rudraraju (17251A0488) Pogula Meghana Reddy (17251A04A9)	Dr. Renuka Devi S M	The Third Eye - smart cane using raspberry pi	
4	Redapangu Aksa (17251A0479) Sahithi Gudi (17251A04B3) Samhitha Reddy V (17251A04B4) Neha Cemerla (17251A0474)	Mr. Y. Rakesh Kumar	Smart Technology for Mushroom Cultivation using Arduino	
5	Rapolu Harshitha (17251A04E6) Mettupalli Shalini Reddy (17251A04G7) Sayannagari Sony (17251A04E7) R V S Sri Sudha (17251A04H2)	Mrs. M. Madhuri Latha	Indoor Air Quality Monitoring System **(In collaboration with IIIT-H)**	
AY- 2021-22				
	Siddi Akshitha (18251A0426)	Mrs. P. Sripadma	Face mask detection using	https://www.youtube.com/watch?v=xAcONKRH6qQ (https://www.youtube.com/watch?

1	Diksha Naval (18251A0407) Prathyusha Kasam (18251A0414) Y Supraja (17251A04F0)		Modified YOLO	v=xAcONKRH6qQ)
2	Kuchi L S Rasagjna (18251A0444) Poreddy Pranathi (18251A0452)	Mrs. M. Madhurilata	Energy Efficient IoT based Waste Management System **(In collaboration with IIIT-H)**	https://www.youtube.com/watch?v=dYw609EKj_c (https://www.youtube.com/watch?v=dYw609EKj_c)
3	Aneesha Rao (18251A0486) G. Saraswathi (19255A0411) Y.Madhuri (19255A0412) Shriya reddy (18251A04B9)	Mr.B.Sreekanth Reddy	Fuel and Tyre Pressure Monitoring system for Automobiles	
4	Jyothika (18251A0470) Paidiwar Shivani (18251A0468) Y Sharon Priyanka (18251A04C0) Sreeshma M (18251A04A4)	Mr. P. Chandrasekhar	Authentication of Passport Details using RFID Technology and fingerprint sensor	https://www.youtube.com/watch?v=nwcWYaStNSM (https://www.youtube.com/watch?v=nwcWYaStNSM)
5	Pisupati Sai Valli Shivani (18251A04E1) Mohmad Nadiya begum (19255A0415) Thigireddy Sri Bhavani (18251A04H7) T.Harshitha (18251A04H6)	Mrs.T. Sri Latha	Smart Shoes -Walking Towards a Better Future	https://www.youtube.com/watch?v=uoECaqLpIsw (https://www.youtube.com/watch?v=uoECaqLpIsw)
AY-2022-23				
1	D Bhavana Yadav (19251A0413) Kanuganti Jagruthi (19251A0425) Kaipu Laxmi (19251A0426) Priyanka (19251A0445)	Mr Y. Rakesh Kumar	Animal movement observation using night vision thermal sensor	https://www.youtube.com/watch?v=OCX_9-cHew4 (https://www.youtube.com/watch?v=OCX_9-cHew4)
2	Sai Priya Kamuni (19251A0447) Lekhya Bayya (19251A0433) Lalana Palwaye (19251A0432) Shruthika Keerthi P (19251A0442)	Dr.B.Venkateshulu	Smart Agricultural Security System	https://www.youtube.com/watch?v=Pg-CFeqx8pY (https://www.youtube.com/watch?v=Pg-CFeqx8pY)
3	Baddam Nihalini Reddy (19251A0465) MSN Sowmya Chandana (19251A0492) Thokala Shreya (19251A04B5)	Dr.C.Padmaja	Driver drowsiness monitoring system using visual behaviour and Machine learning	https://www.youtube.com/watch?v=L9ZBsmAmAUg (https://www.youtube.com/watch?v=L9ZBsmAmAUg)
4	Mounika Pamarti (19251A0496) Ameena Juhi (19251A0463) V Meghana (19251A04B7) Tejaswini Gorripotu (19251A0474)	Mrs.K.Swathi	Zigbee Based Wireless Electronic Notice Board	https://www.youtube.com/watch?v=68__MQjgXw0 (https://www.youtube.com/watch?v=68__MQjgXw0)
5	M Charitha (19251A0488) Vemula Siva Shahitha (19251A04C0) Marla Layamadhuri (20255A0412) Dornala Ravisalini (19251A0471)	Dr. Swapna Raghunath	Smart Composting of Domestic Organic Waste	https://www.youtube.com/watch?v=jIQzaD8lSPI (https://www.youtube.com/watch?v=jIQzaD8lSPI)
AY- 2023-24				

1	Aluguri Sri Valli (20251A0401) Maddiveni Sahithi (20251A0422) K Sri Tulasi Gayathri (20251A0442) Kotakonda Bhavana (20251A0419)	Ms. Ch. Anusha	Inventory Management System usig RFID	
2	G Krishna Haneesha (20251A0410) Rapelli Keerthi (20251A0452) Kondoju Jyothsna (20251A0443) Yasarapu Vyshnavi	Dr.B.Venkateshulu	Detection of Quality of Medicinal Leaves	
3	Varsha Kommera (20251A0460) K Sree Kavya (20251A0441) Malasani Sai Joshitha (20251A0423) Risheela Kandunuri (20251A0453)	Ms. M.Lakshmi	IoT surveillance robot with night vision camera	
4	Gangadevi Bhanu Sri (21255A0402) Arushi Sreekumar (20251A0432) Ankam Lakshmi Nikitha (20251A0403) Baddam Shivani (20251A0433)	Dr. Renuka Devi S M	Physical video game	
5	Narri Priyanka (20251A0449) M Mythilee Reddy (20251A0421) Peta Sushma (20251A0424)	Mr. Y.Rakesh Kumar	ML based Rat detection using Thermal Sensors	
6	B. Sampreeti (20251A04C2) K. Viraja (20251A04C7) T. Jhansi (20251A04E8) B. Anjali (20251A04F4)	Dr P. Chandra Sekhar	Smart Coffee Vending Machine	

B. Research laboratories

Research laboratories equipped with advanced instruments and tools to facilitate cutting-edge research in electronics and communication engineering. These laboratories provide students with hands-on experience in conducting experiments, simulations, and analyses. The research facilities cover diverse areas including Wireless Communication, Signal Processing, VLSI Design, Embedded Systems & IoT, and Microwave engineering. Faculty members actively supervise research projects and encourage students to publish their findings in reputed journals and conferences. the list of research centres available in ECE Department is given in table 5.8.3.2.

Table 5.8.3.2 Research Centre & Centre of Excellence

S.No	Name of CoE	Centre Incharge	Faculty Co-ordinators	Collaboration Industry
1	Jagadish Chandra Bose Research Centre (Approved by JNTUH))	Dr. Renuka Devi S.M	Dr M.Vijaya Lakshmi Ms B.Tulasi Sowjanya Ms P.Sripadma Ms.Ch.Anusha Mr. G. Krishna Kishore	Smartbridge Pvt. Ltd
2	Centre of Excellence for Antenna Radiation pattern Analysis	Ms. A. Sujatha Reddy	Dr. B. Venkateshulu Ms. N. Krishna Jyothi Ms. P. Madhuri Ms. K. Swathi Mr. Y. Prakash	Navstar Integrated Systems Pvt. Ltd,
3	Centre of Excellence for Signal Processing and Machine Learning (CSPML)	Dr. P. Chandrasekhar	Dr. C. Padmaja Mr. Y. Rakesh Kumar Mr. P. Sathyanarayana Goud Mr. L. Nagaraju	PVR Tech Hub
4	Centre of Excellence for IoT	Mr. Ch. Hari Prasad	Mr. B. Sreekanth Reddy Ms. T. Srilatha MS. M. Shanthi Dr. B. Pavani	Texas Instruments and Smart Bridge Educational Services Pvt Ltd.

1.JC Bose Research Centre (Approved by JNTUH)

a) Objectives:

• Provide UG and PG students with research facilities, enhancing their practical skills and critical thinking abilities.

• Foster a supportive environment by offering mentorship from experienced faculty in guiding projects and helping them navigate the research process.

• Facilitate the transfer of theoretical knowledge to practical application, allowing students to apply classroom learning in a real-world research setting, promoting a deeper understanding of their field of study.

Some sample photos of JC Bose Research Centre are given in Fig 5.8.3.1 and Fig 5.8.3.2. Details of Infrastructure, activities, Projects Applied & Granted are given in Tables 5.8.3.3 to Tables 5.8.3.6 respectively.

Fig 5.8.3.1 Faculty Coordinators of JC Bose Research Centre

Fig. 5.8.3. 2 Students working on their project in JC Bose Research Centre

b) Infrastructure

Table 5.8.3.3 The infrastructure details of JC Bose Research Centre

S.No.	Name of the Equipment	Quantity
1.	Sensors :PIR, Ultrasonic, DHT11 Sensors, MQ Sensors, ADXLxxx, Flex Sensors, Turbidity Sensors, Pulse Sensors, Proximity Sensors, Dust Sensor, Water Flow Sensor, Speed Sensor, Heart Beat Sensor With ECG, Finger Print Sensor, Color Sensor,RC522 RFID Module, Pulse Sensor, Myoware Muscle Sensor, pH Sensor,TTP223 Touch Sensor, LCD Display, Piezo Electric Sensor Joystick Module, Logi Tech C270 WebCam, USB Mic, Ad8232 Module ECG Sensor , Arduino compatible pulse Sensor, MAX30100 Pulse Oximeter Heart Rate Sensor Module, OLED Display,	–
2	Micro Controllers: Arduino Board, Arduino Mega2560, Node MCU, XIAO SAMD21 Controller(Assembled), WIO Terminals, Raspberry Pi4, Pi cam.	-
3	Lora Smart city framework dragino Lora Shield	1
4	Zuzu Mini Robotic Dog	2
	Outdoor Quad rotor Drone	1
	Pic and Place Robot	2

5	From JNTUH-TEQIP project: Intel Real Sense Depth Cameras D435i & D435	Each -1
	NVDIA Jetson Nano board,	2
	SLAMTEC Slamtec RPLiDAR A2M12 360 Degree Laser Scanner.	1
6	Xilinx Vivado System Edition 2018.1 (25 Users), Nexy's A7	25 users
	FPGA Boards	7 No.s
	Zed Zynq 7000 Arm/FPGA Soc development Board	2
7	Mentor Graphics Back End Tools-HEP-1 Mentor Graphics Front End Tools-HEP-2- (50 Users)	50 users
8	MATLAB 2023 b	Campus Wise

Table 5.8.3.4 Details of the activities under JC Bose Research Centre

Events	Total
Training Programs/Workshops	5
Number of Funded Projects applied under various schemes	7
No. of category of schemes applied	5
Student Projects completed	24
Funded Projects completed	1
Publications/ Conferences	14

d) Details of the Activities

Table 5.8.3.5 Details of the activities conducted under JC Bose Research Centre

Academic Year	No. of Training Programs conducted /attended	No. of Projects	No. of paper publications/ conferences	No. of Faculty Involved	No. of Students Involved
2018-2019	-	3	2	2	12
2019-2020	2	4	2	4	16
2020-2021	1	4	2	6	16
2021-2022	-	5	2	6	20
2022-2023	1	4	3	4	16
2023-2024	1	4	2	4	16

e) Details of Projects Granted & Applied

Table 5.8.3.6 The details of projects granted and applied under JC Bose Research Centre

Academic Year	No. of Funds Granted under various Schemes	No.of Project Proposals Submitted	No. of Faculty Involved in Projects
2019-2020	1	1	2
2020-2021	1	1	2
2021-2022	-	1	2
2022-2023	-	2	2
2023-2024	1	2	4

f) Outcomes

• UG & PG students will develop practical research skills, including experimental design, data collection, analysis, and interpretation, preparing them for future academic and professional endeavours.

• Students will have the chance to contribute to research publications or present their findings at conferences, showcasing their work and gaining valuable experience in academic dissemination.

• Participation in a research lab will foster critical thinking and problem-solving abilities, enabling students to approach complex issues with analytical perspectives and creativity, valuable skills applicable in various academic and professional contexts.

2. Center of Excellence for Antenna Radiation Pattern Analysis

a) Objectives:

• To conduct advanced research in antenna design, radiation patterns, electromagnetic wave propagation, and wireless communication systems.

• To focus on novel antenna designs, MIMO systems, and wireless communication protocols to address emerging challenges.

• To establish partnerships with industry to bridge the gap between academia and real-world applications, fostering innovation and technology transfer.

Some sample photos of center of excellence for the Anteena Radition Pattern Analysis are given in Fig 5.8.3.3 and Fig 5.8.3.4. Details of Infrastructure, activities, Projects Applied & Granted are given in Tables 5.8.3.7 to Tables 5.8.3.10 respectively.

Fig. 5.8.3.3 Training on MIMO Systems

Fig. 5.8.3.4 Students working on HFSS

b) Infrastructure

Table 5.8.3.7 The infrastructure details of Centre of Excellence for Antenna Radiation pattern Analysis

S.No.	Name of the Equipment	Significance/ Utility features	No. of Items
1	SDR MIMO 2x2 NI USRI-2944	USRP-294430MHz–6GHz 160 MHz. The USRP product line offers a wide breadth of SDRs ranging from lower-cost options with fixed FPGA personalities to high-end radios with large, open FPGAs and up to 160 MHz of instantaneous bandwidth.	1
2	MIMO KIT (2X2) with NI lab View 2015 SPI Version	USRP-292050MHz–2.2GHz 20 MHz. NI USRP devices are software defined radios (SDRs) that combine host-based processors, FPGAs, and RF front ends to help you rapidly design, prototype, and deploy wireless systems.	1
3	Vector Network Analyzer (S820E-0714) 1MHz-14GHz	To make students/faculty to apply concepts studied in Antenna & Wave propagation.	1
4	Ansys HFSS Software 17.2 Version	This software tool is used in the field of designing Microwave ranges for the Antennas, Microwave transitions, RF Filters, Three Dimensional Discontinuities and Passive Circuit Elements	25 Users
5	Matlab	2023 b version is available to perform the simulations	Campus Wise
6	Desktops	-	4
7	Server	-	1

c) Activities Under CoE

Table 5.8.3.8 Details of Events organized under Centre of Excellence for Antenna Radiation pattern Analysis

Events	Total
Training Programs/Workshops	3
Funded Projects under various schemes	3
Proposals sent to various schemes	1
Projects	14
Consultancy projects completed	1
Publications/ Conferences	10

d) Details of the Activities

Table 5.8.3.9 Details of activities conducted in Centre of Excellence for Anteena Radiation Pattern Analysis academic year wise

Academic Yea	No. of Training Programs conducted /attended	No. of Projects	No. of paper publications/ conferences	No. of Faculty Involved	No. of Students Involved
2019-2020	1	-	-	9	42
2020-2021	1	1	2	13	14
2021-2022	1	10	1	12	40
2022-2023	-	3	7	7	12

e) Details of Projects Granted & Applied

Table 5.8.3.10 Details of projects granted and applied under Centre of Excellence for Anteena Radiation Pattern Analysis

Academic Year	No. of Funds Granted under various Schemes	No. of Project Proposals Submitted	No. of Faculty Involved in Projects
2019-2020	2	-	9
2023-2024	1	1	2

f) Outcomes:

► Publication of research papers in prestigious journals and presentations at international conferences, contributing to advancements in antenna technology and wireless communication.

► Provide a platform for students, researchers, and industry experts to collaborate, exchange ideas to enhance knowledge in understanding the radiation patterns of and optimizing their performance for various applications.

► Development of prototype systems showcasing innovative antenna designs and wireless communication solution.

3. Center of Excellence for Signal Processing and Machine Learning

The CoE SPML is a dedicated research unit focused on high-quality research in signal processing, machine learning, data science, sensor data analysis, and digital systems using machine learning and data fusion techniques. It serves as a specialized group coordinating advanced research across various aspects of signal processing and artificial intelligence. With a multidisciplinary team, we collaborate with academia, industry, and government to advance AI technologies, undertake impactful projects, and nurture the next generation of AI talent through training programs. Upholding open science principles, we actively share code, datasets, and knowledge with the global community to accelerate progress in signal processing and machine learning.

a) Objectives:

- To develop and implement educational programs to cultivate skills and expertise in signal processing and machine learning for faculty and students.
- To conduct cutting-edge research in speech, image, video, and IoT systems using signal processing and machine learning algorithms by faculty and students.
- To foster strong collaborations with academia, industry, and government for accelerated knowledge exchange and practical solution development.
- To do projects addressing tangible applications, using AI to solve complex challenges across various industries or government agencies.
- To collaborate actively with industry partners to seamlessly integrate research outcomes into practical applications.

Some sample photo of Centre of Excellence for Signal Processing and Machine Learning are given in Fig 5.8.3.5. Details of Infrastructure, activities, Projects Applied & Granted are given in Tables 5.8.3.11 to Tables 5.8.3.13 respectively

Fig. 5.8.3.5 Students and faculty coordinators of Centre of Excellence for Signal Processing and Machine Learning (CoE SPML)

b) Infrastructure

The following are the software and hardware available in the Centre of Excellence for Signal Processing and Machine Learning.

Software's:

Anaconda, Python, Tensor flow, Numpy, Scikit-Image, Librosa, Scipy, PyTorch, Jupyter Notebook, MATLAB.

Hardware:

Zoom H4N Handy Portable Digital Recorder, Fingerprint Recognition and Logitech webcam, Thermal cameras, Zed Zynq 7000-ARM/FPGA SOC development board

c) Activities Under CoE

Table 5.8.3.11 Details of activities organized under CoE for Signal Processing and Machine Learning

Events	*Total*
Training Programs	1
Funded Projects under various schemes	1
Proposals sent to various schemes	9
Projects under this RC	5
Publications/ Conferences	20
Patents	2

d) Details of the Activities

Table 5.8.3.12 Details of activities under CoE for Signal Processing and Machine Learning academic yearwise

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/ conferences	No. of Patents published/ granted	No. of awards received	No. of Faculty Involved	No. of students Involved
2022-23	1	-	5	1	-	3	15
2023-24	-	5	15	1	1	3	45

e) Details of Projects Granted & Applied

Table 5.8.3.13 Details of Projects Granted & Applied for CoE for Signal Processing and Machine Learning

Academic Year	No. of Projects Granted under various Schemes	No. of Projects applied under various Schemes	No. of Faculty Involved in Projects
2022-23	-	1	1
2023-24	1	8	3

f) Outcomes

►Signal Processing and machine learning is much more focused on speech, image, video, visual data, or any other types of data and aims to identify and interpret appropriate sources of information related to real life scenarios.

► Reflect on the relevance of current and future Signal Processing and machine learning applications. Papers and conferences will be published, and projects will be implemented.

4. Centre of Excellence in Internet of Things

This Centre stands as a pivotal hub within our academic institution, that focuses on driving innovation, expertise, and best practices in the field of IoT. The main purpose of establishing an IoT centre of Excellence is to accelerate the development, deployment, and adoption of IoT technologies and solutions. The establishment of this centre aims to enhance students skills, fostering innovation in technology and the creation of commercially valuable smart systems. The IoT centre of Excellence serves as a collaborative platform for students and faculty to engage closely with the industry, maximizing the efficient utilization of resources. The laboratory is equipped with IoT kits valued at Rs.2.47 Lakhs, facilitating the development of various projects in IoT and Embedded systems.

a) Objectives

- Enabling the innovation, research, and deployment of IoT technologies to generate business value.
- Offering training and skill development initiatives for both employees and students to augment their understanding and proficiency in IoT technologies.
- Promoting cross-functional collaboration among teams, departments, and external partners to harness collective expertise in the development, deployment, and maintenance of IoT solutions.

Details of Infrastructure, activities, Projects Applied & Granted for CoE in Internet of Things are given in Tables 5.8.3.14 to Tables 5.8.3.17 respectively

b) Infrastructure

Table 5.8.3.14 Details of infrastructure details of Centre of Excellence Internet of Things

S.No.	Name of the Equipment	Significance/ Utility features	No. of Items
	CoE in IoT		

1	IoT KITS: MSP430G2553 Development Kit, MSP430FR6989 Development Kit, CC110L Booster Pack, Educational BoosterPack MKII, C2000 Delfino MCUs F28377S Launch Pad Development Kit, Motor Drive BoosterPack featuring DRV8301 and NexFET MOSFETs, C2000 LED BoosterPack, Sensor Hub BoosterPack, SimpleLink MSP432P401R Development Kit, SimpleLink Wi-Fi CC3100 Booster pack, Grove starter Kit for launch pad, Simple Link Wi-Fi CC3200 Launchpad, CC2650 Sensor Tag, TM4C129E Crypto Connected IoT Gateway Launch Pad, Fuel Tank MKII Battery Booster Pack Plug-In Module, Thermocouple Booster pack ADS1118	This CoE In IoT houses a range of Texas Instruments LaunchPad kits featuring analog and digital sensors, along with ARM Cortex M0 to ARM Cortex M4 processor cores. These comprehensive kits facilitate the development of a wide spectrum of applications, spanning from straightforward educational projects to sophisticated industrial solutions. They offer versatility in accommodating different analog and digital sensors, enabling the creation of diverse projects suited for educational purposes as well as high-end industrial applications.	36

c) Activities under CoE

Table 5.8.3.15 Details of the activities organized under CoE Internet of Things

Events	Total
Training Programs/Workshops	5
Funded Projects under various schemes	1
Projects	3

d) Details of the Activities

Table 5.8.3.16 Details of activities and programs conducted under CoE Internet of Things

Academic Year	No. of Training Programs conducted /attended	No. of Projects	No. of paper publications/ conferences	No. of Faculty Involved	No. of Students Involved
2018-2019	1	-	-	20	-
2019-2020	1	-	-	11	-
2020-2021	-	1	-	1	1
2021-2022	2	1	-	15	175
2022-2023	1	1	-	06	202

e) Details of Projects Granted & Applied

Table 5.8.3.17 Details of projects granted and applied under CoE Internet of Things

Academic Year	No. of Funds Granted under various Schemes	No. of Project Proposals Submitted	No. of Faculty Involved in Projects
2023-2024	1	1	3

f) Outcomes

► Publication of research papers in renowned journals and conferences, contributing to the advancement of IoT knowledge.

► Successful deployment of IoT solutions addressing critical issues in healthcare, smart cities, agriculture, and industrial automation.

► Recognition as a hub for innovation, attracting funding and partnerships from governmental and private entities

C. Instructional Materials

The Department of ECE places a strong emphasis on developing high-quality instructional materials to support teaching and learning activities. Faculty members prepare comprehensive lecture notes, presentations, and multimedia resources to deliver course content effectively. Additionally, the department curates a repository of reference materials, presentation slides simulation software instructions and online video resources to supplement classroom instruction. The instructional materials are regularly updated to incorporate the latest advancements in the field and cater to the diverse learning needs of students. These materials are essential for supporting the curriculum objectives and ensuring that students receive a well-rounded education that prepares them for the challenges of the field. Instructional materials are provided to the students are as follows

- Content uploading in Youtube by the faculty (Prof. Ch. Ganpathy Reddy on Digital Signal Processing Subject)

  https://www.youtube.com/watch?v=tRP9ey05ywo&list=PLFjNBqQ46lNsdfAsKQX887AN3ErEN-JHz (https://www.youtube.com/watch?v=tRP9ey05ywo&list=PLFjNBqQ46lNsdfAsKQX887AN3ErEN-JHz)

- Lab manuals are prepared for different labs for guiding students and given in Table 5.8.3.18

Table: 5.8.3.18 List of instructional materials (Laboratory Manual) developed by faculty members

Sl No.	Name of the faculty	Instructional Materials (Laboratory Manual)
1	Mrs A.Sujatha Reddy / Mrs A.Sarada	Basic Simulation Lab
2	Mrs P.Sripadma	Electronic Devices and Circuits Lab
3	Mrs A.Sarada	Python Programming Lab
4	Mr V.Shankar	Digital Electronics and Logic Design Lab
5	Mrs V.Uma	Analog Circuits Lab
6	Mrs B.Tulasi Sowjanya	Digital Signal Processing Lab
7	Mr G.Krishna Kishore	e-CAD and VLSI LAB
8	Mrs E.Vyshnavi	Computer Networks Lab
9	Dr Renuka Devi S.M	Electronic Design Lab
10	Dr M.Vijaya Lakshmi	Analog and Digital Communications Lab
11	Dr P.Chandra Shekhar	Microprocessors and Microcontrollers Lab
12	Dr Swapna Raghunath	Microwave Engineering Lab
13	Dr C.Padmaja	Advanced Wireless Communication Lab (PG)
14	Dr P.Chandra Shekhar	ARM Microcontrollers and Programmable Digital Signal Processors Lab (PG)
15	Mrs A.Sujatha Reddy	Advanced Communication Networks Lab (PG)
16	Mr V.Shankar	Digital System Design Lab

• Access to online resources such as e-books, video lectures, academic journals and educational websites relevant to electronic and communication engineering. Table 5.8.3.19 shows List of some of the online video content developed by ECE faculty.

Table 5.8.3.19 List of some of the online video content developed by ECE faculty for the benefit of students to access any time with their login credentials.

S.No	Name of the Course contents Developed	Name of the Faculty	Link
1	Bio-Medical Electronics	Ch Hari Prasad	https://a.impartus.com/ilc/#/course/814099/990 (https://a.impartus.com/ilc/#/course/814099/990)
2	Artificial Intelligence	Dr. Renuka Devi SM	https://a.impartus.com/ilc/#/course/2713391/990 (https://a.impartus.com/ilc/#/course/2713391/990)
3	Digital Image and Video Processing	Y.Rakesh Kumar	https://a.impartus.com/ilc/#/course/2713368/990 (https://a.impartus.com/ilc/#/course/2713368/990)
4	Microprocessors and Microcontrollers	T. Srilatha	https://a.impartus.com/ilc/#/course/814299/990 (https://a.impartus.com/ilc/#/course/814299/990)
5	VLSI Design	Deepthi A	https://a.impartus.com/ilc/#/course/814077/990 (https://a.impartus.com/ilc/#/course/814077/990)
6	Network Theory	P Sripadma	https://a.impartus.com/ilc/#/course/814060/990 (https://a.impartus.com/ilc/#/course/814060/990)
7	Electromagnetic Theory And Transmission Lines	Dr Swapna Raghunath	https://a.impartus.com/ilc/#/course/2165112/990 (https://a.impartus.com/ilc/#/course/2165112/990)
8	Internet of Things	Ch Anusha	https://a.impartus.com/ilc/#/course/814114/990 (https://a.impartus.com/ilc/#/course/814114/990)
9	Information Theory and Coding	A Sujatha Reddy	https://a.impartus.com/ilc/#/course/814082/990 (https://a.impartus.com/ilc/#/course/814082/990)
10	Analog and Digital Communications	Dr. C Padmaja	https://a.impartus.com/ilc/#/course/814071/990 (https://a.impartus.com/ilc/#/course/814071/990)

•Lab protocols have been meticulously prepared for various laboratory settings to provide students with clear guidance on working safely and efficiently with lab equipment and systems, enabling them to bridge theoretical knowledge with practical application. Illustrated in Fig. 5.8.3.6 are protocols and safety rules boards designed for students in the General Hardware Laboratory, while Fig. 5.8.3.7 show cases similar boards tailored for the General Software Laboratory. Additionally, Fig. 5.8.3.8 presents lab-specific protocols for students in the SPC Software Laboratory, and Fig. 5.8.3.9 delineates protocols specific to the MWE Hardware Laboratory. These protocols play a crucial role in fostering a safe and conducive learning environment while facilitating hands-on learning experiences essential for students comprehensive understanding of the curriculum.

Fig. 5.8.3.6. Protocols/Safety rules boards for students in Hardware Laboratory.

Fig. 5.8.3.7. Protocols/Safety rules boards for students in Software Laboratory.

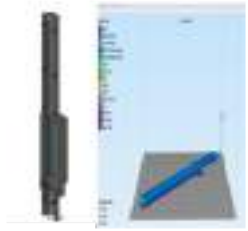
Fig. 5.8.3.8 LAB specific Protocols for students in SPC Software Laboratory.

Fig. 5.8.3.9. LAB specific Protocols for students in MWE Hardware Laboratory.

D. Working models/charts/monograms etc.

To enhance conceptual understanding and practical skills, the department showcases a variety of working models, charts, and monograms related to electronics and communication engineering. These educational aids help students visualize complex concepts, principles, and phenomena. The department encourages students to actively engage with these models during laboratory sessions, workshops, and seminars. Hence, this report incorporates numerous graphics and working models developed in the department, some of which are showcased below.

Table 5.8.3.20 Working Models

S.No	Title	Year	Faculty/Student involved	Details/Specifications	Prototype pictures
1	Smart Technology for Mushroom Cultivation	2020-21	Y Rakesh Kumar, Redapangu Aksa (17251A0479), Sahithi G (17251A04B3), Samhitha Reddy V (17251A04B4) Neha Cemerla (17251A0474)	Smart mushroom cultivation using electronic and IoT Technology Incubator Experiment setup and Results are shown in the Blynk app on mobile. Worked in Collaboration with Dr. M. Prameela, Scientist, Mushroom Cultivation plant pathology Dept. Agriculture University Rajendranagar, Hyderabad.	
2	THE THIRD EYE	2020-21	Dr. B. Venkateshulu Dr. P. Sudhakar Rao Dr. Renuka Devi S. M Dr. C. Padmaja Mrs.T. Sri Latha Ms.Ch. Anusha Mrs.D. Divya N. Tejaswini (17251A0473) Vaishnavi (17251A0488) Meghana Reddy(17251A04A9)	It will improve the physical movement of visually impaired person. It can replace the conventional walking cane with smart walking stick that detects and recognizes obstacle. Secured I Prize with a cash Prize of Rs. 10,000/- in Start Up Pitch (Ideathon) conducted by VNRVJIT Convergence Fest. Patent filed	

3	Automatic Sanitizer Dispenser	2020-21	Dr. B. Venkateshulu Dr. P. Sudhakar Rao Ms.Ch. Anusha Mrs. D. Divya	These dispensers have ultrasonic sensors and the processor used is Arduino nano, that release the sanitiser when you keep your hands under the microsensor.	
4	GNITS Bus Tracking System	2021-22	M. Madhuri Latha, B. Sreekanth Reddy, Shreya Depa (18251A0499), M.S. Likitha	Developed in collaboration with IIIT Hyderabad, the Bus Tracking System has been deployed in all the college buses to give live location updates to the students via the Margah App on their phones.	
5	Pain Management for Bedridden Patient Using Audio-Guided Robotic Arm	2023-24	Mr. Y.Rakesh Kumar Tanusha Meka (20251A0477) Nooka Pallavi (20251A0480) Hema Sreyalahari Karanam (20251A0466)	Audio-Guided Robotic Arm (AGRA) system, designed to revolutionize pain relief treatments. AGRA operates on the unique premise of utilizing audio input for the autonomous localization of specific body parts and the precise application of vibration pads, ultimately enhancing pain management within diverse medical and therapeutic contexts.	
6	Cutting edge mechanism for rescue of child from riskypits	2023-24	Dr.B.Venkateshulu Varsha Kommera (20251A0460) M.Nikitha (21255A0401) Chittaluri Nainitha (20251A0437) G.Bhanu Sri (21255A0402)	A custom-fitted child retrieval mechanism for bore well dimensions includes a gripper-based clutching system and a camera placed beneath the bottom plate, operated by a winch via the top motor shaft.	

Charts:

The faculty developed a comprehensive chart in the lab to streamline and visualize experimental procedures for enhanced understanding and efficiency, some of the charts developed by the faculty are given in Fig. 5.8.3.10 to Fig. Fig. 5.8.3.14.

Fig. 5.8.3.10. Chart of ML based Rat Detection using Thermal Sensor

Fig. 5.8.3.11 Chart on Cross slotted antenna at X band for wireless applications

Fig. 5.8.3.12 Chart on Third eye and Automatic Hand sanitizer Dispenser

Fig. 5.8.3.13 Chart on Non-invasive smart alert for silent heart attack

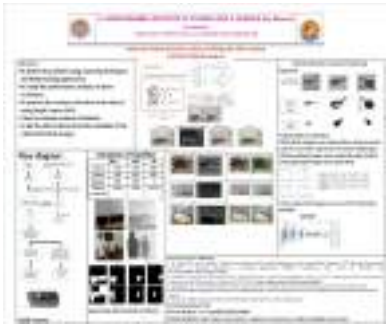


Fig. 5.8.3.14 Chart on automatic pothole detection system and listing GPS locations

5.8.4 Consultancy (from Industry) (20)

Institute Marks : 15.00

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Indoor Position	2 Years	Sri om Enterpri	500000.00
			Total Amount(X): 500000.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Nil	Nil	Nil	0.00
			Total Amount(Y): 0.00

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Design of Dual Circular Pol	6 Months	NAVSTAR INTI	125000.00
JEE-Main	June 2020-Dec	TCS-Ion Digital	111212.00
Online Examination	20/09/2020 to 2	Winc IT Solutio	120000.00
			Total Amount(Z): 356212.00

Cumulative Amount(X + Y + Z) = 856212.00

5.9 Faculty Performance Appraisal and Development System (FPADS) (10) Total Marks 10.00

Institute Marks : 10.00

GNITS implements a well structured format for the Faculty Performance Appraisal and Development Systems. The Proforma for appraisal is provided in the figure below. Faculty members engage in diverse tasks beyond teaching. They innovate, conduct research to foster self-renewal, stay updated on technological advancements, and gain expertise to enhance curriculum implementation. Administrative duties and collaborative work in departmental & college level committees are also considered. A comprehensive performance appraisal system for faculty members is prepared to maximize their individual contributions.

The four categories incorporated in Annual appraisal format is listed below.

Category 1: Teaching, Learning & Evaluation

Category 2: Faculty Development

Category 3: Research & Consultancy

Category 4: Governance & Administration

The proforma for appraisal is attached below

G.Narayanamma Institute of Technology & Science

(for Women)

Faculty Annual Performance Appraisal

PART – I

PART-II

S.No.	Title of the Project	Funding Agency	Amount	Whether Principal Investigator or co-investigator	Status (Completed/ongoing)	Score
1						
2						

S.No.	Type of Consultancy	Sponsored Organization	Amount	Score
1				
2				

S.No.	Patent Published / Applied	Date of Publication / Applied	Score
1			
2			

Category 4: Governance & Administration **10**

S.No.	Name of the Administrative Position	Duration/Period	Remark	Score
1				
2				

S.No.	Position Held and/or Activities performed/ Conducted	Duration	Score
1			
2			
3			
4			

S.No.	Name of Placement	No. of students Completed	Remark	Score
1				
2				

Any other information

Date:

Signature of the Faculty

PART-III

S.No.	Criterion	Max Score	Self Appraisal Assessment Score	HOD Assessment Score
1	Teaching, Learning & Evaluation	50		
2	Faculty Development	25		
3	Research & Consultancy	40		
4	Governance & Administration	10		
	Total	125		

PART-IV

(To be filled by Administrative Personnel, engaged in PG Programs & Management)

S.No.	Name of Grade	No. of Students rated	Min. of Grade Secured by Student
1	Outstanding		
2	Excellent Grade		
3	Very Good Grade		
4	Academic Grade		
5	FAIL		
6	FAIL		
7	Detained Grade		
8	Absentee		

9 Subjects all clear & Secured Grade appearing in the exams Yes

10 Subjects all clear & Secured only passing from the Institution Yes

Admin. Asst. Admin. Officer

(a) Grade as Pass			
(b) Academic Grade			
(c) Research, NCP			
(d) Research (1 & 2)			
(e) Other Grade			

Admin. Officer Sign

Assessment by Head of the Department

S.No.	Performance Evaluation (Criteria)	Outstanding	Above Excellent	Above Satisfactory	Above Unsatisfactory	Unsatisfactory
		5	4	3	2	1
1	Attitude					
2	Job Knowledge					
3	Interpersonal Relationship					
4	Responsibility					
5	Communication Skills					
6	Leadership Qualities					
7	Work quality standards					
8	Punctuality					
9	Communication skills					
10	Effective Problem Solving skills					
	Sub Total					
	Overall Final Score out of 50					

Remarks on the overall Performance Evaluation

Faculty Performance Appraisal and Development System (FPADS) implementation and effectiveness

The Institution has a formal “Annual Performance Appraisal” for Teaching faculty conducted every year. The faculty are required to submit the filled in pro forma of self-appraisal which is based on “Performance Based Appraisal System” as per UGC regulation 2010 and 2016. The strengths, weakness and future plans are analysed and then increments are released. This system helps the faculty in setting up new goals and self-assesses their strengths and weaknesses. Based on the Annual appraisal the faculty is given increments, and this becomes one of the parameters in giving promotions in their respective cadre.

The institute HR policy clearly outlines the proforma for faculty self-appraisal reports. This document encompasses academic, research, curricular, governance and administration contributions made by the faculty throughout the academic year. Faculty members are required to complete the Proforma and submit it to their respective department.

The faculty submits self-appraisal reports for the academic year which is evaluated by the head of the department. The **Key Performance Indicators (KPI)** of the self-appraisal are mentioned below:

- Faculty performance appraisal focuses on teaching, research, and administrative duties. Institution aim for a systematic assessment aligned with the institutional quality system.Before the start of each academic semester, the Academic calendar is distributed.
- All the faculty are expected to use Pedagogical methods and ICT tools for teaching learning.
- The faculty should adhere to the academic calendar and it is assessed by two Class Review Committee (CRC) meetings conducted per semester to gather student feedback, facilitating ongoing improvement in the teaching-learning process.
- All faculties perform Examination and Evaluation duties assigned by the institute/university or attending the examination paper evaluation.
- Faculty development is promoted through attendance at FDP sessions focusing on emerging areas to update knowledge in line with the latest technology.
- Faculty are encouraged to organize seminars, conferences, workshops, and Faculty Development Programs (FDPs) to enhance professional development, foster collaboration, continual learning process and promote knowledge dissemination within the academic community.
- Faculty engage in research, consultancy, and faculty development activities, including conducting minor or major research projects. These efforts result in the development of projects, apps, products, or prototype models aimed at helping society or communities. Additionally, faculty are expected to publish at least one paper in peer-reviewed or UGC-listed journals or present their work in international conferences.
- Faculty hold administrative positions such as Dean, Head, Coordinator, etc. They also serve as committee members for various student-related co-curricular, extension, and field-based activities, including student clubs, career counselling, industrial visits, seminars, cultural events, sports, NCC, NSS, and community services.

The engagement of faculty in all these activities is assessed, and accordingly, faculty members are given appraisals.

Implementation

A Key Performance Indicators (KPI) system has been introduced in the Department to align teachers’ initiatives in teaching, research, and administration areas. The self-appraisal performance method is evaluated on a score for 100 points, Category wise maximum score is is detailed in Table 5.9.1.

Table 5.9.1 Category wise maximum score

S. No.	Category	Maximum Score
1	Teaching, Learning & Evaluation	30
2	Faculty Development	15
3	Research & Consultancy	45
4	Governance & Administration	10
	Total	**100**

The performance of each faculty member is assessed according to the guidelines outlined in the performance evaluation form through a four-level hierarchical process as follows:

1. Self-Appraisal (Faculty self-evaluation)

2. Appraisal by Department Heads

3. Appraisal by the Principal

4. Appraisal by the Vice Chairperson/Chairman

To ensure consistency in assessment, evaluation involves verifying all supporting documents provided by the faculty. The faculty are evaluated for a score of 100.The increments for the yearly appraisal are assessed for an increment of 0% to 3% based on the score range detailed in Table 5.9.2.

Table 5.9.2 Score range and corresponding increment percentage

S.No	Score Range	Increment % on Basic
1	Greater than 90 and equal to 100 increment	3
2	Greater than or equal 80 and less than 90	2.5
3	Greater than or equal 70 and less than 80	2
4	Greater than or equal 60 and less than 70	1
5	Less than 60	0

The sample photo copies of different set of increments received by Faculty in ECE Department are given in Fig 5.9.1 and Fig 5.9.2 below.

Fig. 5.9.1 Sample 3% increment form of the ECE Faculty

Fig. 5.9.2 Sample 1% increment form of the ECE Faculty

Incentives for Outstanding Research

The institute would like to encourage quality research in various thrust areas. To facilitate this, outstanding research contributions by faculty and researchers will be recognized. Accordingly, the institute has devised a scheme to provide incentives to researchers. These incentives for outstanding research are outlined in the Research and Consultancy Policy. The sample incentive received payment voucher is given in Fig. 5.9.3**.**

Fig. 5.9.3 Sample incentive received payment voucher of ECE Faculty

5.10 Visiting/Adjunct/Emeritus Faculty etc. (10) Total Marks 10.00

Institute Marks : 10.00

The visiting faculty from industry in the ECE department enriches the learning experience, enhances the relevance of the curriculum, fosters practical skills development, facilitates networking, promotes diversity of thought, and ensures that students are well-prepared for the demands of the modern workplace. Their presence contributes to the overall academic excellence and reputation of the department while ensuring that students receive a well-rounded education that extends beyond the confines of the traditional curriculum.

The visitng Faculty details academic year wise are given in Tables 5.10.1 to 5.10.4, sample photos of the classes are given in Fig 5.10.1 and Fig 5.10.2 and some sample time tables are given in Fig 5.10.3 to Fig 5.10. 5

AY 2023-24

Table 5.10.1 The details of visiting faculty for the academic year 2023-24

S. No	Name of faculty	Name of the Industry	Duration	Subject	Interactions
1	Shaik Adeeba Zohera	Codetantra	60 hours	Advanced python programming	Training and guiding the students
2	Mr.A.Bharatdwaj	Smart Bridge	60 hours	IoT with IBM Cloud / AWS Cloud	Training and guiding the students

AY 2022-2023

Table 5.10.2 The details of visiting faculty for the academic year 2022-23

S. No	Name of faculty	Name of the Industry	Duration	Subject	Interactions
1	Mr. J. Prem Kumar	PVR Tech. Hub. Hyderabad	50 hours	AI Powered Embedded System and IoT	Training and guiding the students
2	Mr.Jalandhar	COIGN Consultants Ltd	120 hours	C & DS. Algorithms. Introduction to Web Technologies	Training and guiding the students

AY 2021-2022

Table 5.10.3 The details of visiting faculty for the academic year 2021-22

S. No	Name of faculty	Name of the Industry	Duration	Subject	Interactions
1	Mrs. Amtul Mubeen	Cantilever	120 hours	Competitive Coding Basics of C, C++ and Java	Training and guiding the students
2	Mr. Aneeq Dholakia Mr.Devang Sharma,	Edyst Training Services, Hyderabad	100 hours	Advanced Algorithams and and Data Structures training Program	Training and guiding the students

AY 2020-2021

Table 5.10.4 The details of visiting faculty for the academic year 2020-21

S. No	Name of faculty	Name of the Industry	Duration	Subject	Interactions
1	Mr. Aneeq Dholakia and Mr.Devang Sharma,	Edyst Training Services, Hyderabad	100 hours	Advanced Algorithms and Data Structures training Program	Training and guiding the students
2	Mr. Mohamed Abudullah, Mr.Shasank	Conduiraonline Education & Training Services,	120 hours	C&DS, JAVA, Quantitative Aptitude, Logical Reasoning and Verbal	Training and guiding the students

Some sample photos and time table proof of the Visiting Faculty interaction

Fig. 5.10.1. Mr. J. Prem Kumar, PVR Tech. Hub. Hyderabad, interacting with students and faculty as a part of AI Powered Embedded System and IoT training Program.

Fig. 5.10.2. Shaik Adeeba Zohera, Codetantra, Hyderabad, interacting with students as a part of Advanced python programming.

Fig. 5.10.3. Sample time table of visiting faculty for the AY 2023-24

Fig. 5.10.4. Sample time table of visiting faculty for the AY 2022-23

Fig. 5.10.5. Sample time table of visiting faculty for the AY 2021-22

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (40)

Total Marks 40.00

Institute Marks : 40.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Electronic Circ	3	Experimental tr	27 hrs out of 3(	K.L Varuna Kur	Lab Assistant (	B.Tech ,ECE
2	Basic Simulatic	1	25 Computer s	36 hrs out of 3(	Divya Devaraja	Lab Assistant	Diploma in Ele(
3	Digital System	3	Experimental tr	27 hrs out of 3(	P.Sridevi	Lab Assistant	B.Tech , ECE
4	Analog Circuits	3	Experimental tr	36 hrs out of 3(	L.Poorna Kuma	Lab Assistant	Diploma in Ele(
5	Analog and Dig	3	Experimental tr	27 hrs out of 3(	G.Karuna	Lab Assistant	B.Tech, ECE
6	Microprocesso	1	25 Computer s	36 hrs out of 3(	Divya Devaraja	Lab Assistant	Diploma in Ele(
7	e-CAD and VL!	1	28 computer s	27 hrs out of 3(	G.Sreedevi	Lab Technician	ITI (Electronics
8	Digital Signal F	1	TMS 320CS67	27 hrs out of 3(	G.Karuna	Lab Assistant	B.Tech , ECE
9	Computer Netv	1	26 Computer s	27 hrs out of 3(	K.L Varuna Kur	Lab Assistant (	B.Tech , ECE
10	Electronic Desi	1	40 Computer s	36 hrs out of 3(	P.Sridevi	Lab Assistant	B.Tech , ECE
11	Microwave Eng	3	Microwave tes	36 hrs out of 3(	G.Radhika	Lab Assistant	Diploma in Ele(
12	Python Prograı	1	26 Computer s	27 hrs out of 3(	K.L Varuna Kur	Lab Assistant (	B.Tech , ECE
13	Project Laborat	3	Breadboards, [	36 hrs out of 3(	L.Poorna Kuma	Lab Assistant	Diploma in Ele(
14	Project Laborat	3	Klystron power	18 hrs out of 3(	G.Radh ika	Lab Assistant	Diploma in Ele(

6.2 Laboratories maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks : 10.00

Laboratories Maintenance

The laboratories in ECE Dept are maintained as per the standards set by the statutory bodies. Each laboratory has a faculty in-charge to address the technical issues, if any. All computer laboratories are equipped with computers with modern configuration and licensed software.

The proper functioning of equipment in all the laboratories is checked by the Lab Assistants in every semester and minor repairs are carried out by them as and when they are needed. Then it is recorded in the Maintenance Register. Stock Register is maintained in all the laboratories.

Fire extinguisher is available in all the laboratories. Stock verification is done for every year to confirm the availability and working condition of the equipment. The maintenance of all the laboratories in the department is furnished below.·

1) Lab Assistants will check the working condition of the equipment/computer systems twice in a semester.

2) Cleaning of the equipment and work tables is done once in a week by the Attenders.

3) Floor cleaning of labs is done on daily basis by housekeeping department of the college.

4) Floor mopping of labs is done once in a week by housekeeping department of the college.

5) The students are given instructions in handling the equipment before doing the experiments.

6) Laboratory manual is given to the students which include list of experiments and the procedure of doing the experiments.

7) Stock register is maintained in all the laboratories.

8) Minor repairs are carried out by the Lab Assistants.

9) When a major repair occurs, a person will be called from the company and approval for service of equipment is obtained from the concerned Lab in-charges.

10) Service Register is maintained in each laboratory.

Overall Ambience

The infrastructure and the equipment in the laboratories create the right ambience for the students to conduct experiments in the laboratories.

1) Spacious and well-furnished laboratories with good ventilation and lighting facilities are available.

2) All laboratories are equipped with essential equipment to meet the requirements of the curriculum.

3) For maintaining good ambience in all laboratories, weekly cleaning of equipment is carried out.

4) Identification number for each equipment is marked on the Equipment/Computer systems.

5) Do's and Don'ts are displayed in all the laboratories.

6) List of experiments is displayed in all the laboratories.

7) The laboratory manuals are available in both soft and hard copies

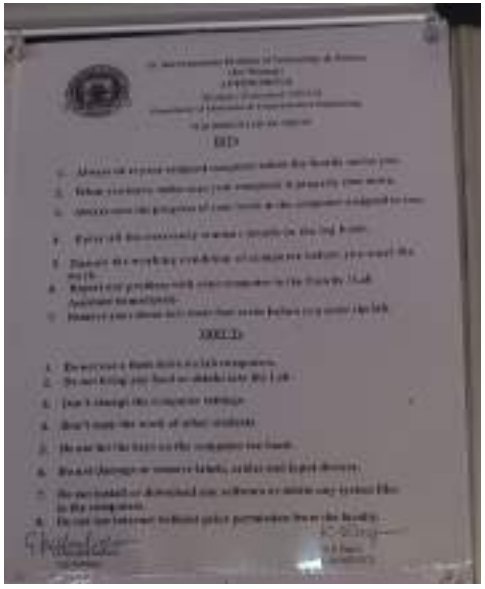


Fig. 6.2.1 Display of Do's and Don'ts

Photos of all laboratories

Fig. 6.2.2 Basic Simulation Lab

Fig. 6.2.3 Electronics and Devices Lab

Fig. 6.2.4 Digital System Design Lab

Fig. 6.2.5 Analog and Digital Communications Lab

Fig. 6.2.6 Digital Signal Processing Lab

Fig. 6.2.7 Microprocessors and Microcontrollers Lab

Fig. 6.2.8 ECAD & VLSI Lab

Fig. 6.2.9 Electronic Design Lab

Fig. 6.2.10 Microwave Engineering Lab

Fig. 6.2.11 Projects Lab-I

Fig. 6.2.12 Python Programming Lab

Fig. 6.2.13 Computer Networks Lab

- Laboratories are fully equipped with ample hardware and licensed software to execute program-specific curriculum, ensuring students benefit from a comprehensive and impactful learning journey.

Table 6.2.1 List of Licensed – System Software

S.No	Software Name
1.	Windows 11

2.	Windows 10

Table 6.2.2 List of Application Software

S.No	Software Name
1.	MATLAB Standard Suite (2023B) with All toolboxes
2.	Multisim 2001
3.	Netsim Academic Version(V12)(30 users License)
4.	Xilinx Vivado System Edition-2018.1(ISE-14.7)(25 users License) Nexys4A7 FPGA Board-7No
5.	Mentor Software-(HEP-1,HEP-2)50 Users
6.	Keil Microvision 5

Table 6.2.3 List of Open source Software

S.No	Software Name
1.	Python
2.	Arduino
3.	Tasm 1.4
4.	Turbo C
5.	Anaconda
6.	Raspberry Pi OS
7.	Jupyter Notebook
8.	Adobe photoshop
9.	Linux

- Student log registers are maintained in all laboratories for effective management, supervision, and assessment of laboratory sessions in the department.

Fig. 6.2.14 Sample Log register

- Fire extinguishers are installed and regularly refilled to guarantee swift access to firefighting equipment for individuals within the laboratory, enabling prompt responses to emergencies. This measure aids in reducing property damage, injuries, and loss of life, fostering a safer work environment that mitigates the potential impact of fire-related incidents.

Fig. 6.2.15 Fire Extinguishers are installed in the Laboratory

- The department is equipped with a medical kit to address immediate or emergency needs. This proactive measure enhances emergency preparedness, facilitates swift responses to medical incidents, promotes safety and well-being, and supports the provision of first aid within the department.

Fig. 6.2.16 Medical Kit

Fig. 6.2.17 AMC for UPS

- Laboratories are equipped with Laser jet Printers to provide students, faculty, and staff with access to high-quality, fast, cost-effective printing capabilities.

Fig. 6.2.18 Printer in the Laboratories

- The lab cycles are displayed in all laboratories for providing a structured framework for planning and organizing laboratory activities. This helps in effective scheduling, resource allocation, communication and coordination . By adhering to a predefined schedule, laboratories can optimize the use of resources such as equipment, facilities, and personnel. This minimizes idle time and maximizes the productivity and efficiency of laboratory operations.

Fig. 6.2.19 Lab Cycles in the Laboratory

- Lab charts are displayed in every laboratory

Fig. 6.2.20 Sample Lab Charts are displayed in the Laboratories

6.3 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Electronic Circuits Lab II year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
2	Basic Simulation Lab II year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
3	Digital System Design Lab II year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
4	Analog Circuits Lab II year B.Tech II sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
5	Analog and Digital Communications Lab II year B.Tech II sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
6	Microprocessors and Microcontrollers Lab II year B.Tech II sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
7	e-CAD & VLSI Lab III year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
8	Digital Signal Processing Lab III year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
9	Computer Networks Lab III year B.Tech II sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
10	Electronic Design Lab III year B.Tech II sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
11	Microwave Engineering Lab IV year B.Tech I sem	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
12	Projects Lab -I	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
13	Projects Lab -II	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.
14	Python Programming Lab II Year B.Tech Sem I (R-22)	1.Fire extinguishers are provided. 2.Safety Charts and Safety Instructions are provided. 3.Air conditioning for computer systems is provided. 4.UPS is provided for safe shutdown of Computer and also for backup when failure of electrical power occurs.

6.4 Project laboratory (20)

Total Marks 20.00

Institute Marks : 20.00

The ECE department has two well-equipped Project Laboratories, featuring essential tools such as CROs, Function Generators, RPS, and Soldering Irons along with some additional facilities. These facilities are utilized by students to undertake their major or mini projects. The hardware projects expo is also conducted to provide a platform for students to display their innovative creations and share their knowledge with a wider audience.

Project Laboratory-I

Project Laboratory-I has a carpet area of 66.6 sq. mts. A project laboratory typically refers to a dedicated space or facility equipped with tools, equipment, and resources for designing, prototyping, and testing projects. Project laboratory play a crucial role in hands-on learning, research, and development of electronic projects. They provide an environment where individuals can gain practical experience, apply theoretical knowledge, and troubleshoot real-world challenges associated with hardware development. The Project Laboratory I has equipment worth Rs.3 Lakhs.

Table 6.4.1 Details of Equipment available

S.No	Name of the Equipment	Quantity	**Utilization**
1	Stabilizer	1	36 hrs
2	Dual Trace Oscilloscope	10	
3	Function Generators	10	
4	Regulated Power Supply	6	
5	Digital Multimeters	10	
6	Breadboards	10	
7	Soldering Iron (with Stand)	10	
8	Lead	200gm	
9	Single Stand wire	2 Bundles	
10	Strippers &Cutters	10	
11	9V Batteries	20	

Fig. 6.4.1 Projects Laboratory-I

- **Project Laboratory-II**

Project laboratory-II has a carpet area of 84.77 sq. mts. and can accommodate 24 to 36 students. The projects focusing on microwave generator characteristics, microwave components, waveguide parameters, and antenna radiation patterns have been conducted. All the equipment operates in the X-Band (8 to 12 GHz frequency). The laboratory has equipment worth Rs.16,73,350 Lakhs.

Table 6.4.2 Details of Equipment available

S.No	Name of the Equipment	Quantity	**Utilization**
1	Klystron power supply solid state	12	18 hrs
2	Klystron tube with mount	12	
3	Solid state VSWR meter	8	
4	Gunn power supply	4	
5	Gunn Oscillator	4	
6	Slotted Section with probe carriage	9	
7	Dual trace C.R.O's and 2 channel digital storage C.R.O's	5&3	
8	Microwave Power Meter	1	
9	Antenna Radiation Pattern Measurement Setup	1	
10	Microstrip Patch Antennas	6	

Fig. 6.4.2 Projects Laboratory II

In addition to the Project Laboratory I & II , there are various facilities such as **JC Bose Research Center**, **Center of Excellence for Antenna Radiation Pattern Analysis** (https://www.gnits.ac.in/rcp6/), **Center of Excellence for Signal Processing and Machine Learning** , **Center of Excellence in Internet of Things** etc., catering to the requirements of the Mini/Major Projects.

Table 6.4.3 Research Center & Center of Excellence

S.No	Name of CoE	Centre Incharge	Collaboration Industry	Utilization
1	Jagadish Chandra Bose Research Center	Dr. Renuka Devi S.M	Smart bridge Pvt. Ltd	9 hrs
2	Center of Excellence for Antenna Radiation pattern Analysis	Ms. A. Sujatha Reddy	Navstar Integrated Systems Pvt. Ltd,	36 hrs
3	Center of Excellence for Signal Processing and Machine Learning	Dr. P. Chandrasekhar	PVR Tech Hub	9 hrs
4	Center of Excellence for IoT	Mr. Ch. Hari Prasad	Texas Instruments and Smart Bridge Educational Services Pvt. Ltd.	9 hrs

v. **JC Bose Research Center**

JC Bose Research center is a dynamic hub fostering in projects development and knowledge creation. Comprising multidisciplinary experts, it conducts cutting-edge research, drives technological advancements, and addresses critical challenges. With state-of-the-art facilities, it serves as a catalyst for collaboration, pushing the boundaries of scientific discovery and contributing to societal progress. This center primarily encompasses VLSI software, Arduinos, ESP 32, Raspberry Pi, and a variety of sensors.

Table 6.4.4 Details of Facilities available

S.No.	Name of the Equipment	Quantity
1.	Sensors :PIR, Ultrasonic, DHT11 Sensors, MQ Sensors, ADXLxxx, Flex Sensors, Turbidity Sensors, Pulse Sensors, Proximity Sensors, Dust Sensor, Water Flow Sensor, Speed Sensor, Heart Beat Sensor With ECG, Finger Print Sensor, Color Sensor,RC522 RFID Module, Pulse Sensor, Myoware Muscle Sensor, pH Sensor,TTP223 Touch Sensor, LCD Display, Piezo Electric Sensor Joystick Module, Logi Tech C270 WebCam, USB Mic, Ad8232 Module ECG Sensor , Arduino compatible pulse Sensor, MAX30100 Pulse Oximeter Heart Rate Sensor Module, OLED Display,	–
2	Micro Controllers: Arduino Board, Arduino Mega2560, Node MCU, XIAO SAMD21 Controller(Assembled), WIO Terminals, Raspberry Pi4, Pi cam.	-
3	Lora Smart city framework dragino Lora Shield	1
4	Zuzu Mini Robotic Dog	2
	Outdoor Quad rotor Drone	1
	Pic and Place Robot	2
5	From JNTUH-TEQIP project: Intel Real Sense Depth Cameras D435i & D435	Each -1
	NVDIA Jetson Nano board,	2
	SLAMTEC Slamtec RPLiDAR A2M12 360 Degree Laser Scanner.	1
6	Xilinx Vivado System Edition 2018.1 (25 Users), Nexy's A7	25 users
	FPGA Boards	7 No.s
	Zed Zynq 7000 Arm/FPGA Soc development Board	2
7	Mentor Graphics Back End Tools-HEP-1 Mentor Graphics Front End Tools-HEP-2- (50 Users)	50 users
8	MATLAB 2023 b	Campus Wise

Fig.6.4.3 JC Bose Research Center

v. **Center of Excellence for Antenna Radiation Pattern Analysis**

The Antenna Radiation Pattern Analysis (ARPA) Center of Excellence is a specialized research endeavor focused on understanding, enhancing, and implementing antenna technology across a wide range of wireless communication systems. Antennas are pivotal components within the realms of telecommunications, RADAR systems, satellite communication, wireless networks, and numerous other applications. This center acts as a central hub for state-of-the-art research, academic partnerships, and the development of practical applications. The laboratory is well-equipped to conduct advanced antenna development activities with MIMO kits, VNA and HFSS software of worth Rs.45 Lakhs.

Table 6.4.5 Details of Facilities available

S.No.	**Name of the Equipment**	**No. of Items**
1	SDR MIMO 2x2 NI USRI-2944	1
2	MIMO KIT (2X2) with NI lab View 2015 SPI Version	1
3	Vector Network Analyzer (S820E-0714) 1MHz-14GHz	1
4	Ansys HFSS Software 17.2 Version	25 Users
5	Matlab	Campus Wise

6	Desktops	4
7	Server	1

Fig. 6.4.4 Center of Excellence for Antenna Radiation Pattern Analysis

v. **Center of Excellence for Signal Processing and Machine Learning**

The Center of Excellence in Signal Processing and Machine Learning (CoE SPML) is a structured research entity established in November 2022. It acts as a central hub for high-caliber research in Signal Processing, Machine Learning, Data Science, Sensor Data Analysis, Speech/Image/Video Processing, and the integration of Machine Learning techniques into Digital Systems. The Center of Excellence for Signal Processing and Machine Learning serves as a forefront for pioneering research and innovation. Our diverse team collaborates with academic institutions, industry partners, and government entities to propel the advancement of AI technologies. Our emphasis lies in undertaking impactful projects that bridge the divide between theoretical research and real-world applications.

Table 6.4.6 Details of Facilities available

S. No	Hardware Facilities	Software tools
1	Zoom H4N Handy Portable Digital Recorder, Fingerprint Recognition and Logitech webcam, Thermal cameras, Zed Zynq 7000-ARM/ FPGA SOC development board	Anaconda Python Tensor Flow Numpy Scikit-Image Librosa, Scipy PyTorch Jupyter Notebook Matlab 2023b.

Fig. 6.4.5 Center of Excellence for Signal Processing and Machine Learning

v. **Center of Excellence in Internet of Things**

Department of Electronics and Communication Engineering (ECE) collaborated with the Texas University Program to create the Centre of Excellence in Internet of Things. This Center stands as a cornerstone within our academic institution, committed to nurturing innovation, expertise, and best practices in the field of IoT. Its establishment is geared towards enriching students skills, fostering technological innovation, and creating commercially viable smart systems. The laboratory is equipped with IoT kits valued at Rs.2.47 Lakhs, facilitating the development of various projects in IoT and Embedded systems.

Table 6.4.7 Details of Facilities available

S.No.	Name of the Equipment	No. of Items

1	**IoT Kits:** MSP430G2553 Development Kit, MSP430FR6989 Development Kit, CC110L Booster Pack, Educational BoosterPack MKII, C2000 Delfino MCUs F28377S Launch Pad Development Kit, Motor Drive BoosterPack featuring DRV8301 and NexFET MOSFETs, C2000 LED BoosterPack, Sensor Hub BoosterPack, SimpleLink MSP432P401R Development Kit, SimpleLink Wi-Fi CC3100 Booster pack, Grove starter Kit for launch pad, Simple Link Wi-Fi CC3200 Launchpad, CC2650 Sensor Tag, TM4C129E Crypto Connected IoT Gateway Launch Pad, Fuel Tank MKII Battery Booster Pack Plug-In Module, Thermocouple Booster pack ADS1118	36

Fig. 6.4.6 Center of Excellence in Internet of Things

Students Sample Projects:

Fig. 6.4.7 Smart Technology for Mushroom Cultivation using Arduino

Fig. 6.4.8 IoT surveillance robot with night vision camera

Beyond Syllabus

The department offers advanced facilities such as the **Vector Network Analyzer** (1MHz to 14GHz), **HFSS Software version 17.2**, **SDR MIMO 2x2 NI USRI-2944**, and **LabVIEW** catering to the needs of both minor and major projects. Students utilize these facilities to conduct additional experiments/projects that go beyond the syllabus within the laboratory. The following are the Sample List of Additional Experiments/Projects as shown in Table 6.4.8.

Table 6.4.8 Sample List of Additional Experiments/Projects

S.No	Name of the Equipment/Software	Title of the Additional Experiment / Projects	Academic Year
1	Vector Network Analyzer	Study of VNA	2020-21
2	HFSS Software	Horn Shaped SIW Antenna for 5G Applications	2020-21
3	HFSS Software	Siw Based Log Periodic Antenna Using HFSS	2020-21
4	HFSS Software	Octogonal Patch Antenna with S slot for WLAN and WIMAX Applications	2020-21
5	LabVIEW 2015 version	PCM modulation and Demodulation using LabVIEW	2021-22
6	HFSS Software, VNA	Design and Analysis of Dual Circular Polarized Antenna	2021-22
7	Xilinx Vivado System Edition 2018.1	To design Vending Machine using Verilog coder using case statement along with test bench	2021- 22
8	HFSS Software, VNA	Micro Strip Patch Antenna Based On FSS Using HFSS	2021-22
9	HFSS Software, VNA	Compact wearable Antenna for Biomedical Telemetry Applications	2021-22
10	HFSS Software, VNA	Microstrip Phased array with Beam Scanning for Satellite Applications	2021-22
11	LabVIEW 2015 version	SSB-SC Modulation and Demodulation using LabVIEW	2022-23

12	HFSS Software, VNA	Star slotted antenna for wireless communications	2022-23
13	HFSS Software, VNA	Gain Enhancement of a Microstrip patch Antenna for Wi-Fi Augmentation	2022-23
14	Cisco Packet Tracer	Configure network with a secure router and verify their connectivity between 2 PC's	2022-23
15	Cisco Packet Tracer	Establish a static routing between two routers	2022-23
16	Xilinx Vivado System Edition 2018.1	Design of Even 8 Bit Parity Generator	2022-23

7 CONTINUOUS IMPROVEMENT (75) Total Marks 75.00

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30) Total Marks 30.00

Institute Marks : 30.00

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.92	2.22	Target Level attained, however the contribution towards PO attainment was low from the subjects C210- Probability Theory & Stochastic Processes and C319-Linear Control Systems. Because: 1. The lack of CO5 attainment in PTSP is due to students found difficulty to use their knowledge to solve problems related to LTI system responses for random inputs 2. The lack of CO4 attainment in LCS is due to the students found difficulty to understand the concepts of Nyquist and Bode plots. To improve the attainment level of PO the following actions were incorporated
Action 1: Tutorial classes need to be continued for problematic subjects Action 2: Guest lectures from reputed sources related to latest technological advancement need to be planned Action 3: Practical subjects need to be understood from conceptual and application aspect.			
PO 2 : Problem Analysis			
PO 2	1.92	2.10	Target Level attained, however the contribution towards PO attainment was low in the subjects C210-Probability Theory & Stochastic Processes and C319- Linear Control Systems towards PO attainment was very low. Because: 1. The CO5 attainment is low in PTSP due to the understanding of mathematical analysis in multiple random variables. 2. Students inability to analyse, complicated engineering problems which leads to lack of CO4 in LCS The following actions were taken to improve the attainment level
Action 1: Students are given with assignments to practice and better understand the theoretical basic subjects like PTSP, LCS, EMTL, and EDC. Action 2. Subjects related to problem analysis are given tutorial classes to focus on problem solving. Action 3. Faculty covers topics beyond the syllabus in advanced subjects.			
PO 3 : Design/development of Solutions			
PO 3	1.92	1.98	Target Level attained, the following subjects, C 205- Digital System Design and C 214- Microprocessors & Microcontrollers Contributions towards PO attainment was low because: 1. The CO5 attainment is less in DSD as the Students encountered difficulty in understanding the design steps for a given functionality of combinational and sequential circuits. 2. The lack of CO6 attainment in MPMC is due to students found difficulty to use their knowledge in understanding the bit representations and protocols used for serial communication. To improve the target level of PO attainment the following actions were incorporated.
Action 1: In basic core subjects more design problems to be solved. Action 2: In R22 syllabus partial internal marks allocation is done to evaluate design concepts to the students. Action 3: Concerned core labs will be given high priority in execution. Action 4: Students need to do additional experiments to enhance their practical knowledge			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.92	1.88	Target Level not attained, the following subjects, C 212- Analog Circuits Contribution towards PO attainment was low because: 1. The lack of CO6 attainment in AC is due to students found difficulty to solve problems in D/A and A/D converters and its practical implementation. Hence the following actions was incorporated to improve the attainment level.
Action 1: Students are encouraged to do mini/major projects referring to standard journals in areas like communication and embedded systems. Action2: Assignments focusing to analyse complex problems topics are planned			
PO 5 : Modern Tool Usage			
PO 5	1.92	2.02	Target Level attained, the following subjects, C 303- EM Theory and Transmission Lines and C 306- Information Theory and Coding Contribute low towards PO attainment because: 1.The CO3 attainment is less in EMTL as the Students could not visualize the mathematical concepts of vector analysis to solve electrostatic and magneto static problems. 2.The lack of CO6 attainment in ITC is due to students found difficulty to use their knowledge in understanding the convolution codes and Viterbi decoding. Hence the following action was incorporated to improve attainment
Action 1: Theoretical concepts need to be implemented practically using simulation tools like MATLAB with complete tool box, HFSS, Lab view, Tinkercad and Multisim simulation softwares. Action2: To Conduct workshops for students and faculty to get experienced in advanced simulation tools			
PO 6 : The Engineer and Society			
PO 6	1.92	1.84	Target Level not attained, however the following subjects, C 322- Bio-Medical Electronics Contribute low towards PO attainment because: 1. The CO6 attainment in BME is low as students found difficulty to understand various methods involved in the measurement of non-physiological parameters involved in handling bio medical instrumentation. To improve the target level of PO attainment the following actions were incorporated
Action 1: Students are encouraged to undertake internships in order to gain practical industrial experience. Action2: Motivate the Students to participate in hackathons to solve societal problems			
PO 7 : Environment and Sustainability			
PO 7	1.92	2.02	Target Level attained, however the following subject, C305-Electronic Measurements and Instrumentation Contribute towards PO attainment was low because: 1.CO attainment was low in EMI as Students Found difficulty in understanding the concepts of transducers. To improve the target level of PO attainment the following actions were incorporated
Action 1: Guest lectures by eminent personalities, motivational talks during events like Women Leadership Conclave in various events are planned Action2: Invited talks to make the student conscious of their responsibilities from societal and environment aspects. Action 3: Students are given awareness through clubs on energy managements, Go Green etc.			
PO 8 : Ethics			
PO 8	1.92	1.94	Target Level attained, Because, Most of the students are referring to online resources for understanding the project To reach the target level the following actions has incorporated.
Action 1 Students to be made aware of professional ethics and engineering principles by guest lectures so that students solely put efforts during their preparation of project dissertation and Assignments. Action 2: All project documentations are to undergo plagiarism check.			
PO 9 : Individual and Team Work			

PO 9	1.92	2.06	Target Level attained, Because, 1. The attainment is less as the students have less time to do project. 2. The attainment is low as the student lack in team work in laboratory. To improve the level of PO attainment the following actions were incorporated.
Action 1: More events are to be planned in technical and non-technical associations of students. i.e. IETE, ISTE, IEEE Student Branch GNITS and student clubs , for their personality development and team work. Action2: Students are encouraged to participate in J-Hub Projects Exhibition, Techfests, intercollege level and Hackathons. Action 3: Project work duration is extended in to two phases in fourth semester giving them more time to wotk as a team. Action 4: Motivate the students to participate in interdisciplinary projects to solve societal problems.			

PO 10 : Communication

PO 10	1.92	2.11	Target Level attained, the following actions were incorporated to improve attainment further.
Action 1: Students are encouraged to participate in inter and intra college competitions, seminars, workshops, symposiums and conferences etc., to improve their communication skills. Action 2: More project reviews are planned for improving communication skills.			

PO 11 : Project Management and Finance

PO 11	1.92	2.07	Target Level attained, Because: 1. Hackathons and project exhibitions were rarely participated by students. Hence the following actions were incorporated to attain the target level.
Action 1: Mini projects with interdisciplinary are introduced for second year students in curriculum to improve their project management skills. Action 2. Innovation and Incubation centre is established to conduct more Hackathons for project management. Action 3. Guest Lectures, mock interviews have to be planned by the department alumni entrepreneurs.			

PO 12 : Life-long Learning

PO 12	1.92	1.94	Target Level attained. The following actions were taken to improve the attainment level.
Action 1: At least one question in research orientation are included by faculty so that the students refer to journal /conference in the assignments, to make the students self-reliant. Action2: Interdisciplinary courses introduced in Open electives and minor degree, allows students to explore societal needs that makes individual learning more relevant and authentic.			

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Research Activities: Develop abilities to successfully analyze, execute and synthesize hardware and software oriented mini and technical major projects in identified specializations and areas of interest, and enrich industry compatibility.			
PSO 1	1.92	1.85	Target Level not attained because: 1.Students had lack of practical exposure in analytical based subjects. 2.The students' inability to analyse complicated engineering problems and inadequate practice. 3.Students encountered difficulty in the subjects that involved both design and analysis concepts. The following actions were incorporated to reach the target level.
Actions 1: Students are encouraged to participate national level competitions like Smart India Hackathon, Ideathon etc., that motivates them to do real time projects. Action 2: Students have to be motivated to participate in club activities, Hackathons and research oriented projects in collaboration. Action 3: Innovation and Incubation centre is established to nurture the innovative ideas for product development.			
PSO 2 : Professional Outlook: Establish a good knowledge sharing network and peer connectivity through Professional Society Memberships, Conduct of seminars, Technical Events and Conference Paper Presentations, and earn prominence.			
PSO 2	1.92	1.93	Target Level attained. the following actions were taken to attain the target level.
Actions 1: Students are encouraged to publish research papers in conferences, National and International events.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (15) Total Marks 15.00

Institute Marks : 15.00

I . Academic Audit Process and Implementation:

Academic Audit is conducted to ensure the quality standards of each Program within the Institution. This practice serves to identify the Strengths, Weaknesses, Opportunities, and Challenges (SWOC) within Programs, guiding efforts towards Program enhancement.

The Academic Audit process encompasses evaluation at both Course and Program levels, utilizing a comprehensive proforma and develop in alignment with the Criteria established by Statuary bodies such as the NBA, NAAC and UGC/AICTE for Autonomous Institutions. Proforma also facilitates a thorough Audit of all Key factors related to Academics.

The Program Level Academic Audit document provides an overview of the commitment to delivering high-quality Academic Programs and is achieved through several Key Factors:

- Curriculum
- Student Enrolment
- Student Academic Performance
- Progression, Teaching-Learning Methodologies
- Program Outcomes and Student Support Mechanisms
- Faculty Accomplishments and Contributions
- Governance

Internal Academic Audit and External Academic and Administrative Audits are each conducted once every year.

Internal Academic Audit is Qualitative and External Academic Audit is Quantitative.

Internal Academic Audit is carried out around one month before the External Academic and Administrative Audit so that the Programs have sufficient time to implement the recommendations from the Audit Team.

The External Academic and Administrative Audit is performed for 1000 marks considering every parameter related to the Programs which include

i.Course content
ii.Teaching - Learning Process
iii.Examination and Evaluation system
iv.Results
v.Other activities
vi.Infrastructure
vii.Department Administration
The process flow for Internal and External Academic Audits conducted in shown in Fig.7.2.1

Fig. 7.2.1 Process Flow for Internal and External Academic Audits

i. Internal Academic Audit

The Internal Academic Audit Proforma emphasizes on parameters geared towards enhancing Academic Quality and conducts assessments using the metrics generated. By quantifying the Programs overall performance, Strengths are identified, providing a morale boost, while Weaknesses are targeted for planning the strategies for improvement. This process enables the Program to continually elevate its standards, leveraging strengths and addressing areas in need of enhancement.

The Self-Assessment Report is prepared by each Department and submitted to the Principal on the last working day of August. Principal Allocates a Two-Member Internal Academic Audit Team to each Program.

a.Composition of Internal Academic Audit Team

The Internal Academic Audit Team consists of the IQAC Coordinator and HoD of other Program as assigned by the Principal.

b.The Process flow of Internal Academic Audit

- The Internal Academic Audit team collects the Self-Assessment Report of the assigned Program and visits the Department.
- The Internal Academic Audit Team conducts Audit as proposed by the Principal.
- The Principal and IQAC Coordinator consolidate the Audit reports of all Programs.
- Corrective Actions are discussed by the Principal and IQAC Coordinator with the respective HoD.

Fig. 7.2.2 shows the circular for Internal Audit issued by the Principal to the Heads of all the Departments along with the Self-Assessment Format which has to be completed before the Internal Audit as shown in Fig. 7.2.3.

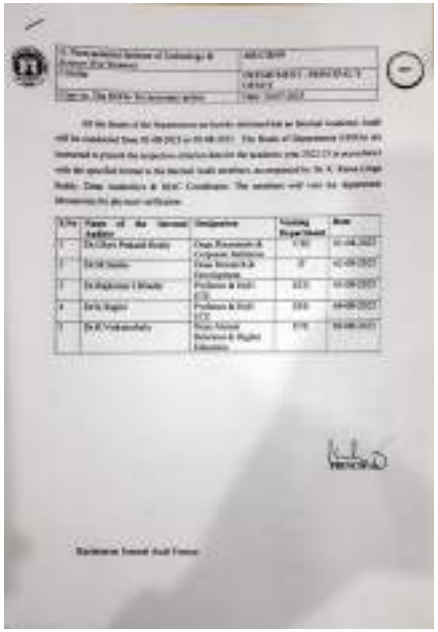


Fig. 7.2.2 Internal Audit Circular

Fig. 7.2.3 Self-Assessment for Internal Academic Audit of ECE Program.

ii.External Academic Audit / Academic and Administrative Audit (AAA)

The External Academic and Administrative Audit is to be done in the Institution by External Experts once every year in the month of September. Fig. 7.2.4. shows the circular issued by the Principal to all the Heads of the Departments informing them of the date of AAA and to prepare all the documents for verification according to the Key Indicators of Assessment as given in the Fig. 7.2.5.

a. **Composition of External AAA Team**

- External Academic and Administrative Audit team consists of 2 Faculty members (Experts) from other Institutes of repute, who have experience and/or training on academic quality systems, processes and strategies and audit tactics and methodologies.

b. **The Process of External AAA**

- The External Audit team, will first interact with the Principal, and the Heads of the Department (HoDs) to collect the details of the Programs and the Activities being conducted during the period of Audit.
- Auditors will then visit all Departments and facilities and generally verify the Self-Assessment Report along with the supporting documents. They interact with the HoD and the faculty in-charge of Quality Assurance and will seek clarifications of doubts if any.
- In the Exit meeting, the External Audit team will interact with the Principal, Internal Quality Assurance Cell (IQAC) coordinator, Heads of the department and present their brief observations and findings of the Audit. Both parties (the Principal and the External Audit Team) can express their views and analysis on the observations and findings of the audit.
- The Institute plans to implement the suggestions and recommendations proposed by the External Audit Team.

Fig. 7.2.4 Circular for the External Academic Administrative Audit

Criteria	Key Indicators (GNITS)	Max. marks
1. Curricular Aspects	1.1 (a) Curriculum Design and Development	25
	1.1 (b) Curricular Planning and Implementation	25
	1.2 Academic Flexibility	40
	1.3 Curriculum Enrichment	40
	1.4 Feedback System	20
	Total	**150**
2. Teaching Learning and Evaluation	2.1 Student Enrolment and Profile	30
	2.2 Catering to Student Diversity	50
	2.3 Teaching Learning Process	50
	2.4 Teacher Profile and Quality	50
	2.5 Evaluation Process and Reforms	50
	2.6 Student Performance and Learning Outcomes	50
	2.7 Student satisfaction Survey	50
	Total	**300**
3. Research Innovations and Extensions	3.1 Promotion of Research and Facilities	35
	3.2 Resource Mobilization for Research	35
	3.3 Innovation Ecosystem	35
	3.4 Research Publications and Awards	50
	3.5 Consultancy	35
	3.6 Extension Activities	50
	3.7 Collaboration	20
	Total	**150**
4. Infrastructure and Learning Resources	4.1 Physical Facilities	50
	4.2 Library as a Learning Resource	20
	4.3 IT Infrastructure	50
	4.4 Maintenance of Campus Infrastructure	20
	Total	**100**
5. Student Support and Progression	5.1 Student Support	50
	5.2 Student Progression	50
	5.3 Student Participation and Activities	50
	5.4 Alumni Engagement	10
	Total	**100**
6. Governance, Leadership and Management	6.1 Institutional Vision and Leadership	10
	6.2 Strategy Development and Deployment	10
	6.3 Faculty Empowerment	50
	6.4 Financial Management and Resource Mobilization	20
	6.5 Internal Quality Assurance System	50
	Total	**100**
7. Institutional Values and Best Practices	7.1 Institutional Values and Social Responsibilities	50
	7.2 Best Practices	50
	7.3 Institutional Distinctiveness	50
	Total	**150**
	TOTAL SCORE	**1000**

Fig. 7.2.5 The Key Indicators of Assessment for the External AAA

iii) Implementation of Internal Academic Audit in Relation to Continuous Improvements:

Initially, schedule will be given by the IQAC to conduct the Internal & External Academic Audit.

Few Observations\recommendations of internal academic audit for 2022-23 are as follows:

Observations:

- Considerable changes have been made in the existing Course Content and New Courses have been Introduced in UG as well as PG Programs in GNITS-R22 course structure
- ICT Tools are being used in Curriculum delivery by most faculty
- Workshops and Industrial Visits are organized regularly
- Good number of Faculty have completed Certification Courses
- Journal and Book Publications have improved
- PG enrolment is very poor
- Increased Budget sanction

Recommendations:

- Quality of Publications from faculty and students need to be improved
- No. of Patents Published and Granted must be improved
- No. of faculty with Ph.D Degree must be more
- Consultancy Projects and Funded Projects must be increased
- Training Programmes for Teaching and Non-Teaching staff can be increase

Fig. 7.2.6 Internal Audit Report

iv) Action Plans from the Department of ECE on the above Recommendations:

a. Quality of Publications from faculty and students need to be improved.

- The faculty are advised to publish at least one research article in either Scopus (or) Tier-1 and Tier-2 journals and conferences and one indexed conference in a year. In this way, the department can achieve good number of indexed publications continuously every year.
- Faculty are also advised to concentrate on book chapter publications on a continuous basis and this count is slowly improving.
- To motivate faculty, it is a regular practice of the institute to provide incentives to faculty and students to publish research papers in peer reviewed journals and conferences. So faculty are encouraged to publish and gain incentives.
- It is proposed to organize bi-annual International conference by the departments through collaborations so that exposure to currents trends and innovations in the technology can be established on continuous basis. This helps to have networking and publications through collaborations.

b. No. of Patents Published and Granted must be improved

Faculty are advised to publish Patents, and necessary support is provided by Innovative & Incubation cell in the college in terms of drafting and guidance for patents. Further Institute also provides financial aids to motivate the faculty for publication of patent and obtain patent granted. In this way, the department can develop and can contribute to the Institutes growth in achieving NBA, NAAC and NIRF ranking.

c. No. of faculty with Ph.D Degree must be more:

The faculty of ECE department are encouraged to get admission into PhD Programme, so that they can involve in research activities and contribute to the department, in turn to the Institute as well as their individual growth.

d. **Consultancy Projects and Funded Projects must be increased**

College has taken the steps to sanction internal SEED projects for the faculty, to work on the projects and improve their research skills in development of projects. This will further help them to be well prepared in applying for funding projects.

e. **Training Programmes for Teaching and Non-Teaching staff can be increase:**

Teaching faculty are encouraged to attend FDPs/STTPs/Workshops/NPTEL. Also the faculty are advised to attend training programs every year to upgrade the knowledge in their specialised areas. Various training and networking programs has been conducted for non-teaching staff to develop skills and technical knowledge.

II Status of Academic activities and outcomes as Continuous Improvements in the department during the assessment period.

A) Faculty contributions:

a. Research Publications:

i) Faculty members of the ECE department have shown consistent dedication to research and development, resulting in a significant number of SCI (E), Web of Science, and Scopus indexed publications during the assessment period.

ii) As of now, the department has produced 12- SCI/ESCI , 19 Scopus Journals. Conferences 46 Scopus. The publications are increasing gradually resulting from contributions by all faculty members as a team. Additionally, 15 published patents, and 5 granted patent during the assessment period. Table 7.2.1 shows the Number of International Journals & Conferences Publications over four academic years.

Table 7.2.1 Number of International Journals & Conferences Publications

International Journals							Total
S.No	**Details**	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**Total**	
1	**SCI/ESCI/ WoS**	2 (Under Review)	6	2	4	**12**	**31**

2	**Scopus**	2	9	5	3	**19**	
International Conferences							
S.No	**Details**	**2023-24**	**2022-23**	**2021-22**	**2020-21**		**46**
1	**Scopus**	6	15	6	19		
Total							**77**

i. Presently, the faculty research publications have received 1435 citations in various journals and conferences.

iv) The department has collaborated to organize conferences- 6th International Conference Intelligent Computing and Communication (ICICC-22) and 5th International Conference on Data Science, Machine Learning and Applications (ICDSMLA 2023). ICICC-22 conference was collaborated with NIT Warangal and the proceedings of both conferences were published in Springer and indexed in Scopus, and Web of Science.

i) Funded Projects:

The ECE department has received a total of 4-AICTE ATAL –FDPs, 1-AICTE-ISTE,1-AICTE-AQIS(GOC), 1-MODROBS, 2- JNTUH-TEQIP-III/ MHRD , 2- E & ICT NIT Warangal during 2020-2024 with a total funding of Rs. 25.29 Lakh.

Department has applied for 21 proposals applied for DST under TIDE, STI-Hub, Science for Equity Empowerment and Development (SEED), NCSTC, Device Development Programme, SERB, Tribal Sub Plan Scheme (TSP), and 3 projects for IRSO-RESPOND and 4 projects for Department of Biotechnology (DBT) during the assessment period.

b.Faculty Knowledge Upgradation: Faculty members are encouraged to upgrade their skills through certifications and courses in emerging technologies by various platforms like NPTEL, Coursera, STTP, FDPs, NITTTR COURSES, AI/ML certifications , part-time diploma courses of universities etc.

B) Curriculum, Teaching Learning Process and Evaluation:

Curriculum: With industry and research experiencing rapid advancements and innovations, there is a pressing need to adapt to the demands. Department of ECE at GNITS, an Autonomous Institute under JNTUH and UGC, is consistently revising its curricula in all fields to prepare students for the changing societal demands. The curriculum is continuously revised to meet industry demands, with initiatives facilitated for internships, workshops, and value-added courses contributing to holistic student development.

- Introduction of non-credit mandatory courses and value-added courses at department level to meet the industry requirements well before the graduation.
- Students are encouraged for Industry sponsored paid internships, free internships, participate in Hackathons, coding contests, project/model/prototype exhibitions at National level and inter-college level competitions.
- Department does regular curriculum revision every three years. In GNITS-R18 Course structure and GNITS-R22 Course structure is updated with 10 and 22 new courses respectively. The continuous refinement of curriculum results in meeting the Institution vision, mission and goals.
- The quality of sessional examination question paper, assignment and evaluation is ensured by IQAC. Guidelines are issued by the controller of examination to set a question paper before the commencement of internal examinations.

Teaching Learning Process and Evaluation:

- **Internal Quality Assessment Cell:** Mid question papers are checked for quality by the course and module co-ordinators who will be the senior faculty in department. Bloom's taxonomy levels are mentioned in question paper.
- **Course file :** Every faculty maintains Course material, which is monitored each semester.
- **Monthly attendance monitoring:** Class teacher monitors the attendance of class monthly, and the parents are informed by phone,if the attendence of the student is less than 65%.If the attendence is between 65%-75%, the reason for the shortage of attendence from the student is documented.
- **Class Review Committee:** This committee meets twice in a semester each time before the mid exams to check completeness of syllabus, understanding of subject by student. All the meetings are well documented in the department.
- **Mentoring and counselling guidance to students:** Students are monitored by faculty proctor. Students meet the proctor minimum two times in a semester, before and after I- mid exams.
- **Feedback analysis and Reward/Corrective measures taken:** Students give feedback on faculty every semester and corrective or improvement measures will be planned accordingly.
- **Scope for self-learning:** Faculty are encouraged to undergo NPTEL courses by giving leave and reimbursement of registration fee. Faculty also mentor the students.
- **Slip Tests** are conducted in Lab during every experiment done by the students.

Overall, the ECE department has shown commendable progress in research, student development, and curriculum enhancement. However, efforts are needed to further improve faculty publications, collaborations, and research incentives.

Department Highlights:

1.Certificate of Appreciation 2024 Award for ECE, GNITS from MathWorks for continuous support in adopting MATLAB and SIMULINK in the curriculum, student projects and research.
2.Department has around 8 active MoUs in the assessment period.
3.Department has bagged consecutively 3 times IETE ISF Awards given by IETE Hyderabad centre (over all Telangana and AP).

- **2021 year- 2nd Best ISF Faculty Coordinator Award**
- **2022 year- 1st Best IETE –ISF college Award**
- **2023 year- 2nd Best IETE –ISF college Award**.

Fig. 7.2.7 Receiving Best IETE ISF college Award 2021 certificate at IETE Hyderabad centre.

Fig. 7.2.8 Best IETE ISF Faculty coordinator 2020-2021.

Fig. 7.2.9 Receiving Best IETE ISF college Award 2023 certificate at IETE Hyderabad centre.

4.Department has well qualified faculty with 9 doctorates and 18. faculty pursuing Ph.D. from premier institutes (1-IITKGP, 2-IIITH, 3-NITs, 4-OU) of which 3 faculty have already submitted their Ph.D thesis.
5.Dr C Padmaja, has delivered a session on "**Tinker CAD Simulator**" in NITTTR Chandigarh (Through online mode) in Jan 2022.
6.12 ECE department faculty are serving as Reviewers for various indexed journals, conferences, Session chairs for international conferences, editorial board member of Journals.
7. Student Project 'Exhaust and Effluent Monitoring System' was selected in WE HUB by the Government of Telangana and was offered to work with 10 industries to implement this system under Funding graduation for incubated startups.
8. S. Prathyusha (16251A0452) scored GATE All India Rank 161, and **P. Amulya** (16251A04F8) scored GATE EC Rank 1135, IN Rank 1274. These students are pursuing Masters at IISc and IITH respectively.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10) Total Marks 10.00

Institute Marks : 10.00

A. Placement: Quality placement, Core industry, Pay packages etc.(5)

There has been a consistent growth in placement record of ECE students.

The department supports training initiatives aimed at enhancing students performance in written tests and interviews conducted by companies, thereby enabling them to excel in placements. For the AY 2022-23 the highest offers were 17.75 Lakhs per year by JPMORGAN CHASE. Over the recent years there has been Continues improvement in Number of offers, Average package and number of Companies visited. Many reputed companies such as JPMC, Carrier Corporation, ServiceNow, State Street, Deloitte, Providence, Tektronix, TCS, Franklin Templeton, Stellantis, Ford, Colruyt Group, EY INDIA, Prodapt, AT&T, Telstra, Accenture, DXC Technology, Cognizant, Capgemini, CGI, Bank of America come for placements. Also the department facilitates placement opportunities with renowned product-based companies like Micron, Synapsys, Silicon Lab, Qualcomm, Shure Audio Technologies Pvt Ltd, L&T, Freyr Energy Services Pvt. Ltd, and Wipro ETC.

Table 7.3.1 Placement data for last 3 Academic years

Year	No of Students on Roll	No of Students Eligible	No of Students placed	Placement Percentage
CAYm1(2022-23)	**197**	**181**	**164**	**83.24**
CAYm2(2021-22)	**197**	**186**	**160**	**81.21**
CAYm3(2020-21)	**210**	**184**	**143**	**68.09**

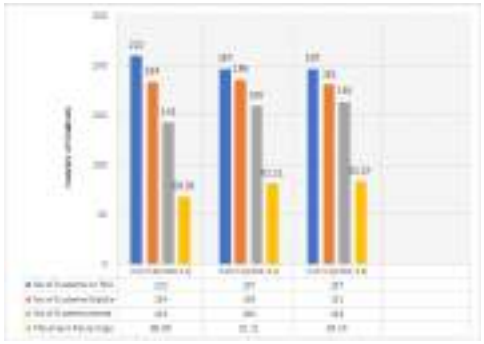


Fig. 7.3.1 Placement data for last 3 Academic years

Table 7.3.2 Service and Product based Companies

Year	Number of Service Based Companies	Number of Product based Companies		Total number of Companies Visited
CAYm1(2022-23)	30	03	Micron L & T Shure Audio Technology	33
CAYm2(2021-22)	26	06	Ford Motors Chetak Medha Servo Drive Micron Synopsys	32
CAYm3(2020-21)	19	02	Ford Motors Sonata	21

Table 7.3.3 CTC for last 3 Academic years

Year	Average CTC in Rs. Lakhs
CAYm1(2022-23)	6.92
CAYm2(2021-22)	6.54
CAYm3(2020-21)	4.72

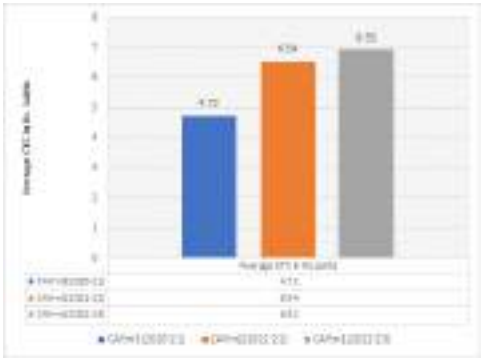


Fig. 7.3.2 CTC for last 3 Academic years

Table 7.3.4 *Highest package Placements for last three years

Year	Name of the Company	Salary	Number of Offers	No of students
CAYm1(2022-23)	1. JP MC	17.75L	6	23
	2.Carrier Corporation	15L	2	
	3.Quantium	11.5L	6	
	4.State Street	11L	2	
	5.Micron	10L	4	
	6. Telstra	8.75L	3	
CAYm2(2021-22)	1. Carrier corporation	15L	2	18
	2.Visa	13L	1	
	3. Synopsys	12.6L	2	
	4. Service Now	12.2L	1	
	5. AT & T	12.2L	3	
	6.State Street	11L	9	
CAYm3(2020-21)	1. JPMC	13L	1	5
	2. State Street	8.5L	4	

***Highest package considering more than 8Lakhs**

Fig. 7.3.3 Sample Appointment order of the student

Fig. 7.3.4 LinkedIn profiles of Students of 2023 Batch Placed in JPMorgan Chase & Co., Quantium and State street and Service Now

LinkedIn Profiles:

https://www.linkedin.com/in/mediboyina-chandana-344935195/ (https://www.linkedin.com/in/mediboyina-chandana-344935195/)

https://www.linkedin.com/in/rucha-dhodapkar-2a831a1ab/ (https://www.linkedin.com/in/rucha-dhodapkar-2a831a1ab/)

https://www.linkedin.com/in/m-charitha-a47b00206/ (https://www.linkedin.com/in/m-charitha-a47b00206/)

https://www.linkedin.com/in/bhavana-reddy-mettu-29664a23a/ (https://www.linkedin.com/in/bhavana-reddy-mettu-29664a23a/)

https://www.linkedin.com/in/priyanka-karli-72781b226/ (https://www.linkedin.com/in/priyanka-karli-72781b226/)

https://www.linkedin.com/in/kamireddy-keertimayee-9852411b6/ (https://www.linkedin.com/in/kamireddy-keertimayee-9852411b6/)

2020-2024 Batch Placement Highlights as on Date

B. Higher Studies: Performance in GATE, GRE, GMAT, CAT etc., and admissions in Premier institutions (3)

Performance in GATE, CAT, GRE, IELTS, TOFEL etc.:

Table 7.3.5 Summary of student performance in GATE, GRE, GMAT, CAT etc., for last three years

Year	GATE	CAT	GRE	IELTS	TOFEL	Total
CAYm1 (2022-23)	7	1	5	8	0	21
CAYm1 (2021-22)	3	0	7	1	1	12
CAYm1 (2020-21)	5	1	10	6	0	22

Table 7.3.6a Details of student performance in GATE, GRE, GMAT, CAT etc., exam wise for academic year 2022-23

S.No.	Roll No	Student Name	GATE/GRE/TOEFL/IELTS Score	Registration Number
1	19251A0454	Thurlapati Harini	GATE: 484	EC23S47105091
2	19251A0492	Mediboyina Chandana	GATE:417	EC22S31409418
3	19251A0492	Mediboyina Chandana	GATE:282	IN23S51401825
4	19251A04G5	Rommula Shruthi	GATE:235	EC23S41403793
5	19251A04F1	Mettu Bhavana Reddy	GATE: 426	EC23S41403391
6	19251A0495	Modium Madhurya	GATE: 5.67(NQ)	EC23S41401354
7	20255A0413	Dasari Neha	GATE:360	EC23S41401951
8	19251A04D2	Ashlesha Gottipati -	GRE:320.5	1589897
9	19251A04G4	Satya Priyanka Ponduru	GRE: 324	303049
10	19251A0443	Shloka Reddy Palwai	GRE: 322.5	1694583
11	20255A0407	Bhavana Marpadaga	GRE: 301.5	1344957
12	19251A0425	Kanuganti Jagruthi	GRE:321	469825
13	19251A04D2	Ashlesha Gottipati	IELTS: 6.5	V6972979

14	19251A04H4	Meghana Tiruvuru	IELTS: 7.5	S1951185
15	19251A04G4	Ponduru Satya Priyanka	IELTS:7	V3170898
16	19251A0481	Sri Vaishnavi Jamalapurapu	IELTS : 7.5	V3212390
17	19251A0464	sathvika bandlamudi	IELTS : 7	Z6967223
18	19251A0425	Kanuganti Jagruthi	IELTS: 6.5	V9024262
19	19251A0443	Palwai Shloka Reddy	IELTS:6.5	V3778858
20	19251A0415	Gundu Deepshikha	IELTS: 7.5	W5872757
21	19251A04B0	Sai Sathvika Daravath	CAT: 22.67	22156657

Table 7.3.6b Details of student performance in GATE, GRE, GMAT, CAT etc., exam wise for academic year 2021-22

S.No.	Roll No	Student Name	GATE/GRE/TOEFL/IELTS Score	Registration Number
1	18251A0454	Harshini. S	GATE - 362	EC22S31408457
2	19251A04F1	Bhavana Reddy M	GATE – 354	EC22S31401653
3	18251A04E9	Keerthana Vangala	GATE – 325	EC22S31403316
4	18251A0461	Ahalya Venkammagari	GRE- 311	9923930
5	18251A0499	Shreya Depa	GRE- 323	9497092
6	18251A0499	Shreya Depa	IELTS - 8.0	026112
7	18251A04C4	Rithika Bathini	GRE – 314	9862276
8	18251A04C8	Nithya Reddy Chinthakuntla	GRE – 324	0504464
9	18251A04C8	Nithya Reddy Chinthakuntla	TOEFL- 98	4611002225867902
10	18251A04F7	Bhargavi Chintha	GRE -316	9953657
11	18251A04G9	Mansirao Mudrakola	GRE – 308	0163646
12	19255A0413	Chandana Ramagoni	GRE – 320	0763275

Table 7.3.6c Details of student performance in GATE, GRE, GMAT, CAT etc., exam wise for academic year 2020-21

S.No.	Roll No	Student Name	GATE (Rank) /GRE/TOEFL/IELTS Score	Registration Number
1	17251A0402	B Monica	GRE :328	9817033
2	17251A0402	B Monica	IELTS :7.0	221645
3	17251A0485	S Jhansi Lakshmi	GRE :326	9448581
4	17251A0485	S Jhansi Lakshmi	CAT:75.59	20132056
5	17251A04H1	P Sai Mansi	GRE :323	8002363
6	17251A0445	K Anisha Reddy	GRE :320	9178092
7	17251A0445	K Anisha Reddy	IELTS :6.5	235653
8	17251A04D4	L Kshama Aditi	GRE :319	9202982
9	17251A04D4	L Kshama Aditi	IELTS :7.5	172005
10	17251A0426	K S Pradeepthi	GRE :318	9823124
11	17251A04J0	V Niharika	GRE :316	9285100
12	17251A04G9	K Lohitha	GRE :317	8502457
13	17251A04G9	K Lohitha	IELTS :7.0	010924
14	17251A0492	G Akanksha	GRE :315	9291815
15	17251A0468	K Niharika	GRE :301	8124008
16	17251A0468	K Niharika	IELTS :8.0	102190
17	17251A04B0	K Poojasree	IELTS :7.0	016238
18	17251A04B7	T Rashmika	GATE :309	IN21S11405374
19	17251A0457	S Priyanka	GATE :450	EC21S41409913
20	17251A04H0	P Sowmya	GATE:402	EC21S47402051
21	17251A0495	G Nikhitha	GATE:360	EC21S47422026
22	17251A04B2	S Vidya	GATE:250	EC21S41409137

Fig. 7.3.4 Sample GATE score card of the student

Admissions in Premier institutions: Students enrolling in higher studies helps them in the following aspects.

- Enhancing their career opportunities.

- Acquiring comprehensive understanding in their areas of interest.

- Elevating their earning capabilities.

- Accessing career progression prospects.

- Establishing connections with industry professionals.

- Cultivating a reputable and credible image.

- Sustaining competitiveness in their field.

Table 7.3.7 Summary of student admissions in premier institutions for last three years

S. No	Academic year	Students admitted into higher studies
1	AY 2023-24	11
2	CAYm1 (2022-23)	13
3	CAYm2 (2021-22)	21
4	CAYm3 (2020-21)	15

Table 7.3.7a Details of students admissions in premier institutions for academic year 2023-2024

S.No.	Batch/ Roll NO	AY	Program Graduated from	Name	Degree	Specialization	Date of Admission	Institution Joined (full address)
1	19251A04B5	23-24	B. Tech, ECE	Shreya Thokala	M.S	Computer science	17 May, 2023	Swansea University
2	19251A0432	23-24	B. Tech, ECE	Lalana Palwaye	M.S	Electrical and Electronics Engineering	17 July, 2023	North Carolina State University
3	19251A0481	23-24	B. Tech, ECE	Sri Vaishnavi J	M.S	Electrical and Electronics Engineering	28 August, 2023	University of Washington
4	20255A0407	23-24	B. Tech, ECE	Bhavana Marpadaga	M.S	Electrical and Computer Engineering	19 August, 2023	Portland State University
5	19251A04A9	23-24	B. Tech, ECE	Amrutha Regalla	M.S	Electrical and Computer Engineering	19 August, 2023	Portland State Univerity
6	19251A04H9	23-24	B. Tech, ECE	Divyasree Vammigari	M.S	Information Science/Studies	15 August, 2023	Seattle University, WA
7	19251A0402	23-24	B. Tech, ECE	Abarrane Emmanual Pala	M.S	Biomedical Engineering MSc	Sep 2023	Keele University
8	14251A0480	23-24	B. Tech, ECE	K V N S SRIVEENA	M.Tech	Software Systems	Jan 2024	Birla Institute of Technology & Science,Pilani
9	19251A04B4	23-24	B. Tech, ECE	Akshitha Tunki	M.S.	Electrical and Electronics Engineering	15 July, 2023	Goerge Mason University, Fairfax
10	19251A04G0	23-24	B. Tech, ECE	Disha Potru	M.S.	Computer Science	17 July, 2023	University of Dayton
11	19251A0487	23-24	B. Tech, ECE	SIRI Kesidi	M.S.	Engineering General	23 July, 2023	Florida Polytechnic University

Table 7.3.7b Details of students admissions in premier institutions for academic year 2022-2023

S.No.	Batch/ Roll NO	AY	Program Graduated from	Name	Degree	Specialization	Date of Admission	Institution Joined (full address)
1	18251A04B7	22-23	B. Tech, ECE	Vanam Mouna	M.S	Computer science	2022, September	University of Massachusetts,Boston
2	18251A0411	22-23	B. Tech, ECE	nimisha reddy kolukuri	M.S	Master's in business analytics	2022 AUGUST	ARIZONA STATE UNIVERSITY (ASU)
3	18251A0459	22-23	B. Tech, ECE	Gayathri Vutla	M.S	Computer Science	2022 and August (Fall)	Wichita State University
4	18251A0499	22-23	B. Tech, ECE	D Shreya	M.S	Electrical and Computer Engineering (Major - Electronic Circuits and Systems)	2022 September	University of California San Diego
5	18251A04G9	22-23	B. Tech, ECE	MUDRAKOLA MANSI RAO	M.S	Electrical and computer Engineering	2022 September	NORTHEASTERN UNIVERSITY
6	18251A04F7	22-23	B. Tech, ECE	Chintha Bhargavi	M.S	Finance and investment banking	2022 September	University of Hertfordshire
7	18251A0409	22-23	B. Tech, ECE	Ruchitha Gajawada	M.S	Computer Science	2022 May	Lamar University
8	18251A0454	22-23	B. Tech, ECE	Harshini S	M.Tech	Communication systems	2022 August	Indian Institute of Information Technology, kancheepuram, chennai
9	18251A0485	22-23	B. Tech, ECE	Sheri Keerthi Reddy	M.S	Computer Science	2022 August	Wichita State University
10	18251A04E4	22-23	B. Tech, ECE	Nini Muly	M.S	Computer Science	2023 January	USA
11	18251A04C4	22-23	B. Tech, ECE	B.Rithika	M.S	Information Systems and Technologies	2022 September	USA
12	18251A04C8	22-23	B. Tech, ECE	Nithya Reddy Chinthakuntla	M.S	Computer Science	Spring 2023	USA
13	18251A04H6	22-23	B. Tech, ECE	T.Harshitha	M.S	Mangament Scince and quantatiive methods	2023, January	USA

Table 7.3.7c Details of students admissions in premier institutions for academic year 2021-2022

S.No.	Batch/ Roll NO	AY	Program Graduated from	Name	Degree	Specialization	Date of Admission	Institution Joined (full address)
1	17251A0468	21-22	B. Tech, ECE	kaja niharika	M.S	Electrical Engineering	(21-22) Spring 2022	University of Missouri Kansas City
2	17251A04E0	21-22	B. Tech, ECE	Neha Reddy Nelly	M.S	Robotics and control systems	(21-22) 01-08-2021	New York University (NYU)
3	17251A04E2	21-22	B. Tech, ECE	Sadhvi Reddy	MBA	Communication Management	(21-22), June 2021	Symbiosis International University- Symbiosis School of Media and Communication
4	17251A0445	21-22	B. Tech, ECE	K Anisha Reddy	M.S	Information Systems	(21-22) 01-08-2021	University Of Texas Arlington
5	17251A04E9	21-22	B. Tech, ECE	U B L Keerthana	MBA	Finance	(21-22) 01-07-2021	Amity Global Business School
6	17251A0436	21-22	B. Tech, ECE	Chinmayee GVP	M.S	Computer and information science	(21-22) 01-08-2021	The University of Texas at Arlington
7	17251A04B7	21-22	B. Tech, ECE	THOTA RASHMIKA	M.Tech	Radar and communications	(21-22), July 2021	Defence Institute of Advanced Technology, Pune
8	17251A0485	21-22	B. Tech, ECE	Jhansi Lakshmi Somarouthu	MBA	MBA International Business	(21-22), Jan 2022	University Of Greenwich
9	17251A04B2	21-22	B. Tech, ECE	S Vidya	M.Tech	VLSI	(21-22), Aug 21	Motilal Nehru National Institute of Technology, Allahabad
10	17251A04G9	21-22	B. Tech, ECE	Naga sai lohitha karmuru	M.S	Management Information Systems	(21-22), Jan21	California state university, Los Angeles, USA
11	17251A0449	21-22	B. Tech, ECE	Mukku bhavana	M.Tech	CNIS	(21-22), 8-12-2021	G. Narayanamma Institute of Technology and Science

12	17251A04A1	21-22	B. Tech, ECE	M Mallika Reddy	MBA	HR	(21-22), 14-04-2021	ICFAI Business School
13	17251A0473	22-23	B. Tech, ECE	Nandu Tejaswini	MS	Electrical and computer engineering	25/7/2022	University of Florida
14	17251A04D4	22-23	B. Tech, ECE	Kshama Aditi Lethakula	M.S	Information Systems	Fall,2022	Northeastern University
15	17251A0488	22-23	B. Tech, ECE	Vaishnavi Rudraraju	M.S	Computer Engineering	Fall 2022	Virginia Tech
16	17251A0414	22-23	B. Tech, ECE	Nabila Hashim	M.S	Data Science	16/7/2022	University of Missuri Kansas city
17	17251A0431	22-23	B. Tech, ECE	Samritha Balam	M.S	Computer Science	Fall 2022	University of Maryland at Baltimore County
18	17251A04C1	22-23	B. Tech, ECE	Amrutha Sai Edara	M.S	Information Technology Management	23/7/2022	University of Texas Dallas, USA
19	17251A04H1	22-23	B. Tech, ECE	Sai Manasi Parankusam	M.S	Electrical Engineering	25/7/2022	Texas A&M University, College Station
20	17251A0430	22-23	B. Tech, ECE	Y Sai Sreeja	M.S	Data Analytics Engineering	8/8/2022	Northeastern University Boston
21	17251A04A9	22-23	B. Tech, ECE	Meghana Reddy	M.S	Communications Engineering	8/8/2022	Nanyang Technological University, Singapore

Table 7.3.7d Details of students admissions in premier institutions for academic year 2020-2021

S.No.	Batch/ Roll No.	A.Y	Program Graduated from	Name	Degree	Specialization	Date of Admission	Institution Joined (full address)
1	16251A0449	20-21	B. Tech, ECE	Sara Spanddhana	M.S	ECE	04-08-2020	IIITH, India
2	16251A04D3	20-21	B. Tech, ECE	Dantu Swati	M.S	ECE	08-08-2020	IIITH, India
3	16251A0413	21-22	B. Tech, ECE	Sowmya Gurram	MBA	ECE	26-4-2021	Liautaud graduate school of business
4	16251A0452	21-22	B. Tech, ECE	Sirisilla Prathyusha	M.Tech	Microelectronics and VLSI Design	27/05/2021	IISC, Bangalore,,India
5	16251A04G9	21-22	B. Tech, ECE	T Mounika	M.Tech	Integrated circuits Technology	08/07/2021	HCU, India
6	16251A0408	21-22	B.Tech, ECE	C Sneha Sree	M.S	Communication and Signal Processing	7/7/2021	IIT Madras, India
7	16251A0469	21-22	B. Tech, ECE	B.Srilekha	M.S	Data Science	23/7/2021	University of Alabama, Birhmingam
8	16251A04F8	21-22	B. Tech, ECE	Pendota Amulya	M.Tech	Communications and Signal Processing	5/082021	Indian Institute of Technology Hyderabad, India
9	16251A0471	21-22	B. Tech, ECE	Bobba Manisha	M.S	Computer Science	July 7, 2021	Texas Tech University, USA
10	16251A0437	21-22	B. Tech, ECE	Pulikallu Jahnavi	M.S	Business Analytics	23/8/2021	University of Texas, Dallas, USA
11	16251A0429	21-22	B. Tech, ECE	Mamillapalli Sahithi	M.S	Masters of science in Business Analytics	8/2/ 2021	The University of Texas at Dallas, USA
12	16251A04G3	21-22	B. Tech, ECE	Rasamalla Anusha	M.S	Computer science	23/7/ 2021	Texas Tech University, USA
13	16251A0460	21-22	B. Tech, ECE	Tirumala Tejasa Y	M.S	Computer Engineering	2021, Fall	Arizona state university, USA
14	16251A04H8	21-22	B. Tech, ECE	Y. Vaishnavi	M.S	Information Technology	24/7/2021	University of Cincinnati, USA
15	16251A04D6	21-22	B. Tech, ECE	Teja Sree Goli	M.S	Computer Engineering	20/12/2021	San Jose State University

Fig. 7.3.5 Sample copy of student admission to higher studies

C. Entrepreneurship(2)

Table 7.3.8 List of Activities for the last three years from the year 2020 to 2023

S. No.	Date	Topic	Details of the Resource Person	No. of participants
1	30th Aug., 2020	Online Group Discussion on Entrepreneurship	EDC Coordinators, GNITS	182
2	18th Sept., 2020	How to Take Off Your Startup	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	79
3	7th - 8th May, 2021	Digital Marketing	1.Prof. Debajyoti Banerjee, Founder & CEO, Seven Boats Academy 2.Prof. Biplab Das, Seven Boats Academy 3.Prof.Vijay Mishra, Seven Boats Academy 4.Prof.Dip Maitra, Seven Boats Academy	97
4	10th May, 2021	Start-up Incubator Session	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	123
5	29th Oct., 2021	Student Startups	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	265
6	30th Oct., 2021	Manthan Hackathon	Organized by the Bureau of Police Research and Development in association with MIC-AICTE	30
7	12th Nov., 2021	"Sambhav" – e-National Level Awareness Programme (e-NLAP)	Sri K.C. Chowdary, Sri G. S. Bist and Smt. N. Sumathi, DI-MSME, Hyderabad	148
8	29th Dec., 2021	Idea pitching competition and Student Entrepreneur Talk	Mr. Kartheek Thatikonda, Head-Marainxt Innovation Center, Hyderabad	103
9	16th March, 2022	SIH-2022 Internal Hackathon	Dr. A. Sharada, Professor, GNITS Dr. Raj Kumary L. B. Dr. G. Malini Devi	100
10	26th March, 2022	MSME Idea Hackathon 2022	Dr. P. V. D. Somasekhar Rao, Prof. in ECE and Dean, Academics Mr. Katheek Thatikonda, Head, MiraiNxt Innovworks Pvt. Ltd. Mr. Farhim Aslam Khan, CA	55
11	16th Jun., 2022	Startups, Creativity and Innovation-Make Your Idea to Happen	1. Prof. G.S. Prasad, Director of Centre for Research, Innovation, Technology and Entrepreneurship (RITE), University of Hyderabad. 2. Prof. VVSS Srikanth, Professor, School of Engineering Sciences and Technology, University of Hyderabad. 3. Prof. Salman Abdul Moiz, Professor, School of Computer and Information Sciences, University of Hyderabad. 4. Dr. Sudha Reddy, Founder and Managing Director of KN Bioscience.	313
12	1st Aug., 2022	Industrial Management as Open Elective	Mrs. Smitha Mahindrakar, Asst. Prof., Dept. of H&M, GNITS Dr.P. Rekha, Assoc. Prof., Dept. H&M, GNITS Mrs. T. Malathi Latha, Asst. Prof., Dept. of H&M, GNITS	180
13	1st August, 2022	Design Thinking	Mrs. P. M. S. Hallika, Asst. Prof., Mech. Dept., GNITS Ms.N.Hiranmai, Asst. Prof., Mech. Dept., GNITS	120
14	10th Oct., 2022	Research Methodology & IPR	Dr. V. Vijaya Lakshmi, Asst. Prof., H&M dept., GNITS	35
15	21st – 22nd Nov., 2022	FORZA	1.Sri Charan Lakkaraju CEO Stugmagz Forbes 30 Under 30 Asia 2018 2. Sri P.S.N. Murthy Founder & President for Promotions of Public Libraries	200
16	6th Dec., 2022	Design Thinking, Critical Thinking and Innovation Workshop	Mrs. Sakuntala Kasaragadaa, Incubation Head, GNITS	90
17	2nd January, 2023	Entrepreneurship and Project Management	Mrs. J. Mamatha, Asst. Prof., H&M Dept., GNITS Ms. E. Pranavi, Asst. Prof., H&M Dept., GNITS Dr.P.Rekha, Assoc. Prof., H&M Dept., GNITS Dr. Areman Ramya Sri, Asst. Prof., H&M Dept., GNITS	240
18	25th Jan., 2023	Toycathon	Dr. S. Ramcharan, HOD, IT Dr.G.Malini Devi, Assoc. Prof., CSE	22

19	8th – 9th Mar., 2023	Women in Business (Women Leadership Conclave)	1. Aruna Dara, Managing Director, Apna Green Products 2. Mallika Valluru - Co-Founder & MD, Radius EduTech 3. Nanditha Sethi - Founder & MD- The Entrepreneur Zone, Startup Mentor, Tedx speaker. 4. 4. Vanitha Datla, Vice Chairperson & Managing Director, Elico Ltd. 5. Anuradha Kanchi - Principal strategist, Avtar The Power of Diversity 6. Panneerselvam Madanagopal - CEO, Technogen, India 7. Sahithi Divi – CEO, Soul of Swadesh 7. Praveen Dorna – Co founder, SocioHub 8. Kavitha Natarajan - Senior CSR Professional, CGI 9.Vyshali Sagar - Startup Ramp India lead, Amazon Web services 10. Sahitya Anumolu - Co-founder, Inquilab Foundation	150
20	7th Apr., 2023	Kavach Internal Hackathon	Dr. S. Ramcharan, HOD, IT Dr. G. Malini Devi, Assoc. Prof., CSE	48 (6 Teams)
21	17th Apr., 2023	YUVA – Young Innovation Challenge "Unpacking the Challenge: Techniques for Defining the Problem Statement and Finding the Right Fit - Product Market Alignment"	1. Keerthi Priya, Founder and CEO of Koh! Foods 2. Kausthub Kaundinya Y, Founder and CEO of Jarsh Safety 3. Ms. Sakuntala Kasaragadda, Head of Incubation Center, GNITS	83 (20 teams)
22	21st June, 2023	Orientation session on Successful Entrepreneurs	Ms. Pavani Lolla, Founder of Futurestep Enterprises Ms. Aruna Dara, Founder of Apna Green Products Ms. Lakshmi Haritha Bhavani, Founder of Ancient Foods	900
23	24th June, 2023	Design Thinking Workshop	Mr. Vaibhav, Senior UX Designer at ADP	300

Table 7.3.9 Consolidated Data of Entrepreneurship Development Cell for the last three years

S.No.	Assessment Year	No. of Entrepreneurship Activities Conducted
1	2020-21	4
2	2021-22	7
3	2022-23	12

Table 7.3.10 List of Entrepreneur from ECE department

S. No.	Name of Entrepreneur	Year of Establishment	Name of Organization with Address and Website	Engineering Sector / Business
1	Nikhila Putcha	17/08/2018	Name of Organization: GSS Prosper Springs Private Limited Address: G 05 SUMADHURA SHANGRILLA; SEETHARAMAPALYA MAHADEVAPURA; BANGALORE; Bangalore; Karnataka; 560048; India Website: https://www.moneyplanned.com/	Software Engineering
2	Y. Sravani	1/12/2011	Name of Organization: M/s. ACE ENGINEERING PUBLICATIONS Address: 3rd Floor, Suryalok Complex, Rosary Convent School Road, Gun Foundry, Basheer Bagh, Hyderabad, Telangana – 500001 Website: https://www.aceengineeringpublications.com/	Engineering Education
3	Raaga Mayuri (Director for two companies)	19/8/2015 (Agrovet) 31/10/2013 (Electronics park)	Name of Organization: 1. Raaga Mayuri Agrovet Pvt. Ltd. 2. Elcina Raaga Mayuri Electronics Park Pvt. Ltd. Address (Agrovet): 78-8-A-12-2-108, Flat No. 13, 14 & 15 MAYURI RESIDENCY, VITTAL NAGAR, DEVA NAGAR KURNOOL AP 518002 INDIA Address (Electronics park): 50/760-b-9-a; Gayatri Estate; Kurnool; Vishakhapatnam; Andhra Pradesh; 518002; India. Website: http://www.raagamayurimegafoodpark.com/ http://raagamayurielectronicpark.com/	Electronics Engineering
4	Mallika Reddy M	2022	NH 44, Shamshabad, Hyderabad, Telangana 501218	Business

7.4 Improvement in the quality of students admitted to the program (20) Total Marks 20.00

Institute Marks : 20.00

Item		2023-24	2022-23	2021-22
National Level Entrance Examination	No of students admitted	26	25	20
JEE	Opening Score/Rank	100648	41674	61290
	Closing Score/Rank	977757	868775	735383
State/ University/ Level Entrance Examination/ Others	No of students admitted	138	137	140
EAMCET	Opening Score/Rank	5834	4180	3825
	Closing Score/Rank	18923	12631	16154
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	20	20	18
TS ECET	Opening Score/Rank	324	26	297
	Closing Score/Rank	478	619	664
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		91.26	90.03	90.96

8 FIRST YEAR ACADEMICS (50) Total Marks 47.24

8.1 First Year Student-Faculty Ratio (FYSFR) (5) Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Dr. T CHARAN	AIYPC2141C	M.Sc. and PhD	28/11/1998	PHYSICAL CHEMISTRY	Associate Professor	07/08/2009	100	100	100	Yes	Regular	
Dr. A. ALAKAN	AKKPA5353N	M.Sc. and PhD	30/06/2014	MATERIAL SCIENCE	Associate Professor	22/01/2001	100	100	100	Yes	Regular	
Dr. SHOBHAR/	BGGPP0205D	M.Sc. and PhD	03/08/1996	Physical Chemistry	Assistant Professor	06/06/2016	0	0	100	No	Regular	31/10/2022
Dr. D. SANJAY	BRYPD9763P	M.Sc. and PhD	01/12/2012	MATERIAL SCIENCE	Assistant Professor	02/12/2020	0	0	100	No	Regular	24/04/2022
Dr.G.RajKumar	BSAPG9742E	M.Sc. and PhD	23/10/2012	Nonlinear Optics	Assistant Professor	16/02/2024	100	0	0	Yes	Regular	
M.V.Ramana R	AFRPV7090M	M.E/M.Tech	01/03/2001	Industrial Engineering	Associate Professor	19/11/1997	100	100	100	Yes	Regular	
Dr. G.P. Prasac	AENPP0625B	ME/M. Tech and PhD	01/03/2012	Quality Assurance	Professor	01/09/1998	100	100	100	Yes	Regular	
Dr. S.M.SWAM	BMRPS7766P	ME/M. Tech and PhD	01/09/2017	Thermal Engineering	Associate Professor	01/11/2004	100	100	100	Yes	Regular	
S.N.Sarveswar	BJEPS5185C	M.E/M.Tech	01/06/2006	Energy Systems	Assistant Professor	18/07/2011	100	100	100	Yes	Regular	
N. Hiranmai	AGYPH6726Q	M.E/M.Tech	01/09/2015	Thermal Engineering	Assistant Professor	01/09/2015	100	100	100	Yes	Regular	
M. Yashwanth I	AOYPM6960M	M.E/M.Tech	01/06/2015	Production Engineering	Assistant Professor	18/01/2020	100	100	100	Yes	Regular	
P.M.S. Hallika	AFJPH4059N	M.E/M.Tech	18/10/2014	Climate Science and Technology	Assistant Professor	03/12/2020	100	100	100	Yes	Regular	
K. Naresh	CQPPK2160Q	M.E/M.Tech	01/02/2016	CAD AND CAM	Assistant Professor	04/11/2022	100	0	0	Yes	Regular	
D. Niharika	CKVPD0033R	M.E/M.Tech	01/01/2019	Advanced IC Engines	Assistant Professor	08/07/2019	100	100	100	Yes	Regular	
Dr.P.Aparna	AHXPP2411J	M.A and Ph.D	01/10/2004	COMPARATIVE LITERATURE	Professor	01/12/1997	100	100	100	Yes	Regular	
V. Jahnavi	AIFPJ3354F	MBA	01/02/2009	ELT COMMUNICATION SKILLSBUSINESS COMMUNICATION	Assistant Professor	04/12/2001	100	100	100	Yes	Regular	
Dr. M.Madhavi	ANTPM7723J	M.Sc. and PhD	01/11/2012	OPERATION RESEARCH AND INVENTORY MODELS	Associate Professor	07/06/2001	100	100	100	Yes	Regular	
Dr.M.Aparna	AJYPA2337D	M.Sc. and PhD	01/11/2006	COMPLEX ANALYSIS UNIVALENT FUNCTIONS	Associate Professor	26/08/2002	100	100	100	Yes	Regular	
Dr. NVSL. Nara	ADDPN0106A	M.Sc. and PhD	28/04/2009	mATHEMATICAL MODELLING	Associate Professor	19/09/2005	100	100	100	Yes	Regular	
Dr.S. Vasundha	AVRPS6883K	M.Sc. and PhD	10/09/2014	ELLIPTIC CURVE CRIPTOGRAPHY	Assistant Professor	21/09/2005	100	100	100	Yes	Regular	
V. Beulah Sang	AENPV1501N	MA	19/08/1996	ENGLISH LITERATURE	Assistant Professor	06/10/2006	100	100	100	Yes	Regular	
Dr. B.Sushma	BDMPS0720B	M.A and Ph.D	27/10/2011	INDIAN DIASPORIC FICTION	Associate Professor	05/11/2007	100	100	100	Yes	Regular	
K. Keshav Kum	AVGPK3070M	M.E/M.Tech	01/10/2004	OPTIMIZATION TECHNIQUES METAHEURISTIC ALGORITHMS	Assistant Professor	18/09/2009	100	100	100	Yes	Regular	
Dr B.R Lakshm	AMWPL8932A	M.A and Ph.D	01/02/2022	INDIAN DIASPORA ERITINGSCOMPARATIVE LITERATURE	Assistant Professor	11/01/2016	100	100	100	Yes	Regular	
Anupama Venu	ANGPV0109G	MA	01/09/2005	ELT SOFT SKILLS	Assistant Professor	27/05/2017	100	100	100	Yes	Regular	
B Hima Bala	ALDPB9431C	MA	01/05/2000	ELT SOFT SKILLS	Assistant Professor	07/01/2020	100	100	100	Yes	Regular	

Dr. K. Mrudula	AZNPM6940P	M.Sc. and PhD	01/05/2019	FUZY CLUSTERING ALGORITHEMS IN MACHINE LEARNING	Assistant Professor	07/12/2020	100	100	100	Yes	Regular	
Mrs. R. Elizabe	AQIPR8430R	MA	01/05/1995	ENGLISH LITERATURE	Assistant Professor	05/05/2021	100	100	100	Yes	Regular	
Dr. Neeli Rame	ALQPN7192K	M.A and Ph.D	25/07/2020	ELT	Assistant Professor	04/06/2021	100	100	100	Yes	Regular	
Dr. R. LAKSHM	ASNPP2680E	M.Sc. and PhD	01/01/2018	INTERAL TRASFORMS GRAPH THEORY COMPLEX ANALYSIS MACHINE LEARNING DATA ANALYTIC	Assistant Professor	04/04/2022	100	100	0	Yes	Regular	
Aswani R Jeev	BIJPJ1562Q	MA	01/06/2017	POST COLONIALISM TRIBAL LITERATURE GENDER STUDIES	Assistant Professor	09/05/2022	100	100	100	Yes	Regular	
I. PREM KUMA	ABCPI1466M	MA	01/04/2003	ENGLISH LITERATUIRE	Assistant Professor	15/02/2024	100	0	0	Yes	Regular	
N GAYATHRI	BADPN6196A	M.Sc	01/06/2015	MATHEMATICS	Assistant Professor	31/10/2022	100	100	0	Yes	Regular	
DONGALA SW	BDKPD2200B	M.Sc	01/04/2006	MATHEMATICS	Assistant Professor	03/11/2022	100	100	0	Yes	Regular	
P.Naveen	AONPP0809F	M.Sc	01/08/2003	MATHEMATICS	Assistant Professor	20/09/2005	0	0	100	No	Regular	29/07/2022
M.Shivaram Pr	AXPPM1732M	MA	01/04/2002	ENGLISH LITERATURE	Assistant Professor	01/02/2019	0	0	100	No	Regular	30/03/2022
Dr. S. UDA	AXXPS9034L	M.Sc. and PhD	12/05/2016	MATERIALSCIENCE	Associate Professor	01/07/2009	100	100	100	Yes	Regular	
CH. ARATHI	AJMPC8863C	M.Sc	01/05/2009	Solid State Physics	Assistant Professor	01/06/2016	100	100	100	Yes	Regular	
Dr. PRAGATHI	AICPJ6816D	M.Sc. and PhD	29/11/2012	INORGANIC CHEMISTRY	Assistant Professor	02/12/2020	100	100	100	Yes	Regular	
B.Rakesh Gou	AWSPB1491L	M.Sc	01/06/2009	Industrial Chemistry	Assistant Professor	01/07/2015	100	100	100	Yes	Regular	
B. MRINALINI	CMDPB4530K	M.Sc	18/06/2018	ORGANIC CHEMISTRY	Assistant Professor	02/12/2020	100	100	100	Yes	Regular	
Dr. Y. VEERAS	ACLPY4900G	M.Sc. and PhD	26/10/2018	METAL OXIDE THIN FILMS	Assistant Professor	26/03/2022	100	100	100	Yes	Regular	
Dr. MEDHA BH	BYRPB7832H	M.Sc. and PhD	07/06/2021	SOLAR ENERGY NANOMATERIALS	Assistant Professor	07/04/2022	100	100	100	Yes	Regular	
K. SRIDEVI	BNOPK5845H	M.E/M.Tech	01/11/2012	CSE	Assistant Professor	05/07/2013	100	100	100	Yes	Regular	
CH. SRAVANT	AKKPC8427H	M.E/M.Tech	01/11/2012	CSE	Assistant Professor	25/06/2012	100	100	100	Yes	Regular	
Mrs. E. Pranav	AAWPE9081F	MBA	01/05/2008	Finance HR	Assistant Professor	08/09/2021	100	100	100	Yes	Regular	
Dr. AREMAN R	BEQPA4009A	MBA & Ph.D	07/01/2022	Human Resource and Finance	Assistant Professor	24/03/2022	100	100	0	Yes	Regular	
DR. HEMA NEI	AGLPH4330F	MBA & Ph.D	10/12/2021	Finance	Assistant Professor	31/07/2023	100	0	0	Yes	Regular	
DR. ANURADH	ADUPT5005B	M.A and Ph.D	03/11/2004	Philosophy	Assistant Professor	17/08/2023	100	0	0	Yes	Regular	
DR. V PAVAN K	AMSPV9864B	M.Sc. and PhD	15/11/2022	Statistics	Assistant Professor	01/09/2023	100	0	0	Yes	Regular	
DR. B. RAJES\	AKPPB2090O	MBA & Ph.D	07/10/2021	Marketing HR	Assistant Professor	11/09/2023	100	0	0	Yes	Regular	
J Mamatha	BNJPJ7266A	MBA	01/05/2017	Finance HR	Assistant Professor	02/12/2020	100	100	100	Yes	Regular	
Dr. T. Malathi L	AESPT9653E	MBA & Ph.D	15/12/2023	HRM	Assistant Professor	02/01/2012	100	100	100	Yes	Regular	
Dr. V. Vijaya La	AEIPV6666D	MBA & Ph.D	02/03/2022	FINANCE	Assistant Professor	13/12/2003	100	100	100	Yes	Regular	

Dr. P. Rekha	AGUPP1462D	M.Com & Ph.D	15/07/2010	ECommerce	Assistant Professor	08/10/1998	100	100	100	Yes	Regular	
A Sreedhar	ARTPA3623R	M.Sc	01/05/2008	Mathematics	Assistant Professor	01/07/2019	0	0	100	No	Regular	29/01/2022
N. DIVYA	AZVPD8496P	M.E/M.Tech	12/05/2014	CSE	Assistant Professor	08/06/2014	100	100	100	Yes	Regular	
Dr. B. SASIDH/	AODPB4330F	ME/M. Tech and PhD	21/09/2017	MEDICAL IMAGE PROCESSING	Assistant Professor	10/08/2021	0	0	100	Yes	Regular	
D.ANUSHA	ATWPD2286N	M.E/M.Tech	17/11/2014	CSE	Assistant Professor	22/03/2022	100	100	0	Yes	Regular	
T.ANIL	ARVPT9636M	M.E/M.Tech	16/11/2016	CSE	Assistant Professor	05/01/2017	0	100	100	No	Regular	11/10/2023
K.SNEHA RED	CAWPK7397A	M.E/M.Tech	28/12/2016	CSE	Assistant Professor	16/01/2017	100	100	100	Yes	Regular	
K V SOWMYA	DAIPS6825L	M.E/M.Tech	05/05/2014	POWER ELECTRONICS AND ELECTRIC DRIVES	Assistant Professor	01/02/2017	0	100	100	Yes	Regular	
B ABHINETHR	DELPB5243E	M.E/M.Tech	03/08/2016	ELECTRICAL POWER SYSTEMS	Assistant Professor	01/08/2022	100	100	0	Yes	Regular	
S BHULAKSHM	FCPPB5532J	M.E/M.Tech	04/10/2021	POWER ELECTRONICS AND ELECTRIC DRIVES	Assistant Professor	31/03/2022	100	100	0	Yes	Regular	
S CHAITANYA	EGOPS4010N	M.E/M.Tech	15/09/2014	POWER ELECTRONICS AND ELECTRIC DRIVES	Assistant Professor	15/05/2023	100	0	0	Yes	Regular	
Dr. M. Nagasre	AICPM3659H	M.Sc. and PhD	01/10/2020	OPERATIONS RESEARCH	Assistant Professor	20/11/1997	100	100	100	Yes	Regular	
ARYA MOHAN	IKNPM8455G	MA	01/08/2021	English literature	Assistant Professor	19/06/2023	100	100	0	No	Regular	29/02/2024
D. Soujanya	CLBPD5088F	M.E/M.Tech	31/12/2018	CSE	Assistant Professor	01/07/2013	0	100	100	No	Regular	30/06/2023
P.MOUNIKA	DCBPP8792L	M.E/M.Tech	07/09/2016	CSE	Assistant Professor	03/08/2021	100	100	100	Yes	Regular	
Gunishetty Sur	BGIPG4532Q	M.E/M.Tech	01/05/2017	Design Engineering	Assistant Professor	15/03/2024	100	0	0	Yes	Regular	
Dr.K.Eshwari	ACIPE4828N	M.Sc. and PhD	31/12/2016	Inorganic Chemistry	Assistant Professor	15/04/2023	100	100	0	Yes	Regular	
T.V. RAM MOH	ALBPR9823N	MBA	01/12/2009	HUMAN RESOURCE MANAGEMENT	Associate Professor	01/06/1997	100	100	100	Yes	Regular	
P.V.ASHA LATI	ARJPK2597A	MA	01/05/1995	ELT	Assistant Professor	28/05/2021	0	100	100	No	Regular	31/05/2023
PVSSA. PARIM	BACCP8366H	M.E/M.Tech	09/11/2013	POWER ELECTRONIS	Assistant Professor	19/02/2019	100	100	100	Yes	Regular	
P. TEJASWI	BJVPP8970R	M.E/M.Tech	02/03/2013	HIGH VOLTAGE ENGINEERING	Assistant Professor	23/06/2014	0	0	100	No	Regular	30/11/2022
CH. LEELA KR	APSPC7551H	M.E/M.Tech	09/11/2013	Electrical power engineering	Assistant Professor	30/04/2015	0	0	100	Yes	Regular	
Dr. I. RADHIKA	AAVPI3845C	M.Sc. and PhD	20/08/2020	Gas Hydrates	Assistant Professor	01/08/2009	100	100	100	Yes	Regular	
O. SUJANA	ABHPO5695F	M.Sc	04/03/2008	Organic chemistry	Assistant Professor	03/08/2009	100	100	100	Yes	Regular	
S. RAMA KRIS	BMJPS8970D	M.Sc	03/05/2010	Solid state Physics	Assistant Professor	01/06/2016	100	100	100	Yes	Regular	
M. SREEVALLI	BXNPM5924N	M.Sc	03/04/2007	Solid state Physics	Assistant Professor	08/08/2009	100	100	100	Yes	Regular	
DR.R.Narende	AHGPR5279M	M.Sc. and PhD	17/04/2004	Organic chemistry	Assistant Professor	18/04/2022	0	100	100	No	Regular	12/09/2023
A. LEELA KUM	ADFPL2485E	M.E/M.Tech	21/04/2017	CSE	Assistant Professor	01/10/2022	100	0	0	Yes	Regular	

Dr.Moumita	AVUPC9148A	M.Sc. and PhD	02/08/2021	COORDINATION AND BIOINORGANIC CHEMISTRY	Assistant Professor	17/02/2024	100	0	0	Yes	Regular	
Dr.Sreekanth G	EALPS0359R	M.Sc. and PhD	23/12/2023	ORGANIC CHEMISTRY	Assistant Professor	16/02/2024	100	0	0	Yes	Regular	
DR. K.SYAMAL	ANQPK3486R	M.Sc. and PhD	23/06/2017	Solid Waste Management	Associate Professor	15/06/2006	100	100	100	Yes	Regular	
Smitha Mahind	AMXPM3105H	MBA	01/12/2009	Finance	Assistant Professor	09/07/2018	100	100	100	Yes	Regular	
Dr.M.Shanti	BBIPM8341L	M.Sc. and PhD	30/12/2023	Physico Organic chemistry	Assistant Professor	03/08/2009	100	100	100	Yes	Regular	
M. JYOTHI	AVDPM5710D	M.E/M.Tech	04/07/2014	CSE	Assistant Professor	01/10/2022	100	100	0	Yes	Regular	

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2021-22(CAYm2)	905	66	14	5
2022-23(CAYm1)	895	68	13	5
2023-24(CAY)	968	75	13	5
Average	922	69	13	5

AverageFYSFR: 0.00

Assessment [(5 * 15) / AverageFYSFR]: 5.00

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 4.33

Institute Marks : 4.33

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2021-22	20	31	45	4.00
2022-23	25	32	44	5.00
2023-24	27	32	48	4.00

Average Assessment: 4.33

8.3 First Year Academic Performance (10)

Total Marks 7.91

Institute Marks : 7.91

Academic Performance	CAYm1(2022-23)	CAYm2(2021-22)	CAYm3 (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	7.99	7.96	7.77
Total Number of successful students(Y)	191.00	194.00	180.00
Total Number of students appeared in the examination(Z)	191.00	194.00	180.00
API [X*(Y/Z)]	7.99	7.96	7.77

Average API[(AP1+AP2+AP3)/3] : 7.91

Assessment = Average API : 7.91

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

Course Level Assessment process:

The attainment of Course Outcomes is based on the following assessment and evaluation processes:

A. List of Assessment Tools used for CO Attainment:

1. Assignments:

Practice assignments are given to the students during the course in order to improve their conceptual knowledge, which involves application of the theoretical concepts in solving various problem-oriented questions. These will contribute to the assessment of students' abilities in applying fundamental concepts and to look into their quantitative, numerical and analytical skills.

2. Viva-Voce:

Several processes like seminars, case study, poster presentation, projects and asking viva questions related to every subject are conducted to assess the conceptual as well as experiential and practical knowledge of the students in the concerned subjects.

3. Examinations (Internal and Semester End):

The performance of a student in each semester is evaluated course –wise with a maximum of 100 marks for Theory courses (40 marks for Continuous Internal Evaluation(CIE) and 60 marks for semester end examination(SEE)) and 100 marks for Practical courses (40 marks for Continuous Internal Evaluation(CIE) and 60 marks for semester end examination(SEE)). For each course, two internal examinations and one semester end examination will be conducted.

a. **Continuous Internal Evaluation(CIE):**

The internal examinations are conducted for 40 marks. The distribution of marks and evaluation process are explained below.

I. **Assignment: (5M)**

Two assignments each for 5 marks will be considered. The first assignment should be submitted before the conduct of first mid and second assignment should be submitted before conduct of second mid. These assignment marks are added to internal marks.

II. **Internal (Mid-term) examination: (30M)**

Two internal examinations will be conducted each for 30 marks. The first internal examination will be conducted from 50 % of the syllabus and the second internal examination for the remaining 50 % of the syllabus. Each Internal examination consists of Part-A (Objective Type) for 10 marks and Part-B (Subjective Type) for 20 marks with duration of 2 hours. The Objective section may be set with very short answer questions. Subjective part contains 6 questions of which student have to answer any 4 questions of 5 marks each. The average of two internal marks for 35 is considered.

III. **Viva-Voce: (5M)**

5 marks are allocated for - Viva voce/Poster Presentation/Case study on a topic in the concerned subject. Assessment in the subject concerned shall be carried out before the commencement of II Mid Examinations

Sum of these three components of marks – (i) Average of two Mid-term examinations for 35 marks (ii) Assessment for the subject Viva-voce/Poster presentation / case study for 5 marks shall be final marks secured towards CIE for 40 Marks.

b. **Semester End Examinations(SEE):**

The semester end examinations are conducted for 60 marks. The question paper consists of Part-A for 10 marks and Part-B for 50 marks. Part-A comprises 10 very short answer questions carrying 1 mark each. All the questions of Part-A are mandatory. In Part-B, 5 long answer questions will be given one from each unit carrying 10 marks, each having internal choice of 2 questions out of which one question must be answered.

4. Evaluation of Laboratory Courses:

The laboratory courses are evaluated continuously throughout the semester for assessment. The evaluation is done with 40 marks for Continuous Internal Evaluation(CIE) and Semester End Examination (SEE) for 60 marks. Continuous Internal Evaluation for lab courses during the semester is for 40 marks. Out of 40 marks, day to day assessment of the lab work shall be judged for 20 marks. This marks are divided into 4 categories each 5 marks for Observation, attendance, performance, Viva-voce. One internal lab exam is conducted for 20 marks out of which 10 marks are allocated for viva-voce. The semester end practical examination will be conducted in the presence of external examiner appointed by the Head of the Department.

The frequency at which the above evaluations are done is listed in Table given below.

Assessment Tools and Frequency of Evaluation

Assessment Mode	**Type of Course Component**	**Assessment Tools**	**Frequency**	**Evaluation**
Direct	Theory Courses	Assignment	Twice in a semester	Theory Courses Viva – 05 M Subjective – 30 M Assignment – 05 M **Total = 40 M** **SEE 60 Marks** **Total 100 Marks**
		Viva voce/Poster Presentation/Case-Study	Once in a semester before second Mid	
		Mid-Term Examination	Twice in a semester.	
		Semester End Examination	Once in a Semester	
	Laboratory Courses	Continuous Internal Evaluation	Continuous	Day to Day Evaluation – 20 M *(Observation –*

		Record	Continuous	*05 M* *Record – 05 M*
		Internal Practical Examination	Once in a Semester	*Experiment – 05 M* *Viva – 05 M)* Internal Exam - 20 M
		Semester End Examination	Once in a Semester	Semester End Exam 60 M **Total Lab - 100 M**
Indirect	Theory and laboratory Courses	Course end Survey	Once in a Semester	Survey Form

The Grading System:

Marks will be awarded to indicate the performance of each student in each Theory course and Laboratory Course based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together), and a corresponding Letter Grade will be given.

As a measure of the student's performance, a 10-point Absolute Grading System is followed according to the Table :

Grading System (GNR-22 Regulations)

% of Marks Secured (Class Intervals)	**Grade**	**Grade Points**
>=90%	O (Outstanding)	10
>=80% and < 90%	A+ (Excellent)	9
>=70% and < 80%	A (Very Good)	8
>=60% and < 70%	B+ (Good)	7
>=50% and <60%	B (Above Average)	6
>=40 and <50%	C (Average)	5

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks : 5.00

I B.Tech – I Sem – Course Attainments

Course code	Name of the Course	COs	Cos description	SEE	CIE	Direct Attainment	Indirect Attainment	Total
121AG	LINEAR ALGEBRA AND MULTIVARIABLE CALCULUS	CO1	Solve and analyse the solution for the system of equations	97.35	89	3	2.93	2.99
		CO2	Compute the Eigen values and Eigen vectors which come across under linear transformations	78.84	88.74	3	2.76	2.95
		CO3	Determine the extreme values of functions of two variables with/without constraints	67.2	84.81	3	1	2.6
		CO4	Find the solutions of ordinary differential equations .	80.95	67.01	3	2.76	2.95
		CO5	Evaluate double and triple integrals	76.19	67.53	3	2.4	2.88
		CO6	Apply the knowledge of mathematics for real solutions	0	0	0	1	.2
121AH	PROGRAMMING FOR PROBLEM SOLVING	CO1	Relate various computing environments and formulate solutions to problems using algorithms and flowcharts.	84.49	75.91	3	2.85	2.97
		CO2	Understand data types and control structures to solve problems.	96.26	71.20	3	2.42	2.88
		CO3	Divide a problem into functions and synthesize a complete program.	93.58	69.10	3	1.97	2.79

		CO4	Use arrays, pointers and strings to formulate programs.	96.26	62.56	3	2.66	2.93
		CO5	Apply user defined data types to model real world data.	96.79	81.67	3	2.94	2.99
		CO6	Develop solutions to problems using file-handling functions.	94.12	82.19	3	2.88	2.98
121AA	APPLIED CHEMISTRY	CO1	The concepts to identify and analyse the hardness of water and its softening techniques in industry and daily usage	93.12	73.29	3	2.93	2.99
		CO2	The working principles of batteries and their applications in automobile field, corrosion and its prevention.	88.89	71.72	3	2.34	2.87
		CO3	The concepts of various types of polymers, conducting polymers, biodegradable polymers and their applications in industrial and medical fields.	90.48	63.08	3	2.29	2.86
		CO4	Different types of energy sources and their applications in various engineering fields engineering fields	87.30	71.72	3	2.87	2.97

		CO5	The usage and applications of various types of cements, lubricants and refractories in engineering field.	94.18	74.86	3	2.92	2.98
		CO6	The potential applications of chemistry in practical utility to become good engineers and entrepreneurs.	0	30.36		1.91	.38
121AB	APPLIED PHYSICS	CO1	Explain the quantum mechanical aspects in physics and apply the same in differentiating the conducting properties of solids	82.51	71.20	3	2.78	2.96
		CO2	Asses and modify the carrier concentration of different types of semiconductors and also be able to understand the working of semiconducting devices.	82.40	67.01	3	2.42	2.88
		CO3	Choose materials on the basis of their electric and magnetic behaviour for different engineering applications	83.97	74.08	3	2.46	2.89
		CO4	Differentiate different types of Lasers, optical fibers and realize their application in engineering fields	87.64	78.53	3	2.83	2.97

		CO5	Appreciate the importance of nano materials and their applicability in modern engineering applications	90.89	84.29	3	2.95	2.99
121AF	ENGLISH FOR SKILL ENHANCEMENT	CO1	Understand the importance of vocabulary and sentence structures	42.41	64.65	1	2.52	1.3
		CO2	Choose appropriate vocabulary and sentence structures for their oral and written communication	83.71	86.64	3	2.92	2.98
		CO3	Demonstrate their understanding of the rules of functional grammar.	91.10	79.58	3	2.78	2.96
		CO4	Develop comprehension skills from the known and unknown passages	99.48	84.81	3	2.95	2.99
		CO5	Take an active part in drafting paragraphs, letters, essays, abstracts, précis and reports in various contexts	84.29	82.19	3	3	3
		CO6	Acquire basic proficiency in reading and writing modules of English	50.79	67.01	1	2.23	1.25

I B.Tech – II Sem – Course Attainments

Course code	Name of the Course	COs	Cos description	SEE	CIE	Direct Attainment	Indirect Attainment	Total

122AK	NUMERICAL TECHNIQUES AND TRANSFORM CALCULUS	CO1	Find the root of the algebraic and transcendental equation and solution of a linear system of equations	97.35	93.45	3	2.99	3
		CO2	Fit a curve for the given data	49.21	90.31	2	2.87	2.17
		CO3	Find the Numerical solutions for a given first order initial value problem and evaluate definite integral numerically	86.77	83.76	3	2.87	2.97
		CO4	Learn Laplace Transform techniques and apply for solving ODE	67.20	56.54	2	2.21	2.04
		CO5	Understand the concepts of Gradient, Divergence and Curl of a Vector and scalar point functions	80.95	93.45	3	2.89	2.98
		CO6	Evaluate the line, surface and volume integrals	76.19	16.23	1	2.73	1.35
122AJ	DATA STRUCTURES	CO1	Determine and analyze the complexity of given algorithms	84.04	86.91	3	2.96	2.99
		CO2	Use basic data structures such as linked list, stack and queue	96.81	84.81	3	2.87	2.97
		CO3	Implement various kinds of searching and sorting techniques	93.62	69.63	3	1	2.6

		CO4	Design programs using advanced data structures like hash tables, binary trees, heaps and graphs	96.81	72.77	3	2.88	2.98
		CO5	Build and compare search trees and balanced search trees	92.55	86.38	3	2.84	2.97
		CO6	Choose appropriate data structures as applied to specified problem definition	0	97.90	0	3	0.6
121AC	BASIC ELECTRICAL ENGINEERING	CO1	Explain and analyze the magnetic and electric circuits	93.12	73.82	3	2.81	2.96
		CO2	Analyze the basic circuits with application of Network Reduction Techniques and Network Theorems	80.95	75.39	3	2.76	2.95
		CO3	Demonstrate the working principles of DC Electrical machines	92.59	93.19	3	3	3
		CO4	Demonstrate the working principles of transformers and various AC Machines	87.3	82.46	3	2.46	2.89
		CO5	Explain and analyze the magnetic and electric circuits	94.18	95.02	3	2.93	2.99

		CO6	Analyze the basic circuits with application of Network Reduction Techniques and Network Theorems	0	0	0	1	0.2
121AD	DESIGN THINKING	CO1	Understand the importance of various phases of Design Thinking	98.41	87.95	3	2.98	3
		CO2	Empathize with the customers and formulate specific problem statement	97.88	86.38	3	2.92	2.98
		CO3	Generate an idea through ideation techniques	99.47	87.43	3	2.98	3
		CO4	Understand various prototyping methods and Iterate solutions	97.88	89	3	2.98	2.99
		CO5	Understand innovation, and application of design thinking in various sectors	98.94	90.57	3	2.93	2.99
121AE	ENGINEERING GRAPHICS	CO1	Acquire proficiency in instrumental drawing and will be able to visualize the object, draw conic sections and cycloidal curves	95.74	72.77	3	2.79	2.96
		CO2	Draw and understand about orthographic projections of points, straight lines.	82.45	61.78	3	2.25	2.85

		CO3	Improve visualization skills in different types of planes and solids.	95.21	73.29	3	2.6	2.92
		CO4	Draw and understand about the development of surfaces of various solids	93.09	80.10	3	2.61	2.92
		CO5	Ability to read, understand and interpret engineering drawings	94.68	74.86	3	2.71	2.94
		CO6	Apply computer aided drafting tools to create objects	0	0	0	1	0.2

Process of Computing the Attainments:

Once the Course Outcomes are defined and are finalized for all courses of all programmes, they are assessed through various measurement tools and techniques. These tools are helpful to obtain the level of attainment of each Course Outcome (CO). For each course the faculty handling the course is deputed as the Course Coordinator. The senior faculty who is experienced in the related subjects is identified as Module Coordinator. The Department Assessment Committee (DAC) along with HOD and Module Coordinator will review the attainment of the courses.

Each Course is defined with 6 Outcomes. The CO attainment for a particular course is obtained by **80% of Direct CO Attainment (Internal and Semester End Examinations) and 20% of Indirect CO Attainment (Course End Survey).**

The Course Attainment for all the courses will be calculated including theory courses, laboratory courses. The detailed process of course Attainment calculation is explained in the Figure given below.

1. **Measuring CO Attainment for Theory Courses:**

Measuring CO attainment through Internal Examinations (Direct Assessment)

For example, the questions of Internal Examination-1 may relate to CO1, CO2 CO3 and CO4 and the questions of Internal Examination-2 may relate to CO4, CO5 and CO6. CO attainment is evaluated based on the questions that correspond to a particular CO. Each CO attainment evaluation is done by computing the average of the marks obtained by all the students for the questions that mapped to the corresponding CO.

For example Q1(a), Q1(c), Q1(d) of Part –A, Q.2, Q.3B of Part-B correspond to CO1.

To compute the average attainment of CO1, the percentage of marks obtained by each student for CO1 is calculated.

The percentage of attainment for each question is calculated for all the students in the class which is obtained by the formula:

Percentage of attainment (Question wise) = B / A * 100

Where A= Class Strength * Maximum marks for each question,

B = Marks scored by all students for each question.

The same process is done for each question addressing CO1.

Now, For CO1,

Percentage of the average value of CO1 (threshold for CO1) is calculated by

(**Total B/ Total A) *100*0.7**

Total B= Total marks obtained by all the students for the questions of CO1

Total A= Total maximum marks of all the questions of CO1

The value 0.7 is considered by simplifying 35/45 where the student has to answer for 35 marks out of 45 marks of question paper for internal exam.

Next, the number of students above the threshold value is taken and also the percentage of students above the threshold value for CO1 is calculated.

Similar process is done for other COs of Internal Examination-1 question paper.

The average value for all the course outcomes for two internal exams in a semester is calculated.

The attainment level is to be noted depending on the obtained average value as follows:

If the average CO attainment percentage falls under any one of the following category, then the attainment level is considered as shown:

Attainment Level is 0: if **less than 50%** of students score more than threshold value

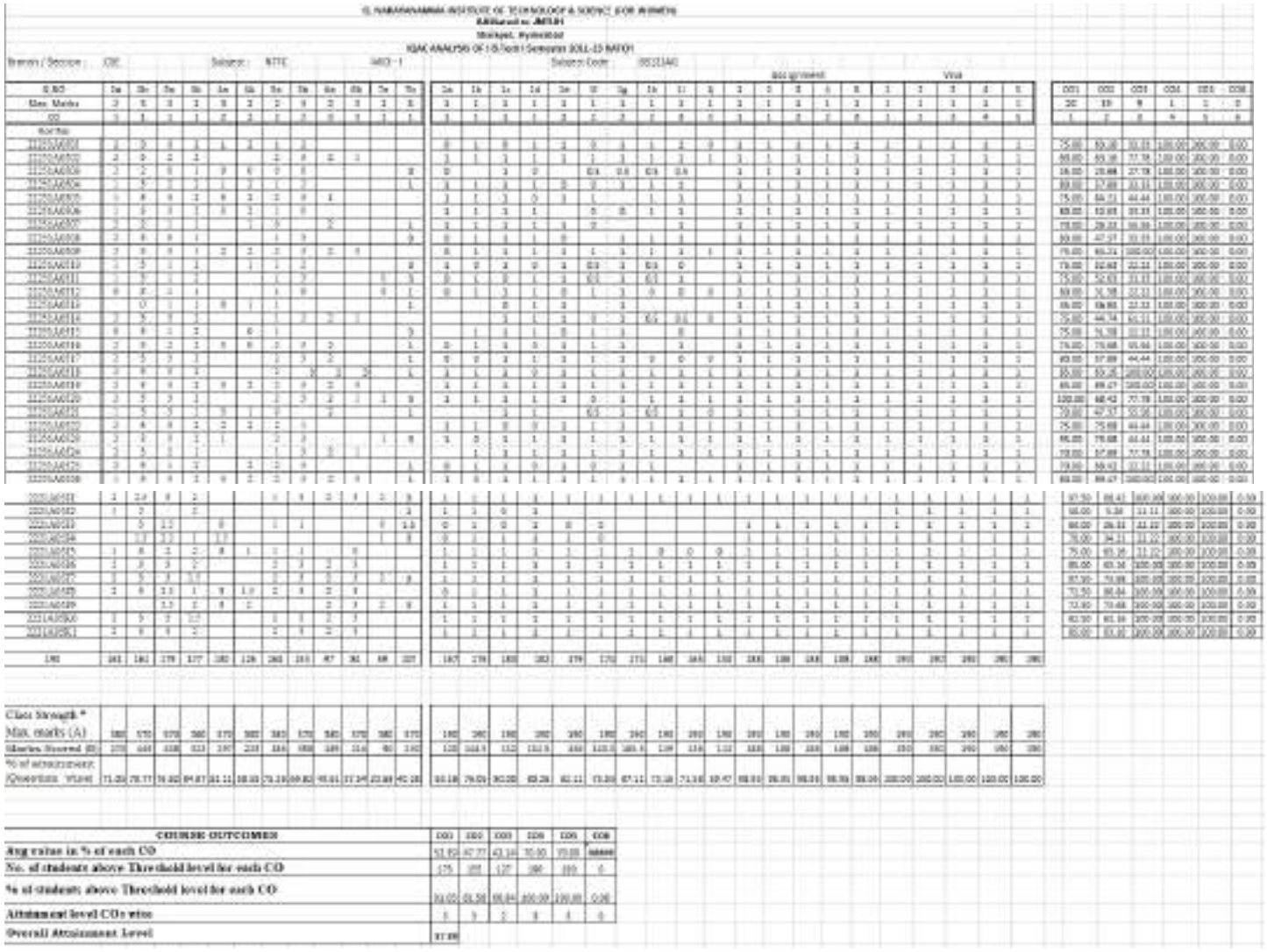
Attainment Level is 1: if **50% to 59%** of students score more than threshold value,

Attainment Level is 2: if **60% to 69%** of students scoring more than the threshold value

Attainment Level is 3: if **greater than or equal to 70%** of students score more than the threshold

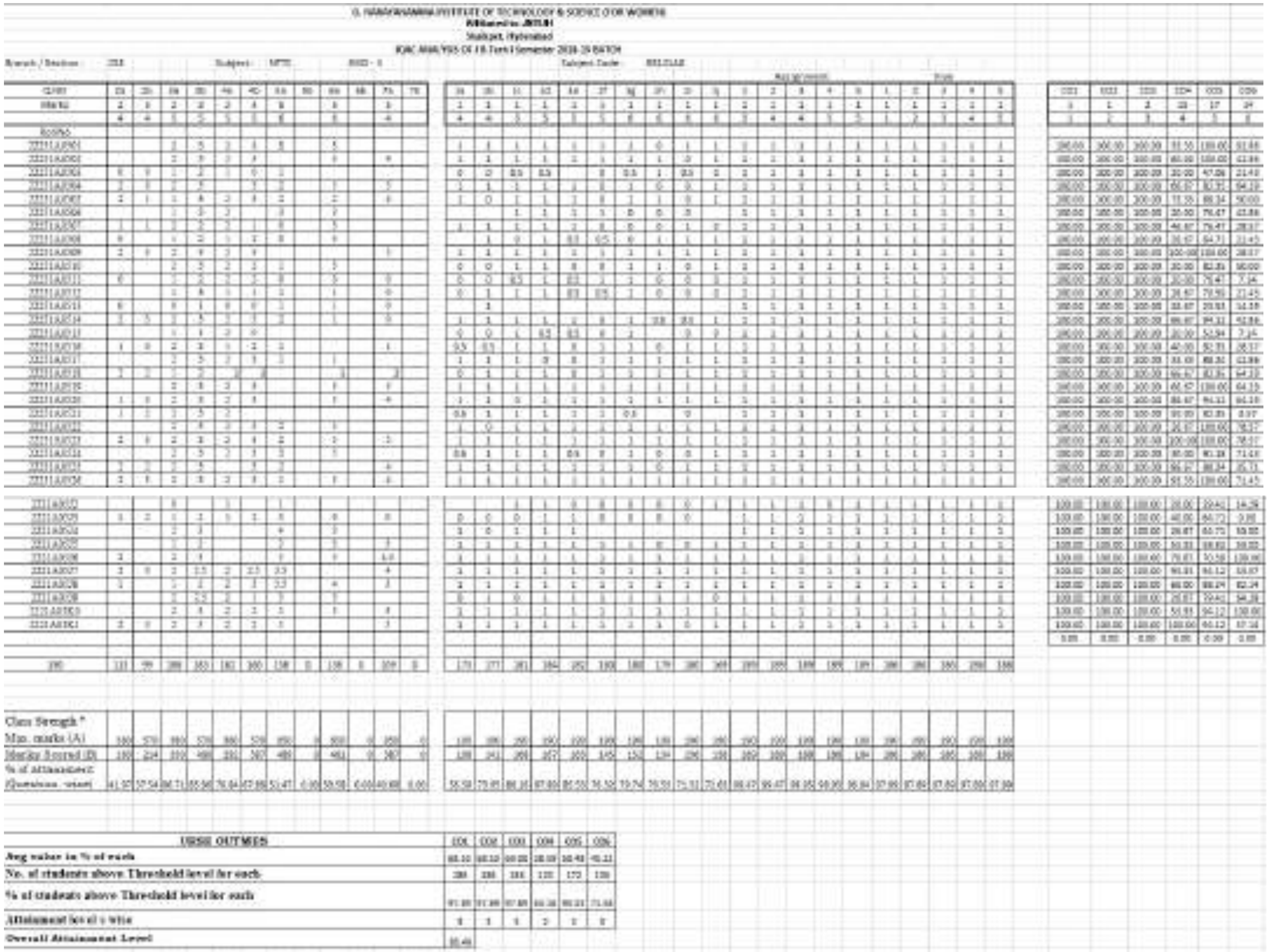
Value

Sample MID-I Attainment Process



COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6
Avg value in % of each CO	51.85	47.77	43.14	70.00	70.00	*****
No. of students above Threshold level for each CO	175	155	127	180	180	0
% of students above Threshold level for each CO	94.05	83.34	68.64	100.00	100.00	0.00
Attainment level CO is wise	1	1	2	3	3	0
Overall Attainment Level	11.00					

Sample MID-II Attainment Process



Measuring CO attainment for Semester End Examinations (Direct Assessment):

For calculating CO attainment for semester end (external) examinations, the same process is followed as internal examinations. The CO-wise attainment is calculated even for semester examinations by considering the threshold value for each course outcome. The threshold value for each Course Outcome is fixed by the programme assessment committee, for example 60% of the total marks allotted for all the questions belong to a particular Course Outcome.

For example, for CO1,

Threshold is fixed and normalized as 60% of the marks * 0.5. The value 0.5 is considered by simplifying 60/120 where the student has to answer for 60 marks out of 120 marks of question paper for semester end examination. This process is adopted as all the students are considered irrespective of the students attempted the questions or not attempted the questions; in finding the number of students crossed the threshold value.

Measuring CO Attainment through Course End Survey (Indirect Assessment):

The course end survey is done for each course by collecting the students' opinion related to course outcomes through ratings for the questionnaire provided. The questionnaire is prepared related to course outcomes to know about the abilities of the students in achieving the course outcomes. The ratings will be as follows:

3- Strong 2- Moderate 1- Weak

The average of ratings for each course outcome is calculated. This is the indirect attainment for course end survey of each course outcome.

Measuring Final CO attainment for each Course:

The Final CO wise attainment is calculated by considering the 80% of CO-wise Direct Attainment and 20% of CO-wise Indirect Attainment. The average attainment of each course outcome attainment is considered as **Final Course Attainment** for a course.

2. **Measuring CO Attainment for Laboratory Courses:**

The CO Attainment for Laboratory Courses is calculated by 80% of Direct Assessment and 20% of Indirect Assessment. Direct Assessment is done through 40% of Internal Assessment and 60% External Assessment. Indirect Assessment is done through course end survey at the end of semester.

Procedure for calculating CO Attainment for Laboratory Courses (Direct Assessment):

The Direct Assessment of laboratory courses is done with Continuous Internal Evaluation and Semester End Examination. The continuous internal evaluation is for 40 marks and Semester end examination is for 60 marks. The continuous internal evaluation is marketed under 20 marks of day to day evaluation and 20 marks for internal examination.

To calculate CO-wise attainment for laboratory course, the below steps are followed:

1. The day to day evaluation of each experiment of laboratory course is evaluated for 20 marks each student of the class. The internal exam is evaluated out of 20 marks and the semester end examination marks out of 60 were considered for all the students of the class after getting the semester results.
2. The average class marks for day to day evaluation of all the experiments, internal examination, semester end examination are considered as Threshold value for calculating the attainment.
3. The percentage of students above Threshold value is considered for determining the attainment level for all the experiments, internal examination and semester end examination as shown in the Table given below.

Table Range for defining the Course Attainment Level

Description	Range	Attainment Level
Not attained	<50	0
Weak	>=50 & <60	1
Moderate	>=60 & <70	2
Strong	>=70	3

1. The experiments are mapped across the related course outcomes and the obtained attainment level is noted for all the course outcomes that are mapped for all the experiments.
2. The obtained attainment levels for internal and semester end examinations are marked for all the course outcomes.
3. The CO wise direct attainment level is calculated as follows:

For example

CO Attainment = 20% of Average of CO attainment for day to day evaluation +

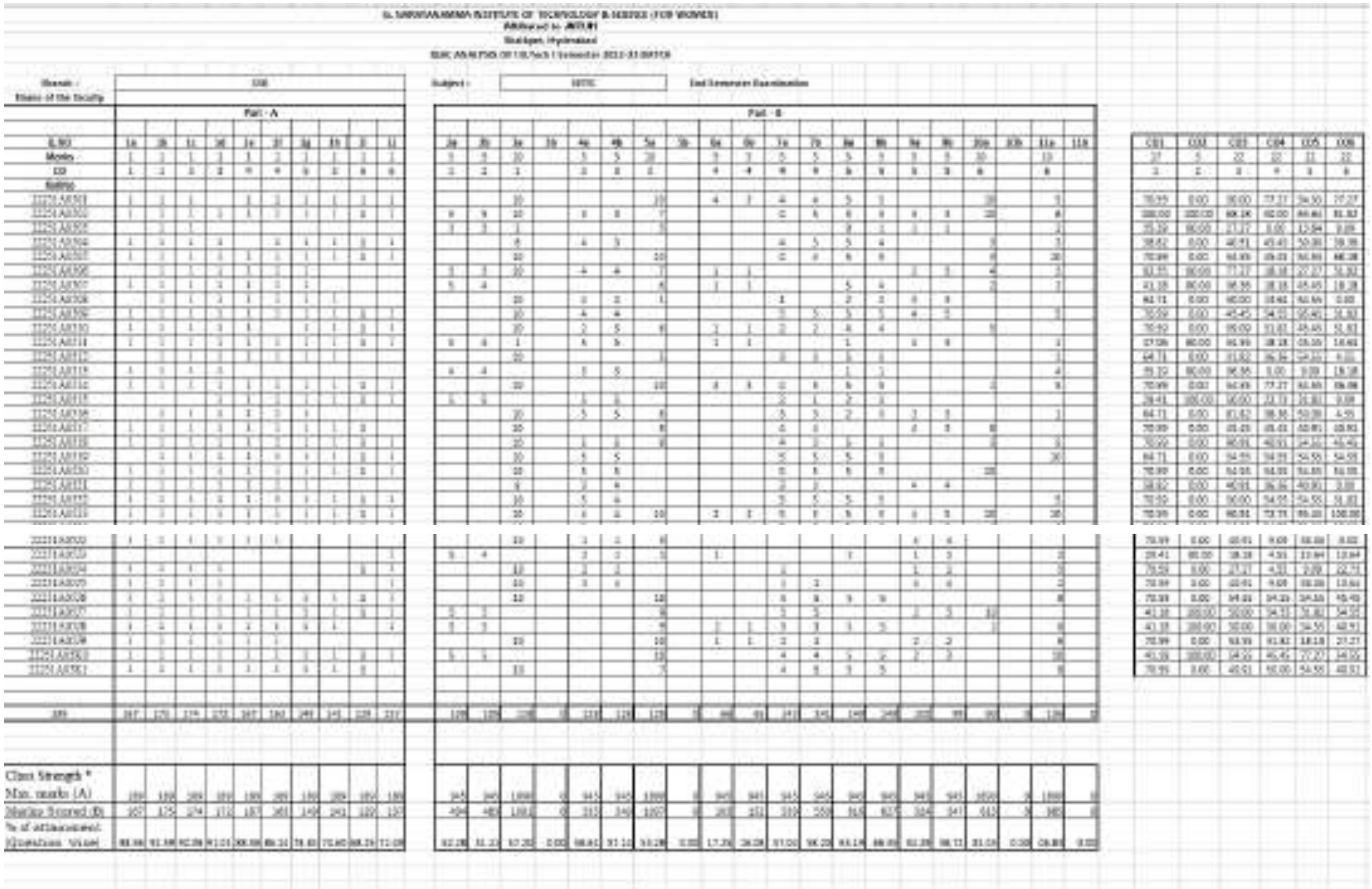
20% of CO attainment for Internal Examination +

60% of CO Attainment of Semester End Examination

The procedure for calculating indirect attainment (course end survey) is same as for Theory Courses.

The final CO Attainment is calculated with 80% of direct attainment and 20% of indirect attainment.

Semester End Examination Attainment



COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6
Avg value in % of each CO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
No. of students above Threshold level for each CO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
% of students above Threshold level for each CO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Attainment level COs wise	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Overall Attainment Level	[illegible]					

Laboratory Attainment

G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
DEPARTMENT OF BASIC SCIENCES
LAB ASSESSMENT

Academic Year: 2022-23 Name of the Lab: Applied Physics Lab Year & Semester: I Year I Semester Branch: ETM Name of the Faculty: Dr. S. Uday Bhaskar

Roll No.	Experiment 1					Experiment 2					Experiment 3					Experiment 4					Experiment 5				
	E	O	V	R		E	O	V	R		E	O	V	R		E	O	V	R		E	O	V	R	
22251A0701	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20
22251A0702	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20
22251A0703	5	4	5	5	19	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	19
22251A0704	4	4	4	4	16	4	4	4	4	16	4	4	4	4	16	5	4	5	5	17	4	4	4	4	16
22251A0705	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20
22251A0706	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19
22251A0707	4	4	4	4	16	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17
22251A0708	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19
22251A0709	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17
22251A0710	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18
22251A0711	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	4	4	4	4	16
22251A0712	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19
22251A0713	4	4	4	4	16	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17
22251A0714	5	4	5	5	19	5	4	5	5	18	5	4	5	5	18	5	4	5	5	19	5	4	5	5	19
22251A0715	4	4	4	4	16	4	4	4	4	16	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17
22251A0716	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17
22251A0717	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18
22251A0718	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19
22251A0719	5	4	5	5	18	5	4	5	5	18	5	4	5	5	19	5	4	5	5	19	5	4	5	5	18
22251A0758	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17	5	4	5	5	18
22251A0759	5	4	5	5	19	5	5	5	5	19	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20
22251A0760	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19
22251A0761	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19	5	4	5	5	19	5	5	5	5	20
22251A0762	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20
22251A0763	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	18
Class Average Mark					19					18					19					19					19
No. of Students scored > Average Mark					51					50					51					51					46
% Students					83					80					81					81					73
Attainment					3					3					3					3					3

Roll No.	Experiment 6					Experiment 7					Experiment 8					Experiment 9					Experiment 10					D2D	Mid	Internal	Total
	E	O	V	R		E	O	V	R		E	O	V	R		E	O	V	R		E	O	V	R					
22251A0701	5	4	5	5	19	5	4	5	5	19	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19	20	19	58	97
22251A0702	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	20	20	58	98
22251A0703	5	4	5	5	18	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	19	17	38	74
22251A0704	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	17	12	47	76
22251A0705	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	20	18	55	93
22251A0706	5	4	5	5	19	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	5	4	5	5	19	20	20	58	98
22251A0707	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	17	15	0	38
22251A0708	5	4	5	5	19	5	4	5	5	19	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	18	17	57	92
22251A0709	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	18	14	56	88
22251A0710	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17	5	4	5	5	17	18	14	50	82
22251A0711	5	4	5	5	17	5	4	5	5	17	4	4	4	4	16	5	4	5	5	17	5	4	5	5	17	17	13	57	87
22251A0712	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	18	19	56	94
22251A0713	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	17	13	46	76
22251A0714	5	4	5	5	18	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19	5	4	5	5	18	18	17	46	81
22251A0715	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	5	4	5	5	17	17	15	54	88
22251A0716	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17	18	16	51	85
22251A0717	5	4	5	5	18	5	4	5	5	17	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	18	18	57	93
22251A0718	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	5	4	5	5	19	18	14	52	85
22251A0719	5	4	5	5	19	5	4	5	5	18	5	4	5	5	19	5	4	5	5	18	5	4	5	5	18	19	18	50	85
22251A0758	5	4	5	5	18	5	4	5	5	18	5	4	5	5	18	5	4	5	5	17	5	4	5	5	18	18	14	50	78
22251A0759	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	20	15	55	88
22251A0760	5	4	5	5	19	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	5	5	5	5	20	20	17	59	96
22251A0761	5	5	5	5	20	5	5	5	5	20	5	4	5	5	19	5	4	5	5	19	5	5	5	5	20	20	18	59	99
22251A0762	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	5	4	5	5	19	5	5	5	5	20	20	18	48	84
22251A0763	5	4	5	5	18	5	4	5	5	18	5	4	5	5	19	5	4	5	5	18	5	4	5	5	18	19	11	49	79
Class Average Mark					18					18					18					18					18	18.714	15.619	43.4444	85.7778
No. of Students scored > Average Mark					49					51					52					50					44	55	40	41	42
% Students					78					81					83					79					78	87.302	63.4921	65.139	66.6667
Attainment					3					3					3					3					3	3	3	2	2

CO	Exp 1	Exp 2	Exp 3	Exp 4	Exp 5	Exp 6	Exp 7	Exp 8	Exp 9	Exp 10
CO1	3	3	3	3	3	3	3	3	3	3
CO2	3	3			3		3		3	3
CO3				3			3	3		
CO4				1	3	3		3		
CO5	3	3				3				3
CO6			3		3	3			3	

OVERALL LABORATORY ATTAINMENT LEVEL Weightage

	Weightage	ASSESSMENT	ATTAINMENT
Experiments	0.2	<50%	0
Internal Exam	0.2	>=50% and < 60 students attained	1
University exam	0.6	>=60 - <70% students attained	2
		>=70% students attained	3

Indirect Attainment

Indirect attainment for 2022-23 Batch

Branch: CSE
Subject: APPLIED CHEMISTRY

S. No	Roll No	CO1	CO2	CO3	CO4	CO5	CO6
1	22251A0501	3	2	3	3	3	2
2	22251A0502	3	3	3	3	3	3
3	22251A0503	3	1	2	1	3	1
4	22251A0504	3	3	3	3	3	3
5	22251A0505	3	3	2	3	3	3
6	22251A0506	3	3	2	3	3	2
7	22251A0507	3	3	2	2	3	3
8	22251A0508	3	2	3	3	3	3
9	22251A0509	3	3	3	3	3	3
10	22251A0510	3	3	3	3	3	3
11	22251A0511	3	2	2	3	3	3
12	22251A0512	3	3	3	3	3	2
13	22251A0513	1	3	1	2	3	3
14	22251A0514	3	3	3	3	3	3
15	22251A0515	3	1	1	3	3	2
16	22251A0516	3	3	2	3	3	1
17	22251A0517	3	3	3	2	3	3
18	22251A0518	3	3	3	3	3	3
19	22251A0519	3	3	3	3	3	3
20	22251A0520	3	3	3	3	3	2
21	22251A0521	3	2	3	3	3	2
22	22251A0522	3	2	3	3	3	3
23	22251A0523	3	3	3	3	3	3
169	22251A05H0	3	3	3	3	3	3
170	22251A05H1	3	3	3	3	3	3
171	22251A05H2	3	3	2	1	3	2
172	22251A05H3	3	3	1	3	3	1
173	22251A05H4	3	3	3	3	3	3
174	22251A05H5	1	1	1	3	3	2
175	22251A05H6	3	3	3	3	3	2
176	22251A05H7	3	3	1	3	3	3
177	22251A05H8	3	3	3	3	3	3
178	22251A05H9	3	2	1	2	3	3
179	22251A05J0	3	3	3	3	3	1
180	22251A05J1	3	3	3	3	3	3
181	22251A05J2	3	1	1	2	2	2
182	22251A05J3	2	1	1	2	1	2
183	22251A05J4	3	2	1	3	3	1
184	22251A05J5	3	2	1	3	3	3
185	22251A05J6	3	3	3	3	3	2
186	22251A05J7	3	3	3	3	3	3
187	22251A05J8	3	3	3	3	3	3
188	22251A05J9	3	3	3	3	3	3
189	22251A05K0	3	3	3	3	3	3
190	22251A05K1	3	3	3	3	3	3
		2.934783	2.865546	2.482185	1.957983	2.882353	2.428166

8.5 Attainment of Program Outcomes from first year courses (20)

Total Marks 20.00

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Institute Marks : 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	2.50	2.50	2.08	1.53	1.53	1.67	1.39	PO8	PO9	PO10	1.39	1.67
C102	1.35	1.52	1.35	1.52	1.52	1.18	1.35	0.84	1.35	1.69	1.35	0.84
C103	2.43	2.43	0.81	0.95	1.30	PO6	PO7	PO8	PO9	PO10	PO11	1.35
C104	1.68	1.54	1.68	1.68	PO5	PO6	PO7	PO8	1.68	PO10	PO11	PO12
C105	1.43	0.71	1.28	0.71	0.86	1.57	0.71	1.00	0.71	1.00	0.71	0.71
C106	0.84	0.84	0.98	0.84	0.49	PO6	PO7	PO8	0.84	PO10	PO11	PO12
C107	2.93	2.93	2.44	1.95	PO5	PO6	PO7	PO8	PO9	PO10	1.95	1.95
C108	1.65	1.65	1.65	1.37	1.10	1.24	1.37	0.82	0.82	1.65	1.32	1.51
C109	1.95	1.67	2.51	PO4	1.67	1.39	1.26	PO8	PO9	PO10	PO11	1.39
C110	2.26	1.48	1.69	2.12	1.52	1.02	PO7	0.85	0.85	0.85	PO11	1.55
C111	1.61	PO2	PO3	PO4	1.61	1.29	1.61	1.41	1.34	2.41	PO11	2.41
C112	2.52	2.52	2.38	0.84	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.84
C113	2.42	1.88	PO3	PO4	PO5	PO6	PO7	PO8	1.61	PO10	PO11	0.81
C114	1.55	1.37	1.72	1.72	0.69	2.06	0.69	PO8	PO9	PO10	PO11	0.92
C115	0.30	0.30	0.26	0.30	0.39	0.33	0.33	0.20	0.39	0.20	PO11	0.39
C116	PO1	PO2	0.72	0.96	1.79	0.96	0.72	1.08	1.79	2.15	1.79	2.15
C117	2.13	2.13	2.01	0.83	1.42	PO6	PO7	PO8	PO9	PO10	PO11	0.71

PO Attainment Level

PSOs Attainment:

Course	PSO1	PSO2
C101	2.00	1.67
C102	0.84	0.84
C103	1.22	1.08
C104	1.26	PSO2
C105	1.14	PSO2
C106	0.67	PSO2
C107	1.47	1.47
C108	0.82	PSO2
C109	0.84	1.26
C110	0.85	0.85
C111	PSO1	0.80
C112	1.68	1.68
C113	1.48	PSO2
C114	0.69	1.03
C115	0.20	0.20
C116	PSO1	0.72
C117	1.42	1.54

PSO Attainment Level

Course	PO1	PO2
Direct Attainment	1.11	1.10
PSO Attainment	1.11	1.10

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Institute Marks : 10.00

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.2	1.85	Target has been achieved for PO1
Assignments were given for practice for gaining conceptual knowledge in Engineering.			
PO 2 : Problem Analysis			
PO 2	1.2	1.70	Target has been achieved for PO2
Tutorial classes were conducted for problem solving on all Engineering applications.			
PO 3 : Design/development of Solutions			
PO 3	1.2	1.57	Target has been achieved for PO3
Awareness programmes and practical sessions were conducted on design and development of solutions.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.2	1.24	Target has been achieved for PO4
Provided various real time problems in assignments to solve complex problems in Engineering.			
PO 5 : Modern Tool Usage			
PO 5	1.2	1.22	Target has been achieved for PO5
Provided various platforms for understanding the usage of modern tools in understanding the engineering concepts.			
PO 6 : The Engineer and Society			
PO 6	1.2	1.27	Target has been achieved for PO6
Various awareness programmes were organized to make the students understand the connection between societal needs and engineering applications.			
PO 7 : Environment and Sustainability			
PO 7	1.2	1.05	C105-Students found difficulty in understanding the concepts and importance of sustainability. C116- The course has no direct correlation with the concerned Po and hence the low attainment level. C114-The curriculum lacks sufficient practical application opportunities and hands-on experiences
C105-Provided societal based examples during the explanation to improve the concentration towards the learning. C116 - The course plan has been designed to include the concepts of sustainability and environmental consciousness to achieve the target levels. C114-Encourage the students for hands-on learning experiences, group projects, case studies for understanding the sustainable development.			
PO 8 : Ethics			
PO 8	1.2	0.88	C102&C108-Students experienced difficulty in committing the ethical guidelines in the practical classes. Since it is based on both individual and group activity, some of them were not involved. C105-Students experienced difficulty in committing the ethical guidelines in the practical classes. C116- The course has no direct correlation with the concerned Po and hence the low attainment level.
Remedial classes has been conducted C102,C105&C108-Specific rubrics to clearly analyze the individual contribution towards the work completion motivated the students to learn ethical behavior in practice. C116 - The course plan has been designed to include the concepts of ethics and values to achieve the target levels.			
PO 9 : Individual and Team Work			
PO 9	1.2	1.14	C104-Students felt tough to deal with programming fundamentals. C105 & C108- Since it is based on both individual and group activity, some of them were not involved. C106-The students felt tough to deal with programming fundamentals.
C104-Utilizing pedagogical methods such as Think-Share-Pair, peer learning, and role playing facilitates both individual and team work skills among students. C105-Specific rubrics to clearly analyze the individual contribution towards the work completion. C108-Implementing learning by doing concept. C106-Utilizing pedagogical methods such as Think- Share-Pair, peer learning, and role-playing facilitates both individual and teamwork skills among students.			
PO 10 : Communication			
PO 10	1.2	1.42	Target has been achieved for PO10
students were trained on communication skills in their lab sessions for better sharing of their knowledge.			
PO 11 : Project Management and Finance			
PO 11	1.2	1.42	Target has been achieved for PO11
Provided sessions on financial management for executing the project with in the limitations.			
PO 12 : Life-long Learning			
PO 12	1.2	1.28	Target has been achieved for PO12
Conducted classes on understanding the real time situations and solving the problems using their practical knowledge.			

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Research Activities: Develop abilities to successfully analyze, execute and synthesize hardware and software oriented mini and technical major projects in identified specializations and areas of interest, and enrich industry compatibility.			
PSO 1	1.2	1.11	C102,105&108- Lack of direct correlation with the concerned PSO. C110-students should have strong foundation in Physics leading to analyze communication engineering applications C114-Due to insufficient practical application oppurtunities with industry demands C109-Lack of direct correlation with the concerned PSO C109-Lack of direct correlation with the concerned PSO
C102-Students are encouraged to participate in intercollegiate events, competitions, Hackathons, Ideathons, Sustainathons to upgrade their knowledge and solve related problems. C104-Encourage student participation in workshops and utilize platforms like Codetantra to enhance problem solving abilities. C105&C108-Students are encouraged to participate in intercollegiate competitions, workshops, Seminars, symposium, and conferences to upgrade their knowledge and solve related problems. C110-Evaluate the students for existing curriculum to ensure that it adequately covers foundational physics concepts relevant to telecommunication networks. C109-Enhancing teaching methodologies and resources, and continuously monitoring and revising assessment methods. C106-Encourage student participation in workshops and utilize platforms like Codetantra to enhance problem-solving abilities. C114-Updating equipment and facilities developing new experiments that reflect industry practices.			
PSO 2 : Professional Outlook: Establish a good knowledge sharing network and peer connectivity through Professional Society Memberships, Conduct of seminars, Technical Events and Conference Paper Presentations, and earn prominence.			
PSO 2	1.2	1.10	C102-Lack of direct correlation with the concerned PSO C116- The students are unable to understand the relevance of English and its application in the core areas of their profession. C109-Lack of direct correlation with the concerned PSO C114-Due to insufficient practical application oppurtunities with industry demands C103- Students experienced difficulty in establishing the connectivity between usage of mathematical tools in engineering applications. C111- The students are unable to understand the relevance of English and its application in the core areas of their profession. C110- Design a curriculum that integrates technical coursework with modules focused on soft skills development.
C102-Students are encouraged to participate in intercollegiate events, competitions, Hackathons, Ideathons, Sustainathons to upgrade their knowledge and solve related problems. C104-Recommended to implement care studies with relevant core technologies. C116- The students are encouraged to take part in various co curricular and extra curricular activities by developing their confidence through presentations. C111- The students are encouraged to take part in various co curricular and extra curricular activities by developing their confidence through presentations. C103- The students are guided to establish a peer group in understanding and solving the problems sheets using mathematical tools. 106- Recommended to implement sample case studies with relevant core technologies C109-Enhancing teaching methodologies and resources, and continuously monitoring and revising assessment methods. C114-Updating equipment and facilities developing new experiments that reflect industry practices. C110-Practice explaining complex concepts in simple terms, as effective communication is essential when translating physics knowledge into practical applications.			

9 STUDENT SUPPORT SYSTEMS (50) Total Marks 50.00

9.1 Mentoring system to help at individual level (5) Total Marks 5.00

Institute Marks : 5.00

9.1 Mentoring system to help at Individual Level

A. Details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system (5)

The main goal of GNITS is to give students Specialised Skills, support their Overall Growth and increase their Employability. The Institution offers a well-organized Mentor-Mentee Programme which provides the students with practical and emotional support, motivation, and a welcoming environment. Mentors (Faculty members) are essential to a Mentee's (students) development and have a favourable effect on both their perseverance and academic success. Mentees can ask their Mentors for both academic and personal advice through the Programme.

- Each Mentor is assigned 15 to 19 Mentees.
- In the first year, Mentors are allocated from the first year departments.
- In the Second year, Mentors are allocated from the specific Departments, guaranteeing a steady support structure throughout their course of study.

Process of Mentoring

- Each Mentee is exclusively provided a Counselling Record book at the beginning of I year
- The Counselling Record is maintained by the designated Mentor from Humanities & Management as well as Basic Sciences Departments.
- As students progress to II Year, the Counselling Records of every student is sent to the Counselling in-charge of the concerned Department.
- The departments Counselling in-charge assigns a group of 15-19 Mentees to the Mentors in the Department.
- Copies of the student counselling allotment, which includes roll numbers, names, and parent contact information, are forwarded to Mentors
- The counselling allotment is posted on the notice board for the benefit of the Mentees.
- Mentors receive the Counselling Records of their Mentees from the Counselling in-charge.
- Mentees meet their Mentor periodically.
- Mentee's Monthly Attendance, Mid-term Grades, End Semester CGPA, extracurricular and co-curricular activities are documented in the respective Counselling Records for each semester.
- If there are any issues related to Academics, Career or health, the Mentor provides helpful advice to the Mentee.
- In case Mentee faces any Psychological issues, she will be sent to in-campus Certified Psychologist to take corrective measures.
- At the end of each Semester, Mentors submit the Counselling Reports of their Mentees to the Department Counselling In-charge.
- The Counselling In-charge submits the Counselling Records to the Head of Department (HOD).

The responsibilities of a mentor are diverse and extend beyond a fixed list. While the mentioned functions are essential, mentors are encouraged to go above and beyond to ensure the well-being and success of their mentees.

Mentor Responsibilities

- To conduct meetings with the assigned Mentees, at least Twice in a semester.
- To maintain records of Mentee's personal information, including addresses, contact numbers, and academic progress, to monitor their growth effectively.
- To motivate Mentees to be regular and to improve their Academic performance and Health.
- To initiate communication with parents/guardians when necessary, such as addressing academic irregularities, behavioural changes, interpersonal issues, or harmful activities.
- To offer professional and career guidance to Mentees, assisting them in their career development.
- To continue contact with students even after their graduation.
- To bring any issues during counselling to the notice of HOD and suggest appropriate administrative actions if required.
- To maintain a comprehensive and progressive record of each Mentees development.
- To offer professional guidance on setting professional goals, career choices, and pursuing higher education.
- To support Mentees in exploring self-employment opportunities and entrepreneurship while promoting values like integrity and honesty for career growth.
- To provide guidance in reaching the goals of students.
- To take support from the in-campus Psychologist if and when required to assist Mentees with any of their psychological issues.

Mentee Responsibilities

- To regularly attend meetings with the Mentor as scheduled.
- To provide necessary personal information upon joining the Mentor-Mentee system.
- To share details of attendance, continuous assessment, examination results, as well as co-curricular and extra-curricular activities with the Mentor, when requested.
- To trust the Mentor and seek advice whenever needed.

There is a counselling committee at the college level headed by the in-campus Psychologist, Mrs. V.Jahnavi, MSc Psychology, for the emotional counselling of Mentees.

Functions of the Counselling Committee at Institute Level

- To ensure the availability of Counselling service as and when required to the Mentees.
- To help Mentees cope with the fast-paced changes in the stressful modern lifestyle and enable them to solve their concerns on their own through Counselling and Guidance.
- To provide assistance to Mentees to work on social and emotional development that will impact their productivity in their work life.
- To conduct 2 awareness sessions every year, one for the first-year students during Induction programme and one for the senior students, in addition to the regular counselling and guidance by the Mentor.
- To collect feedback from the Mentee participants and analyse the same to ascertain the impact.

Fig. 9.1.1 shows the stages of Counselling process.

Fig. 9.1.1 Counselling Process

Fig. 9.1.2 Speech by Dr Vinesh on Mindset Matters Unlocking your Potential on World Mental Health Day 10-10-2023

Fig. 9.1.2 is a picture form interaction of students with Dr Venesh during speech on World Mental Day 10-10-2023.They had given the key points on how to handle stress, depression and how to have good mental health.

Fig. 9.1.3 Counselling of Student by Mrs V.Jahnavi , trained psychologist

Fig. 9.1.3 shows counselling of a student sent by trained psychologist for better mental health. Table 9.1.1 shows the summary of mentoring of students for each academic year by trained psychologist. Student names are encrypted for privacy reasons. The result of this mentoring was improvement of academic performance and getting job in companies/industries in campus placements.

Table 9.1.1. Summary of mentoring of students by trained psychologist

Sl. No.	Name of the Mentee	Branch/ Batch	Problem	Efficacy
Academic Year 2021-2022				
1.	KM	ETE 2021-25	Poor performance in academics, distracted due to family issues. No focus. Vulnerable to easy influences	Counselled to develop resilience in academic pursuits. Monitored the progress. Helped with the emotional issues. She is showing steady improvement.
2.	Sh. A	ETE 2020-24	Academic struggles, difficulty understanding concepts, poor grades, lack of motivation	Helped develop confidence to believe in herself. Guided to break tasks into manageable steps, seek help from peers or faculty, utilize different learning strategies, and to stay persistent. Monitored performance.

3.	KD	EEE 2020-24	Financial problems. Studies well. Planned to go back and join a college in hometown. Single parent	Approached the Management. Given 50% concession in hostel fee till course completion. Spoke to mother. She secured a good placement
4.	Tj	ECE 2020-24	Low confidence, aggressive parenting, failed in multiple interviews, giving up hope	With Cognitive Behavioural Therapy guided in confidence building, edited her resume, helped review her performance in interviews. Secured placement with paid internship
5.	MD	ECE 2018-22	Depression history, panic attacks in labs, self- harm, suicidal tendencies	Called parents, apprised them of the severity, advised Psychiatric treatment with medication. Completed the course in time
6.	LB	ECE 2020-24	Unexpected backlog with shortlist in placement process. Anxiety about losing opportunity	Guided to stay motivated and resilient. Supported her through the revaluation and supplementary exam phase. She secured good placement with high salary package
7.	GB	IT 2021-25	Health problems, Acute PCOD, Less attendance, poor academics, threat of semester detention	Sent to Physical Directoress – helped with dietary changes, exercise and monitoring. Showing steady improvement
8.	PUR	CSE 2021-24 (LE)	Stress and anxiety, due to academic pressure, exams and social situations post COVID	Counselled to prioritize tasks, seek support, communicate with faculty, practice self-care and set realistic goals. Observed improvement
Academic Year 2022-2023				
1.	B R	ECE 2022-26	Stammer and associated low confidence. Wanted to quit the course	Focused on improving speech fluency in English lab, addressing the underlying emotions, building self-esteem.
2.	A J	IT 2019-23	Fear of Interviews. Performs very well in other rounds. Gets very anxious just before interviews	Provided support with strategies and techniques of confidence-building. Offered a safe space to explore anxieties, develop coping skills, and enhance self-assurance for successful interviews.
3.	SL	CSE 2021-25	Loneliness & isolation. Wanted to go back to hometown and join a college there.	Offered support, coping strategies & connection-building skills. Helped to explore the underlying emotions to foster meaningful relationships and improve well-being.
4.	PS	EEE 2022-26	Academic pressure. Rural background, low exposure. Worried about future. Unable to focus on academics.	Helped with ways of bridging educational gaps, accessing resources, and fostering confidence and resilience in academic pursuits. Showed marked improvement.
5.	IR	IT 2019-23	Depression after father's death during COVID19. Irregular to the college	Provided a safe space for grief processing, coping mechanisms, emotional support, and rebuilding a sense of purpose and resilience
6.	TJ	ETE 2022-26	Financial problems. Not able to focus. Wanted to quit the course and take up a job to help parents	Helped her explore financial aid options like seeking educational loan from banks. Built confidence and resilience to sustain till the completion of the course. Secured a good placement offer.
7.	BA	IT 2019-23	Depressed due to relationship issues.	Suggested setting relationship boundaries and focussing on academics as prime importance. Was helped with coping mechanisms.
8.	Md. S	ECE 2019-23	Unable to cope up with academics. Overwhelmed feelings and panic attacks.	Guided with relaxation techniques, stress management strategies, cognitive restructuring, and time management skills to alleviate anxiety and enhance academic performance.
Academic Year 2023-2024				
1.	DP	ECE 2023-27	Telugu medium. Low confidence Financial problems. Couldn't focus on academics due to situations at home	Counselled to develop mindfulness. Acknowledged her every small achievement. Gave awareness on the resources to bridge gaps in academic pursuits. Spoke to her elder sister who is working as nurse. Showing slow but steady progress
2.	AP	ECE 2022-26	Father approached, worried about her irregularity and poor performance. Less disclosure during counselling	Identified excessive usage of cell phone. Addicted to the level of bunking classes. Many sessions of counselling on mindfulness, goal setting, realization and focus on academics. Father is observing improvement

3.	DR	ETE 2021-25	Engineering not choice, so no effort and focus, Irregular to classes, skipped exams, Parents approached	Counselled to realize the importance of lost time, goal setting, and personal growth. She assured the parents in the presence of the Counsellor to work hard. Is observed to be seriously trying for internship opportunities. Improving in academics
4.	LI	CSM 2020-24	Depression. Could not get placed. Low exposure. Failed in multiple interviews. Lost confidence and hope in securing placement.	Used Cognitive Behavioural Therapy. Provided support with strategies and techniques of confidence-building. Offered a safe space to explore anxieties, develop coping skills, and enhance self-assurance for successful interviews.
5.	SP	EEE 2023-27	Abandoned by parents after refusing child marriage. Stayed in orphanage run by Yadadri Collectorate. Emotional and financial issues	Tuition fee and hostel fee wavered for all 4 years. Reassured about the safe place that she is in right now. Slowly socializing with classmates and hostel friends. Reasonably good academics. Is trying hard to cope up
6.	Sh.S	ECE 2023-27	Father's death, financial problems, 3 hours a day teaching tuition, No time to study, depressed with multiple issues	With the help of colleagues, the Counsellor provided all the textbooks, Calculator, lab apron etc. Faculty are willing to pool-in and provide her a laptop. She feels reassured and is able to study well. Counsellor is helping in coping up.

Students Counselling/Mentoring

The Data recorded in Mentee Counselling Report is as follows:

- · Parent communication details
- · Monthly attendance
- · Marks for each Theory Course/ Lab Course in every semester (Internal & Semester End Exams)
- · CGPA
- · Extra & co-curricular activities
- · Achievements such as prizes, awards, appreciation
- · Ranks in competitive exams like GRE, TOEFL, GATE,
- · Placement details

This information serves as a basis for future communication and guidance. Fig. 9.1.4 to 9.1.6 shows the pictures of a few pages in counselling record a student.

Fig. 9.1.4 Cover page of Mentee Counselling Record

Fig. 9.1.5 Last page of **Counselling Record**

Fig. 9.1.6 Counselling Record of student showing placement details

Fig. 9.1.7 shows Mentor-Mentee allotment in 2022-2023 II-Semester in the Department of ECE.The allotment includes students from II,III and IV years.

Fig. 9.1.7 Counselling Allotment of students to Faculty during 2022-2023 sem-II

Fig.9.1.8 shows the counselling summary at the end of the semester.

Fig. 9.1.8 shows the counselling summary at the end of the semester.

Mentor-Mentee Ratio

The Department Counselling in-charge assigns a maximum of 19 Mentees to each Mentor for efficient, simple, and seamless counselling.

ECE Departments Mentor-Mentee ratio of academic year 2020 to 2024 and semester is listed below Table 9.1.2.

Table 9.1.2 Mentor-Mentee Ratio of ECE Department from 2020 to 2024

Academic Year	Semester	Mentor to Mentee ratio
2020-2021	I	1:19
	II	1:19
2021-2022	I	1:17
	II	1:17
2022-2023	I	1:17
	II	1:17
2023-2024	I	1:17
	II	1:18

Counselling Report Summary

The outcome of students Counselling after each semester is shown in Table 9.1.3. This table shows the improvement of Mentees' academic performance as a result of regular periodic counselling by the Mentor.

Table 9.1.3 Outcome of students Counselling from 2020 to 2024

Academic Year	Semester	Number of Students		
		Counseled	Improved in Attendance	Improved in Academic Performance
2020-2021	I	592	181	187
	II	616	169	194
2021-2022	II	616	157	148
2022-2023	I	616	152	139
	II	616	165	116
2023-2024	I	622	195	136

Engineering College Automation Package (E-Cap) Software

The Institution has a software package called E-Cap that simplifies the counselling process. E-Cap offers a well-established student support and mentoring system. All faculty in the department have access to this package. Each faculty member has their own username and password to log in. Teachers enter attendance for their classes/labs on a daily basis. The faculty and parents can track the progress of students from any location. Fig. 9.1.9 and Fig. 9.1.10 shows the details of E-Cap. It helps the Mentor in monitoring the Mentees easily and effectively.

Fig 9.1.9 E-Cap details

Fig 9.1.10 E-Cap showing attendance report of students

Undertaking letter by the Parent

At the end of each month, student Attendance is displayed on the notice boards. If Attendance is less than 75%, the Class Teacher and Mentor will inform the parent. In addition, attendance shortage letter will be sent to the parents. It helps to monitor the student's academic performance. Fig. 9.1.11 shows the parent communication letter.

UNDERTAKEING BY THE PARENT

I _____ parent/guardian of _____ will assure that my ward will obtain a minimum of 75% of cumulative attendance in all the subjects by the end of the academic semester. In case she doesn't improve, I am aware of the consequences that , she will be detained and have to repeat the entire class as and when it is offered.

Signature of the Student

Signature of the parent/Guardian

Date :

Name of the Candidate :

H.T.No :

Percentage of attendance :

PRINCIPAL

Fig. 9.1.11 Undertaking by parent

Class Teacher Report

The Class Teacher submits student's report with less than 65% attendance. Fig. 9.1.12 shows Class Teacher Report.

Date: 17-1-2024

GNITS	UNITS-D / ECE /GAD / 20-00
Student attendance details	DEPARTMENT : ECE

Class Teacher Report – IIIV ECE A

The following students of IIIV ECE – A have attendance less than 65% during the month of September 2023. Their parents have been informed of their shortage of attendance through phone. I have also checked if their parents are receiving the daily SMS regarding attendance and requested them to make sure their daughter attends the college more regularly. The reason for such attendance shortage is noted below.

S. NO:	ROLL NO:	NAME	ATTENDANCE	REMARKS
1.	22251A0433	Basantha Alekhya	55.9%	She has kidney stones so she suffered
2.	22251A0435	Chakkali Akshaya Yadav	58.88%	Suffering from Typhoid.

Class Teacher – IIIV - A

P.Sri Padma

Assistant Professor, ECE

Fig. 9.1.12 Class Teacher Report

Weak Students [Slow Learners] Report

Depending on the marks of the students in Internal Assessment-1, students will be classified as slow learners/ weak students (less than13 marks for GNR18 Regulation and less than 15 marks in GNR22 Regulation). Fig. 9.1.13 shows the report on Slow learners. Fig. 9.1.14 shows the improvement of marks of a student after counselling. Fig. 9.1.15 shows the schedule of remedial classes and Fig. 9.1.16 shows a part of the report on remedial classes.

Fig. 9.1.13 Slow Learners Report

Fig.9.1.14. Counselling record of student showing improvement in EMTL

Fig. 9.1.15 Remedial Class Time Table

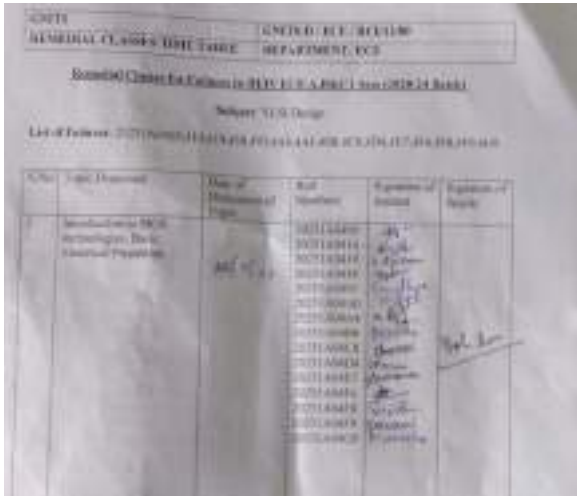


Fig. 9.1.16 Remedial class report from faculty

Advanced Learners [Fast Learners] Report

Depending on the marks of the students in Internal Assessment-1, students will be classified as advanced learners (if marks are greater than 25 for GNR18 Regulation and greater than 30 in R22 Regulation). Fig. 9.1.17 shows the report on advanced learners. Fig. 9.1.18 shows the participation of Advanced Learners in various Hackathons, Ideathons, Workshops, etc

Fig. 9.1.17 Advanced Learners Students report

Fig. 9.1.18 NPTEL certificate of student as a result of encouragement

Result of mentoring of students in Academics

Mentoring plays critical role in students' future. Mentor gives suggests on common questions like what are the difficult subjects of the semester, what are the books available in library for the subjects, how to prepare for exams, how to write the answers during examination, how to prepare for competitive exams, suggest best coaching centres etc. Mentoring of students from I year to IV year increases the academic performance. Below Fig. 9.1.20 shows the average CGPA of a student 19251A04F4 from Sem I to Sem VII.

Fig. 9.1.19 Academic Performance of student as a graph Sem Vs CGPA

9.2 Feedback analysis and reward /corrective measures taken, if any (10) Total Marks 10.00

Institute Marks : 10.00

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

A. Methodology being followed for analysis of feedback and its effectiveness (5)

Feedback collected for all courses: YES

9.2 Feedback Analysis and Reward /Corrective Measures taken (10)

A. Methodology being followed for analysis of feedback and its effectiveness (5)

B. Record of corrective measures taken (5)

Feedback collected for all courses: YES

Specify the feedback collection process: Both Interactive and Online Feedbacks are Collected.

Collecting feedback from students on faculty is an essential aspect of improving the overall educational experience. GNITS has a properly structured mechanism to obtain Feedback from Students on Faculty and the Teaching Process through well designed formats.

The Feedback is collected at 2 Levels:

1. **Interactive Feedback in Class Review Committee (CRC) Meeting** from a Focussed Group of Students as Scheduled in Academic Calendar. (Twice Every Semester – 1 week before commencement of Mid I and Mid II)
2. **Online Feedback from all Students as scheduled in the Academic Calendar.** (Once Every Semester till 2022-2023 and Twice Ever Semester from 2023-2024)

Fig. 9.2.1 shows the Academic Calendar for II B.Tech. II Semester in the year 2023-2024

G.NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE

(AUTONOMOUS)

FOR WOMEN

ACADEMIC CALENDAR (2020-2024)

II B. Tech-I Sem

Commencement of 1st Semester Class Work	11-09-2023
1st Spell of Instructions	11-09-2023 To 11-11-2023 (9 Weeks)
1st Class Review meeting	16-10-2023 to 21-10-2023
Course Files and Lecture Diaries Verification	16-10-2023 to 21-10-2023
Dussehra Holidays	23-10-2023 to 28-10-2023(1 Week)
Online Interim Feedback	30-10-2023 to 04-11-2023
First Mid Term Examinations	13-11-2023 to 18-11-2023 (1 Week)
First Mid Marks Submission	21-11-2023
Student Midterm Feedback (Online)	20-11-2023 to 25-11-2023
2nd Spell of Instructions	20-11-2023 to 13-01-2024 (8 Weeks)
Counselling for students	04-12-2023 to 09-12-2023
2nd Class Review meeting	04-12-2023 to 09-12-2023
Second Mid Term Examinations	17-01-2024 to 22-01-2024 (1 Weeks)
Second Mid and Consolidated Marks Submission	23-01-2024
Lecture Diaries Verification	22-01-2024 to 27-01-2024
Counselling for students	22-01-2024 to 27-01-2024
Preparation & Practical Examinations	23-01-2024 to 27-01-2024 (1 Week)
Student Summary Feedback (Online)	23-01-2024 to 27-01-2024
End Semester Examinations	29-01-2024 to 10-02-2024 (2 Weeks)

Fig. 9.2.1. Academic Calendar with Class Review Meeting Schedule

Feedback through CRC Meetings

CRC emphasizes on Subject delivery, Understanding Concept, Syllabus completion, Classroom facilities and any other general problems.

Constitution of CRC:

- Head of the Department (HoD) or Inchrge HoD
- Dean Academics/Principal
- Course Instructors
- 8 Students.

The composition of the Student members in the CRC will be as follows

- Class Representative (CR)
- Incharge Class Representative (ICR)
- 2 students from the CGPA band of 8 to 10
- 2 students from the CGPA band of 6.5 to 8
- 2 students from the CGPA below 6.5

Out of these 8 Student Members, at least one must be from Hostel and One from Lateral Entry category.

It is mandatory to have at least one student from each Professional/Open Elective.

In the absence of any of the above mentioned student members, other students are invited from the same category

Procedure for Conduction of Class Review Committee Meetings(CRC):

- Syllabus Coverage is Collected from all the faculty.
- A Circular is forwarded to all the CRC members 3 days before the meeting informing the CRC Schedule.
- On the day of meeting, all the CRC members attend the meet.
- Dean Academics/Principal will Convene the meeting.
- The Minutes of the meeting are forwarded to the Dean Academics within 2 days after the meeting.
- Based on the students' feedback from CRC meeting, corrective actions are taken by the HoD.
- For instance, If a particular faculty is lagging in syllabus coverage, then he/she is allotted extra classes to complete the required syllabus.

Fig.9.2.2 CRC Meeting Schedule

Fig.9.2.3 Minutes of CRC Meeting

Fig. 9.2.4. Time Table for Extra Classes as Requested by Faculty to Complete Syllabus on Time

Online Feedback from Students

Process of Online Feedback Collection and Analysis:

- Students rate the Quality of teaching based on 13 parameters for each course.
- Emphasis is on the quality of teaching, subject knowledge, content delivery, discipline and assessment.
- The feedback system is automated and centrally collected by Dean Academics.
- The students respond to the feedback form for each course from their student logins.
- The feedback analysis is performed for all courses and communicated to the Head of the Institute and concerned HoD.

Fig. 9.2.5. Online Feedback Form

Basis of Reward: Feedback is considered as one of the Assessment Criteria for Faculty Appraisal (15 Marks out of 100 Marks) as well as Promotion (25 Marks out of 100 Marks).

Figs. 9.2.6 and 9.2.7 shows **Part of the Faculty Appraisal Application Form Showing the Awarding of 15 Marks for Online Feedback from Students and Part of the Faculty Promotion Application Form Showing the Awarding of 25 Marks for Online Feedback from Students**

Fig. 9.2.6. Part of the Faculty Appraisal Application Form Showing the Awarding of 15 Marks for Online Feedback from Students

a. Students' Feedback (Max. Points 25)

S. No.	Semester (I/II-Acad. Year)	Course Code/ Name	Average Student feedback in the scale of 25	Evidence no.
1	Sem I 2022-2023	EMTL (III B.Tech. ECE B) - 88.4%	22.1[illegible]	
2		RMAIPR – CSE (I M.Tech) - 84.04%	21	
3		RMAIPR – WSC (I M.Tech) - 100%	25	
4		RMAIPR – PEED (I M.Tech) - 90.38%	22.6	
5		RMAIPR – CNIS (I M.Tech) - 81.87%	20.5	
6	Sem II 2022-2023	[illegible] (IV B.Tech. ECE B) – 84.8[illegible]%	21	
		Average	22.29	
7	Sem I 2021-2022	RMAIPR – DECE (I M.Tech) - 97.77%	24.44	
8		RMAIPR – WSSC (I M.Tech) - 70.[illegible]%	17.[illegible]	
9		RMAIPR – PEED (I M.Tech) - 90.75%	22.[illegible]	
10		EMTL (III B.Tech. ECE B) - 86.77%	21.69	
11	Sem II 2021-2022	[illegible] (IV B.Tech ECE A) - 91.29%	22.82	
12		AWP (III B.Tech. ECE A) - 81.29%	20.07	
13		AWP (III B.Tech. ECE C) - 81.54%	20.[illegible]	
		Average	22	
14	Sem I	RMAIPR – DECE (I M.Tech) - 94.20%	23.[illegible]	

Fig. 9.2.7. Part of the Faculty Promotion Application Form Showing the Awarding of 25 Marks for Online Feedback from Students

Corrective measures, if any: Based on the Student feedback and analysis, Faculty are advised to improve in the points they are lagging.

Faculty members who score

- less than 75% are counselled for improvement by the HoD, Dean Academics/Principal and less than 60% will be required to submit a written explanation.
- Faculty members who get less than 60% Feedback will also be required to attend Faculty Development Programs (FDPs) on Pedagogical Methods to improve their Teaching Skills.

Fig. 9.2.8. Feedback Form with “Needs to Improve” Result

Fig. 9.2.9. Letter written by the Faculty as an Explanation for “Needs to Improve” Feedback.

Indices used for measuring quality of teaching & learning and summary of the index

value:

Feedback Indices

1. Teacher’s command over of the subject
2. Did the teacher help in understanding concepts and principles?
3. Teacher’s communication skills
4. Teacher’s enthusiasm about teaching
5. Did the Teacher give examples?
6. Did the Teacher cover all the units with required importance?

7. Accessibility of the Teacher outside the class
8. Interaction with the students during the session
9. Teacher's ability in controlling the class
10. Punctuality of Teacher in engaging the class
11. Standard of Assignment for learning subject
12. Discussion of solution to question papers assignments and typical questions
13. Overall rating of the teacher

For each Index, the Faculty are rated from 1 to 4

Feedback is Analysed by generating Percentage as follows:

FeedBack Calculation:

Maximum Score = 13*4 = 52 (13 Indices and 4 is maximum score for each criterion.)

$$\text{Feedback \%} = \frac{\text{Total Score Obtained by a Faculty}}{\text{Maximum Score}} \times 100$$

9.2.1 Feedback percentags Ranges

Feedback %	Verdict
>85%	Excellent
76% to 85%	Good
61% to 75%	Satisfactory
<60%	Needs to Improve

Statistics of faculty feedback

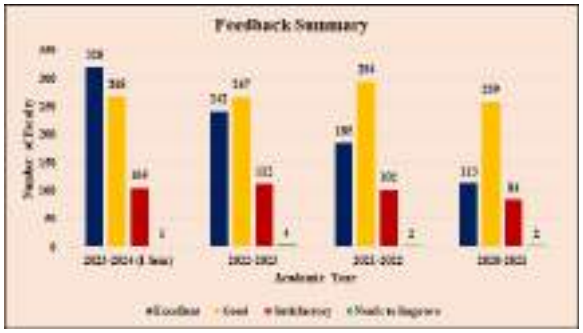


Fig. 9.2.10. Faculty Feedback Summary for last 3 Academic Years at the Institute Level

Number of corrective actions taken:

9 Corrective Actions Taken to address the cases of "Needs to Improve" in Online Feedback.

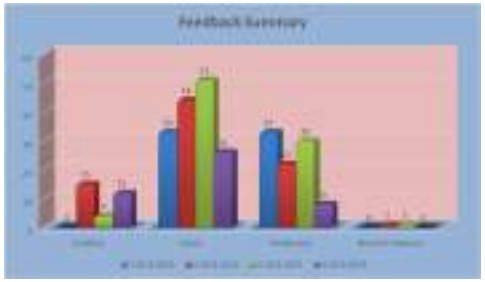


Fig. 9.2.11. Faculty Feedback Summary for last 3 Academic Years at the Department Level

Number of corrective actions taken:

2 Corrective Actions Taken to address the cases of "Needs to Improve" in Online Feedback.

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks : 5.00

9.3 Feedback on Facilities from Outgoing Students (5)

A.Feedback Collection, analysis and corrective action

Analysis of Feedback from outgoing students of 2019-2023 Batch:

Feedback on facilities serves as a crucial tool for continuous improvement and quality assurance which is collected from all the outgoing students every year at the end of their final semester.It allows students to express their opinions and experiences regarding various aspects of the institutions infrastructure and amenities.

This feedback typically covers a range of facilities including:

Faculty: Assessing the competence, availability, and approachability of teaching staff.

Laboratories: Evaluating the adequacy of equipment, cleanliness, and overall functionality of laboratory spaces.

Environment: Commenting on the overall ambiance, cleanliness, and maintenance of the campus.

Library: Providing feedback on the collection of resources, accessibility, and comfort of library facilities.

Canteen: Assessing the quality, variety, and hygiene standards of food services.

Internet Facilities: Reviewing the reliability, speed, and coverage of internet connectivity.

Sports & Games: Evaluating the availability and condition of sports facilities and equipment.

Discipline: Providing feedback on the enforcement of rules and regulations, as well as the overall disciplinary atmosphere.

Training & Placement: Assessing the effectiveness of career guidance, placement services, and industry interactions.

Office and Exam Branch: Evaluating the efficiency and responsiveness of administrative services related to academic matters and examinations.

A standard format for Outgoing Student Feedback is illustrated in Fig. 9.3.1 & Fig. 9.3.2.

Students rate various aspects using a five-point scale:

- Excellent
- Very Good
- Good
- Average
- Needs Improvement.

After collecting feedback, analysis is conducted based on the grades provided by the students. If corrective measures are necessary, they are brought to the attention of the Head of the Institution for appropriate action.

Fig. 9.3.1 Outgoing Student Feedback form Page 1

Fig. 9.3.2 Outgoing Student Feedback form Page 2

Feedback Analysis (2019-2023 Batch)

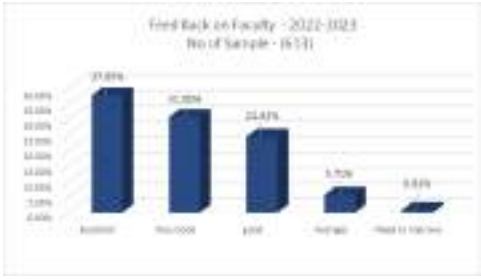


Fig. 9.3.3 Summary of Feedback on Faculty for 2022-2023

Summary of Feedback on Faculty

Fig. 9.3.3 shows the analysis of Feedback on Faculty.

It was observed that:

- 93.47% students are very much satisfied with the faculty and their competency available in the Institution.
- Only 6.53% of students expressed dissatisfaction on this aspect.

Since the overall feedback was very much satisfactory, no actions were contemplated

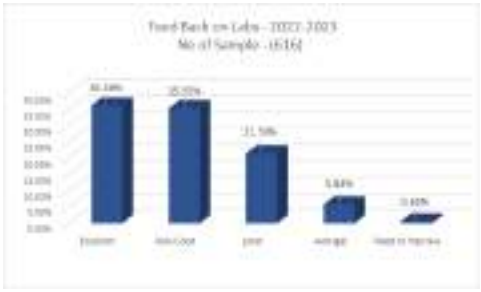


Fig. 9.3.4 Summary of Feedback on Labs

Summary of feedback on Labs

Fig.9.3.4 Provides the Feedback on Labs.

It was observed that:

- 93.51%students are very much satisfied with the labs that are available in the Institution.
- Only 6.49%of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students are very less no action was needed.

However, as a matter of policy plus as a corrective measure in response to the suggestions given by the some of the students, the Institution has been reviewing the quality and quantity of equipment present in different labs from time to time and appropriate replacements/enhancements were affected as and when needed.

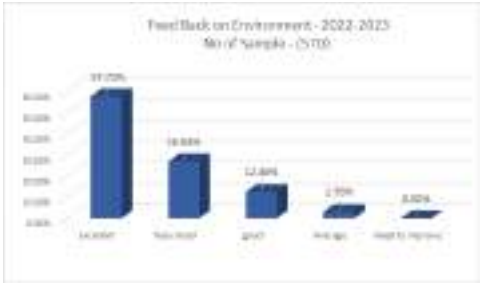


Fig. 9.3.5 Summary of Feedback on Environment

Summary of feedback on Environment

Fig.9.3.5 represents the Feedback on Environment.

It was observed that:

- 97.02% students are happy with the overall environment prevailing in the Institution.
- Only 2.98% students expressed the need for improvement.

Since the percentage of dissatisfied students is very less no concrete action was contemplated.

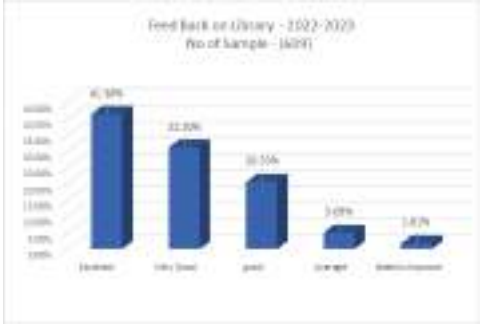


Fig. 9.3.6 Summary of Feedback on Library 2022-2023

Summary of feedback on Library

Fig. 9.3.6 provides the students Feedback on Library.

It was observed that:

- 93.10%students satisfied with the facilities and books that are available in the College Library.
- Only 6.90% of students expressed dissatisfaction through their suggestions.

The suggestions along with actions taken are given below:

Suggestion: More issue copies of text books should be added

Corrective action: Number of volumes were increased considerably.

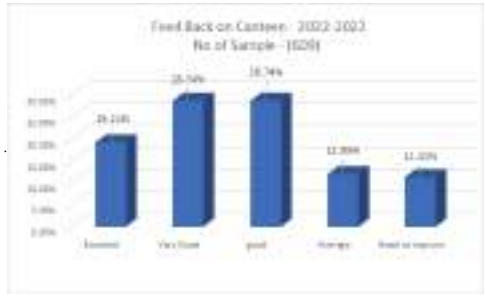


Fig. 9.3.7 Summary of Feedback on Canteen

Summary of feedback on Canteen

Fig. 9.3.7 depicts student feedback on Canteen.

It is observed that:

- 76.68% students are satisfied with the Canteen facilities.
- 23.32% of students expressed dissatisfaction on the quality/variedness of the food and hygiene conditions.

Some of the views expressed by some of the students are:

1. More varieties & healthy food items should be included in the menu.
2. Maintenance & hygiene have to be increased.

Consequent to these observations few actions were taken. They are:

1. Quality of food and Variedness – More varieties of food items were introduced in the menu while ensuring that the quality was not compromised.
2. Maintenance & Hygiene – As a part of efforts in the direction of improving Maintenance & Hygiene, the Canteen Committee was strengthened by increasing the faculty members so that frequent monitoring can take place. In addition, the seating capacity was further enhanced by providing more benches in and around the canteen.

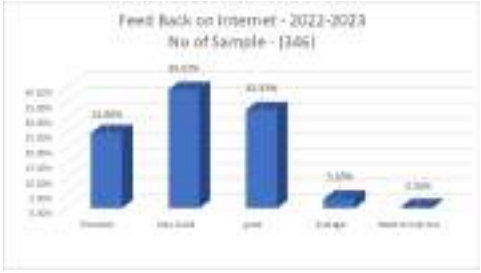


Fig. 9.3.8 Summary of Feedback on Internet Facility

Summary of feedback on Internet Facility:

Fig. 9.3.8 presents the students feedback on internet facility.

It was observed that:

- 96.24% students are very much satisfied with the internet facility provided by the Institution.
- Only 3.76% of students expressed their unhappiness on this aspect.

However, as a matter of policy the speed of the internet was constantly upgraded over the years. **Presently it is 1000 Mbps**.

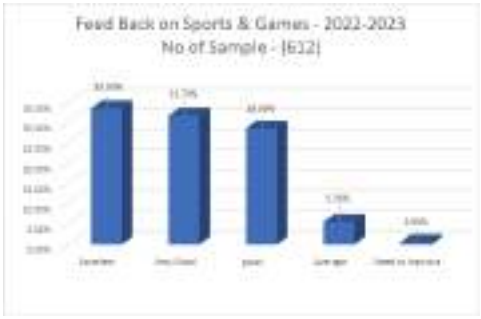


Fig. 9.3.9 Summary of Feedback on on Sports and Games

Summary of feedback on Sports and Games:

Fig. 9.3.9 shows the students feedback on sports and games.

It was observed that:

- 93.79% students are very much satisfied with the Sports & Games department available in the Institution.
- Only 6.21% of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students is very less no action was needed.

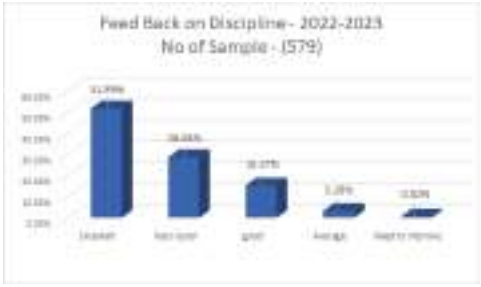


Fig. 9.3.10 Summary of Feedback on Disciplinary Aspects

Summary of feedback on Disciplinary Aspects:

Fig. 9.3.10 presents feedback on Disciplinary Aspects.

It was observed that:

- 96.20% students are very much satisfied with the Disciplinary aspects that are in force in the Institution since beginning.
- 3.80% of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students are very less no further action was needed.

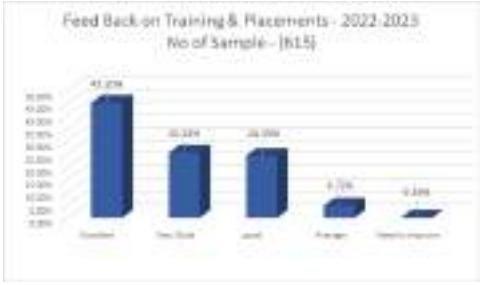


Fig. 9.3.11 Summary of Feedback on Training and Placements

Summary of feedback on Training & Placement:

It was observed from Fig. 9.3.11 that

- 97.29% students are very much satisfied with the Training & Placements in the Institution.
- 2.70% of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students is very less no action was needed. However, as a matter of policy regular placement trainings were imparted to all the students of 2nd year and 3rd year.

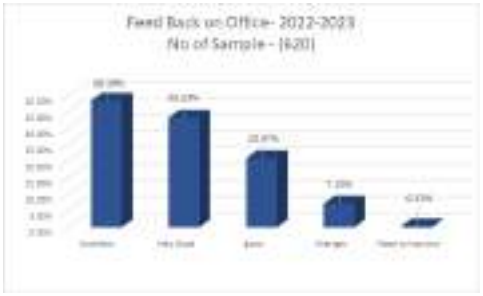


Fig. 9.3.12 Summary of Outgoing Students Feedback on Office

Summary of feedback on Office:

Fig. 9.3.12 shows outgoing student's feedback on Office.

It was observed that:

- 92.58% students are very much satisfied with the Office in the Institution.
- 7.42% of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students are very less no action was needed.

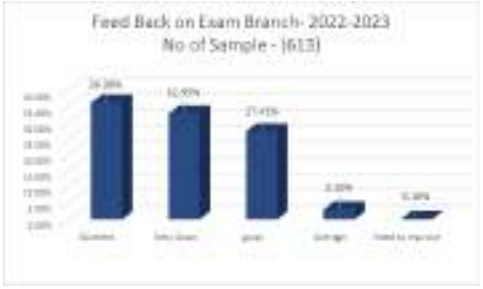


Fig. 9.3.13 Summary of Feedback on Exam Branch

Summary of feedback on Exam branch:

Fig. 9.3.13 depicts the Feedback on Exam Branch.

It is observed that:

- 96.74% students are very much satisfied with the Exam branch in the Institution.
- 3.26% of students expressed dissatisfaction on this aspect.

Since the number of dissatisfied students are very less no action was needed.

Following Table 9.3.1 illustrates the improvement in the various facilities in the Institution from previous assessment period to current assessment period:

Table 9.3.1 Improvement in various Facilities from 2020 to 2024

S. No	Infrastructure / Facility	Previous Assessment period	Current Assessment Period
1.	Faculty	Faculty with Ph.D = 44	Faculty with Ph.D = 69
2	Internet -Wi-Fi	500 Mbps	1000 Mbps
3	Wi-Fi Access Ports	32	115
4	Projectors	70	92
5	Smart Boards	5	17

6	ICT Tools	42	49
7	Labs	57	63
8	Library	Titles: 9254 Volumes: 43116 Print Journals: 113 E-journals IEEE (ASP APCK) DELNET Fine collection process: Slow	Titles: **9687** Volumes: **45203** Print Journals:**115** E-Journals IEEE (ASP pack), IEEE (All POPs), DELNET, J- GATE, Knimbus Remote access, Turnitin Plagiarism Check. Fine collection process: Fast (Provision of QR code)
9	Canteen	Hygiene: Good but inadequate. Food: Limited varieties Seating Capacity: Limited due to shortage of space.	Hygiene & Maintenance: As a part of efforts in the direction of improving Maintenance & Hygiene, the Canteen Committee was strengthened by increasing the faculty members so that frequent monitoring can take place. Quality of food and Variedness: More varieties of food items were introduced in the menu while ensuring that the quality was not compromised Seating Capacity: In addition, the seating capacity was further enhanced by providing more benches in and around the canteen.

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

9. **Self-Learning (5)**

A. Scope for self-learning (2)

B. The institution needs to specify the facilities, materials for learning beyond syllabus,Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)

A.Scope for self-Learning (2)

All courses in the syllabus book are provided with standard online resources for students for self-learning.

- GNITS provides financial support to encourage the students to work on the projects of their interest and allow the students to access the digital platforms beyond working hours.
- GNITS has Digital library access to e-Journals which are subscribed through AICTE INDEST consortium; These journals are from IEEE etc.
- The self-learning online /physical materials like GMAT, GATE, IELS, TOFEL, etc. are also available in the main library to encourage the students to learn beyond the syllabus for competitive examinations and employment. Special classes are also arranged by the institute entrepreneurship cell to the students to encourage them to become an entrepreneur.

The Institute also offers the following self-learning activities in the campus:

Classroom Presentation

Allowing students to prepare and present a topic from the curriculum or any latest technology.

The following are the Self-Learning resources used by the students of GNITS:

- SWAYAM
- NPTEL
- NPTEL-MOOC's
- NDLI
- MIT open courseware
- Coursera
- Web / Video Learning, Sonet Video Lessons
- Lecture Capturing System
- YouTube videos of faculty

e-Resources

Various e-resources provided by the college with URL is given below for self-learning. Students can access them through internet. Table 9.4.1 shows various e-Resources available in the Department/College.

Table 9.4.1 List of e-Resources

S.No.	Name of the e-Resources	Name of the service provider	URL
1	e – journals/e-books consortia	IEEE Digital Library	https://ieeexplore.ieee.org/ (https://ieeexplore.ieee.org/)
		DELNET	https://delnet.in/ (https://delnet.in/)
		J-GATE	https://jgateplus.com/home/ (https://jgateplus.com/home/)
		Knimbus	https://gnits.knimbus.com/user#/home (https://gnits.knimbus.com/user#/home)
		AICTE-e-KUMBH	https://ekumbh.aicte-india.org/allbook.php (https://ekumbh.aicte-india.org/allbook.php)
		e-PG Pathshala (http://epgp.inflibnet.ac.in/)	https://epgp.inflibnet.ac.in/ (https://epgp.inflibnet.ac.in/)
2	e-ShodhSindhu	INFLIBNET	https://ess.inflibnet.ac.in/oes/memberhome.php (https://ess.inflibnet.ac.in/oes/memberhome.php)
3	e-Shodhganga	INFLIBNET	https://shodhganga.inflibnet.ac.in/ (https://shodhganga.inflibnet.ac.in/)
4	SWAYAM	NPTEL	https://archive.nptel.ac.in/LocalChapter/statistics/742/ (https://archive.nptel.ac.in/LocalChapter/statistics/742/)
5	Vidwan	INFLIBNET	https://vidwan.inflibnet.ac.in/ (https://vidwan.inflibnet.ac.in/)
6	IRINS	INFLIBNET	https://gnits.irins.org/ (https://gnits.irins.org/)
7	Remote Access	Knimbus	https://gnits.knimbus.com/user#/home (https://gnits.knimbus.com/user#/home)
8.	NDL	National Digital Library (NDL)	https://ndl.iitkgp.ac.in/ (https://ndl.iitkgp.ac.in/)
9.	Plagiarism	Turnitin Plagiarism checker	https://gnarayanamma.turnitin.com/ (https://gnarayanamma.turnitin.com/)
10	Library Web page	GNITS LIBRARY	http://gnitslibrry.pbaworks.com (http://gnitslibrry.pbaworks.com/)

SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) Swayam is a platform that facilitates hosting of all the courses taught in classrooms to be accessed by anyone, anywhere anytime for self-learning.
https://swayam.gov.in (https://swayam.gov.in/)

NPTEL (National Programme on Technology Enhanced Learning)

This is a project of MHRD initiated by seven IITS along with the IISC to provide quality education to anyone interested in self-learning. The main goal is to create web and video courses in all major branches of engineering and technology. The objective of enabling students to obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education programme.

https://nptel.ac.in (https://nptel.ac.in/)

https://onlinecourses.nptel.ac.in (file:///C:/Users/admin/AppData/Local/Microsoft/Windows/INetCache/IE/QXGCLQLT/%0dhttps:/onlinecourses.nptel.ac.in%20)

Table 9.4.2. is the list of NPTEL courses completed by students.

Table 9.4.2. List of NPTEL Courses Completed by Students

S.No.	Engineering Discipline	Name of Course & Date	No. of Student Enrolled
1	Computer Science and Engineering	Problem Solving Through Programming In C (July-Dec 2022)	26
2	Computer Science and Engineering	Programming In Java (July-Dec 2022)	10

3	Electronics and Communication Engineering	Demystifying Networking (July-Dec 2022)	2
4	Computer Science and Engineering	The Joy of Computing using Python (July-Dec 2022)	95
5	Computer Science and Engineering	Discrete Mathematics (July-Dec 2022)	1
6	Computer Science and Engineering	Deep Learning (July-Dec 2022)	1
7	Computer Science and Engineering	C Programming and Assembly Language (July-Dec 2022)	10
8	Computer Science and Engineering	Artificial Intelligence : Search Methods For Problem solving (July-Dec 2022)	1
9	Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python (July-Dec 2022)	3
10	Computer Science and Engineering	Python for Data Science (July-Dec 2022)	2
11	Computer Science and Engineering	Introduction to Operating Systems (July-Dec 2022)	1
12	Computer Science and Engineering	Applied Accelerated Artificial Intelligence (July-Dec 2022)	4
13	Computer Science and Engineering	Data Science for Engineers (July-Dec 2022)	18
14	Computer Science and Engineering	Cloud Computing- Part 1 (July-Dec 2022)	5
15	Computer Science and Engineering	Computer Architecture And Organization (July-Dec 2022)	2
16	Computer Science and Engineering	Digital Circuits (July-Dec 2022)	1
17	Computer Science and Engineering	Discrete Mathematics (July-Dec 2022)	1
18	Computer Science and Engineering	Electrical Machines - I (July-Dec 2022)	1
19	Computer Science and Engineering	Ethical Hacking (July-Dec 2022)	15
20	Computer Science and Engineering	Functional Genomics (July-Dec 2022)	2
21	Computer Science and Engineering	Fundamentals of Artificial Intelligence (July-Dec 2022)	1
22	Computer Science and Engineering	Higher Engineering Mathematics (July-Dec 2022)	1
23	Computer Science and Engineering	Indian Fiction in English (July-Dec 2022)	1
24	Computer Science and Engineering	Innovation, Business Models and Entrepreneurship (July-Dec 2022)	1
25	Computer Science and Engineering	Integral Transforms and their Applications (July-Dec 2022)	1
26	Computer Science and Engineering	Introduction to Film studies (July-Dec 2022)	1
27	Computer Science and Engineering	Introduction to Internet of Things (July-Dec 2022)	13
28	Computer Science and Engineering	Introduction to Machine Learning (July-Dec 2022)	31
29	Computer Science and Engineering	Introduction to Operating Systems (July-Dec 2022)	2
30	Computer Science and Engineering	Introduction to Programming in C (July-Dec 2022)	1

31	Computer Science and Engineering	Introduction to Programming in C (July-Dec 2022)	41
32	Computer Science and Engineering	Machine Learning for Engineering and Science Applications (July-Dec 2022)	12
33	Computer Science and Engineering	Marketing Management-I (July-Dec 2022)	1
34	Computer Science and Engineering	Modern Algebra (July-Dec 2022)	1
35	Computer Science and Engineering	Natural Language Processing (July-Dec 2022)	3
36	Computer Science and Engineering	Neural Networks for Signal Processing - I (July-Dec 2022)	3
37	Computer Science and Engineering	Operating System Fundamentals (July-Dec 2022)	1
38	Computer Science and Engineering	Practical Machine Learning with Tensorflow (July-Dec 2022)	8
39	Computer Science and Engineering	Problem Solving through Programming in C (July-Dec 2022)	22
40	Computer Science and Engineering	Programming in C++ (July-Dec 2022)	30
41	Computer Science and Engineering	Programming In Java (July-Dec 2022)	57
42	Computer Science and Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	49
43	Computer Science and Engineering	Python for Data Science (July-Dec 2022)	17
44	Computer Science and Engineering	Scalable Data Science (July-Dec 2022)	2
45	Computer Science and Engineering	Social Networks (July-Dec 2022)	1
46	Computer Science and Engineering	Software Engineering (July-Dec 2022)	16
47	Computer Science and Engineering	Stress Management (July-Dec 2022)	1
48	Computer Science and Engineering	Technical english for engineers (July-Dec 2022)	3
49	Computer Science and Engineering	The Ethical Corporation (July-Dec 2022)	1
50	Computer Science and Engineering	The Joy of Computing using Python (July-Dec 2022)	52
51	Electrical and Electronics Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink (July-Dec 2022)	3
52	Electrical and Electronics Engineering	An Introduction to Programming through C++ (July-Dec 2022)	12
53	Electrical and Electronics Engineering	Analog Electronic Circuit (July-Dec 2022)	16
54	Electrical and Electronics Engineering	Artificial Intelligence : Search Methods for Problem Solving (July-Dec 2022)	2
55	Electrical and Electronics Engineering	Basic Electric Circuits (July-Dec 2022)	25
56	Electrical and Electronics Engineering	Bioenergy (July-Dec 2022)	1
57	Electrical and Electronics Engineering	Body Language: Key to Professional Success (July-Dec 2022)	1

58	Electrical and Electronics Engineering	C Programming and Assembly Language (July-Dec 2022)	9
59	Electrical and Electronics Engineering	Calculus of One Real Variable (July-Dec 2022)	6
60	Electrical and Electronics Engineering	Computational Electromagnetics (July-Dec 2022)	1
61	Electrical and Electronics Engineering	Contemporary Architecture and Design (July-Dec 2022)	1
62	Electrical and Electronics Engineering	Control engineering (July-Dec 2022)	4
63	Electrical and Electronics Engineering	Control systems (July-Dec 2022)	2
64	Electrical and Electronics Engineering	Data Base Management System (July-Dec 2022)	12
65	Electrical and Electronics Engineering	Design Thinking - A Primer (July-Dec 2022)	1
66	Electrical and Electronics Engineering	Developing Soft Skills and Personality	3
67	Electrical and Electronics Engineering	Developing Soft Skills and Personality (July-Dec 2022)	2
68	Electrical and Electronics Engineering	Digital Signal Processing (July-Dec 2022)	5
69	Electrical and Electronics Engineering	E-Business (July-Dec 2022)	1
70	Electrical and Electronics Engineering	Electrical Distribution System Analysis (July-Dec 2022)	5
71	Electrical and Electronics Engineering	Electrical Machines (July-Dec 2022)	28
72	Electrical and Electronics Engineering	Electrical Machines - I (July-Dec 2022)	78
73	Electrical and Electronics Engineering	Electrical Measurement and Electronic Instruments (July-Dec 2022)	43
74	Electrical and Electronics Engineering	Energy Conservation and Waste Heat Recovery (July-Dec 2022)	1
75	Electrical and Electronics Engineering	Engineering Mechanics (July-Dec 2022)	1
76	Electrical and Electronics Engineering	Ergonomics in Automotive Design (July-Dec 2022)	1
77	Electrical and Electronics Engineering	Ethical Hacking (July-Dec 2022)	3
78	Electrical and Electronics Engineering	Fundamentals of Electric Drives (July-Dec 2022)	3
79	Electrical and Electronics Engineering	Fundamentals of Electrical and Electronics Engineering (July-Dec 2022)	14
80	Electrical and Electronics Engineering	Game theory (July-Dec 2022)	1
81	Electrical and Electronics Engineering	Higher Engineering Mathematics (July-Dec 2022)	1
82	Electrical and Electronics Engineering	Innovation, Business Models and Entrepreneurship (July-Dec 2022)	1
83	Electrical and Electronics Engineering	Integral Transforms and their Applications (July-Dec 2022)	1
84	Electrical and Electronics Engineering	Introduction to Internet of Things (July-Dec 2022)	1

85	Electrical and Electronics Engineering	Introduction to Machine Learning (July-Dec 2022)	3
86	Electrical and Electronics Engineering	Introduction to Mechanobiology (July-Dec 2022)	1
87	Electrical and Electronics Engineering	Introduction to Programming in C (July-Dec 2022)	23
88	Electrical and Electronics Engineering	Machine Learning for Engineering and Science Applications (July-Dec 2022)	1
89	Electrical and Electronics Engineering	Mapping Signal Processing Algorithms to Architectures (July-Dec 2022)	1
90	Electrical and Electronics Engineering	Mathematical Finance (July-Dec 2022)	1
91	Electrical and Electronics Engineering	Microelectronics: Devices to Circuits (July-Dec 2022)	1
92	Electrical and Electronics Engineering	Nanotechnology in Agriculture (July-Dec 2022)	1
93	Electrical and Electronics Engineering	Numerical methods (July-Dec 2022)	2
94	Electrical and Electronics Engineering	Numerical Methods and Simulation Techniques for Scientists and Engineers (July-Dec 2022)	1
95	Electrical and Electronics Engineering	Object oriented analysis and design (July-Dec 2022)	1
95	Electrical and Electronics Engineering	Op-Amp Practical Applications: Design, Simulation and Implementation (July-Dec 2022)	1
97	Electrical and Electronics Engineering	Positive Psychology (July-Dec 2022)	1
98	Electrical and Electronics Engineering	Power Electronics (July-Dec 2022)	5
99	Electrical and Electronics Engineering	Power System Analysis (July-Dec 2022)	15
100	Electrical and Electronics Engineering	Problem Solving through Programming in C (July-Dec 2022)	27
101	Electrical and Electronics Engineering	Programming in C++ (July-Dec 2022)	5
102	Electrical and Electronics Engineering	Programming In Java (July-Dec 2022)	13
103	Electrical and Electronics Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	3
104	Electrical and Electronics Engineering	Python for Data Science	5
105	Electrical and Electronics Engineering	Quantum Computing (July-Dec 2022)	1
106	Electrical and Electronics Engineering	Sensors and Actuators (July-Dec 2022)	2
107	Electrical and Electronics Engineering	Technologies for clean and renewable energy production (July-Dec 2022)	1
108	Electrical and Electronics Engineering	The Joy of Computing using Python (July-Dec 2022)	6
109	Electrical and Electronics Engineering	Toyota Production System (July-Dec 2022)	1
110	Electrical and Electronics Engineering	Training of Trainers (July-Dec 2022)	1

111	Electrical and Electronics Engineering	Working Capital Management (July-Dec 2022)	1
112	Electronics and Communication Engineering	Advanced Computer Architecture (July-Dec 2022)	2
113	Electronics and Communication Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink (July-Dec 2022)	8
114	Electronics and Communication Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink (July-Dec 2022)	1
115	Electronics and Communication Engineering	An Introduction to Programming through C++ (July-Dec 2022)	35
116	Electronics and Communication Engineering	Analog Communication (July-Dec 2022)	17
117	Electronics and Communication Engineering	Analog Electronic Circuit (July-Dec 2022)	8
118	Electronics and Communication Engineering	Applied Natural Language Processing (July-Dec 2022)	1
119	Electronics and Communication Engineering	Artificial Intelligence : Search Methods for Problem Solving (July-Dec 2022)	10
120	Electronics and Communication Engineering	Artistic Exploration in Scientific Research and Technology (July-Dec 2022)	1
121	Electronics and Communication Engineering	Basic Electric Circuits (July-Dec 2022)	46
122	Electronics and Communication Engineering	Blockchain Architecture Design and Use Cases (July-Dec 2022)	2
123	Electronics and Communication Engineering	Body Language: Key to Professional Success (July-Dec 2022)	18
124	Electronics and Communication Engineering	Business Analytics & Data Mining Modeling Using R Part II (July-Dec 2022)	2
125	Electronics and Communication Engineering	C Programming and Assembly Language (July-Dec 2022)	11
126	Electronics and Communication Engineering	Calculus of One Real Variable (July-Dec 2022)	28
127	Electronics and Communication Engineering	Calculus of Several Real Variables (July-Dec 2022)	2
128	Electronics and Communication Engineering	Chemical Crystallography (July-Dec 2022)	1
129	Electronics and Communication Engineering	Cloud Computing (July-Dec 2022)	7
130	Electronics and Communication Engineering	Computational Electromagnetics (July-Dec 2022)	3
131	Electronics and Communication Engineering	Computational Physics (July-Dec 2022)	1
132	Electronics and Communication Engineering	Computer numerical control CNC of machine tools and processes (July-Dec 2022)	1
133	Electronics and Communication Engineering	Computer Vision (July-Dec 2022)	2
134	Electronics and Communication Engineering	Control engineering	2
135	Electronics and Communication Engineering	Control systems	6
136	Electronics and Communication Engineering	Data Base Management System (July-Dec 2022)	34

137	Electronics and Communication Engineering	Data Science for Engineers (July-Dec 2022)	6
138	Electronics and Communication Engineering	DC Microgrid (July-Dec 2022)	1
139	Electronics and Communication Engineering	Decision-Making Under Uncertainty (July-Dec 2022)	2
140	Electronics and Communication Engineering	Deep Learning - Part 1 (July-Dec 2022)	3
141	Electronics and Communication Engineering	Demystifying Networking (July-Dec 2022)	1
142	Electronics and Communication Engineering	Design and analysis of algorithms (July-Dec 2022)	2
143	Electronics and Communication Engineering	Design of fixed wing Unmanned Aerial Vehicles (July-Dec 2022)	1
144	Electronics and Communication Engineering	Design Thinking - A Primer (July-Dec 2022)	11
145	Electronics and Communication Engineering	Design Thinking - A Primer (July-Dec 2022)	3
146	Electronics and Communication Engineering	Developing Soft Skills and Personality (July-Dec 2022)	17
147	Electronics and Communication Engineering	Digital Circuits (July-Dec 2022)	44
148	Electronics and Communication Engineering	Digital Image Processing (July-Dec 2022)	20
149	Electronics and Communication Engineering	Digital Switching - I (July-Dec 2022)	4
150	Electronics and Communication Engineering	Discrete Mathematics (July-Dec 2022)	3
151	Electronics and Communication Engineering	Electrical Distribution System Analysis (July-Dec 2022)	1
152	Electronics and Communication Engineering	Electrical Machines - I (July-Dec 2022)	1
153	Electronics and Communication Engineering	Electrical Machines (July-Dec 2022)	1
154	Electronics and Communication Engineering	Electrical Machines (July-Dec 2022)	2
155	Electronics and Communication Engineering	Electrical Measurement and Electronic Instruments (July-Dec 2022)	2
156	Electronics and Communication Engineering	Ethical Hacking (July-Dec 2022)	18
157	Electronics and Communication Engineering	Ethics in Engineering Practice (July-Dec 2022)	2
158	Electronics and Communication Engineering	Experimental Physics - II (July-Dec 2022)	1
159	Electronics and Communication Engineering	Fabrication Techniques for MEMs-Based Sensors: Clinical Perspective (July-Dec 2022)	2
160	Electronics and Communication Engineering	Fiber-Optic Communication Systems and Techniques (July-Dec 2022)	1
161	Electronics and Communication Engineering	Fundamentals of Artificial Intelligence (July-Dec 2022)	5
162	Electronics and Communication Engineering	Fundamentals of Electric Drives (July-Dec 2022)	1
163	Electronics and Communication Engineering	Fundamentals of Electrical and Electronics Engineering (July-Dec 2022)	1

164	Electronics and Communication Engineering	Fundamentals of electronic device fabrication (July-Dec 2022)	1
165	Electronics and Communication Engineering	Fundamentals of micro and nanofabrication (July-Dec 2022)	1
166	Electronics and Communication Engineering	Game theory (July-Dec 2022)	2
167	Electronics and Communication Engineering	Genetic Engineering: Theory and Application (July-Dec 2022)	1
168	Electronics and Communication Engineering	German-I (July-Dec 2022)	5
169	Electronics and Communication Engineering	Global Navigation Satellite Systems and Applications (July-Dec 2022)	2
170	Electronics and Communication Engineering	Hardware modeling using verilog (July-Dec 2022)	1
171	Electronics and Communication Engineering	Higher Engineering Mathematics (July-Dec 2022)	1
172	Electronics and Communication Engineering	Human Computer Interactions (July-Dec 2022)	1
173	Electronics and Communication Engineering	Inclusion and Technology Design (July-Dec 2022)	1
174	Electronics and Communication Engineering	Infrared Spectroscopy for Pollution Monitoring (July-Dec 2022)	1
175	Electronics and Communication Engineering	Innovation by Design (July-Dec 2022)	1
176	Electronics and Communication Engineering	Innovation, Business Models and Entrepreneurship (July-Dec 2022)	1
177	Electronics and Communication Engineering	Integral Transforms and their Applications (July-Dec 2022)	3
178	Electronics and Communication Engineering	Integral Transforms and their Applications (July-Dec 2022)	1
179	Electronics and Communication Engineering	Intermediate Level of Spoken Sanskrit (July-Dec 2022)	1
180	Electronics and Communication Engineering	Interpersonal Skills (July-Dec 2022)	1
181	Electronics and Communication Engineering	Introduction to Abstract and Linear Algebra (July-Dec 2022)	2
182	Electronics and Communication Engineering	Introduction to Abstract and Linear Algebra (July-Dec 2022)	1
183	Electronics and Communication Engineering	Introduction to Abstract Group Theory (July-Dec 2022)	1
184	Electronics and Communication Engineering	Introduction to Electromagnetic Theory (July-Dec 2022)	10
185	Electronics and Communication Engineering	Introduction to Fuzzy Set Theory, Arithmetic and Logic (July-Dec 2022)	11
186	Electronics and Communication Engineering	Introduction to Internet of Things (July-Dec 2022)	39
187	Electronics and Communication Engineering	Introduction to Japanese Language and Culture (July-Dec 2022)	1
188	Electronics and Communication Engineering	Introduction to Machine Learning (July-Dec 2022)	23
189	Electronics and Communication Engineering	Introduction to methods of Applied Mathematics (July-Dec 2022)	1
190	Electronics and Communication Engineering	Introduction to Operating Systems (July-Dec 2022)	2

191	Electronics and Communication Engineering	Introduction to Parallel Programming in Open MP (July-Dec 2022)	1
192	Electronics and Communication Engineering	Introduction to Programming in C (July-Dec 2022)	56
193	Electronics and Communication Engineering	Introduction to R Software (July-Dec 2022)	1
194	Electronics and Communication Engineering	Introduction to Rings and Fields (July-Dec 2022)	1
195	Electronics and Communication Engineering	Introduction to Smart Grid (July-Dec 2022)	2
196	Electronics and Communication Engineering	Introduction to Statistical Mechanics (July-Dec 2022)	1
197	Electronics and Communication Engineering	Introduction to Wireless and Cellular Communications (July-Dec 2022)	5
198	Electronics and Communication Engineering	Introduction to Wireless and Cellular Communications (July-Dec 2022)	2
199	Electronics and Communication Engineering	Linear System Theory (July-Dec 2022)	1
200	Electronics and Communication Engineering	Machine Learning for Engineering and Science Applications (July-Dec 2022)	3
201	Electronics and Communication Engineering	Machine Learning for Engineering and Science Applications (July-Dec 2022)	2
202	Electronics and Communication Engineering	Mapping Signal Processing Algorithms to Architectures (July-Dec 2022)	1
203	Electronics and Communication Engineering	Mapping Signal Processing Algorithms to Architectures (July-Dec 2022)	1
204	Electronics and Communication Engineering	Mathematical Finance (July-Dec 2022)	1
205	Electronics and Communication Engineering	Mathematical Methods for Boundary Value Problems (July-Dec 2022)	1
206	Electronics and Communication Engineering	Matrix Analysis with Applications (July-Dec 2022)	1
207	Electronics and Communication Engineering	Microelectronics: Devices to Circuits (July-Dec 2022)	8
208	Electronics and Communication Engineering	Microelectronics: Devices to Circuits (July-Dec 2022)	1
209	Electronics and Communication Engineering	Microwave Engineering (July-Dec 2022)	2
210	Electronics and Communication Engineering	Microwave Engineering (July-Dec 2022)	1
211	Electronics and Communication Engineering	Microwave Theory and Techniques (July-Dec 2022)	2
212	Electronics and Communication Engineering	Modern Algebra (July-Dec 2022)	2
213	Electronics and Communication Engineering	Neural Networks for Signal Processing - I (July-Dec 2022)	2
214	Electronics and Communication Engineering	Neural Networks for Signal Processing - I (July-Dec 2022)	1
215	Electronics and Communication Engineering	Numerical methods (July-Dec 2022)	2
216	Electronics and Communication Engineering	Numerical methods (July-Dec 2022)	2
217	Electronics and Communication Engineering	Numerical methods (July-Dec 2022)	1
218	Electronics and Communication Engineering	Numerical Methods and Simulation Techniques for Scientists and Engineers (July-Dec 2022)	2

219	Electronics and Communication Engineering	Object oriented analysis and design (July-Dec 2022)	1
220	Electronics and Communication Engineering	Op-Amp Practical Applications: Design, Simulation and Implementation (July-Dec 2022)	15
221	Electronics and Communication Engineering	Operating System Fundamentals (July-Dec 2022)	2
222	Electronics and Communication Engineering	Operations Research (July-Dec 2022)	1
223	Electronics and Communication Engineering	Patent Drafting for Beginners (July-Dec 2022)	1
224	Electronics and Communication Engineering	Path Integral and functional methods in quantum field theory (July-Dec 2022)	1
225	Electronics and Communication Engineering	Path Integral and functional methods in quantum field theory (July-Dec 2022)	1
226	Electronics and Communication Engineering	Pattern Recognition and Application (July-Dec 2022)	1
227	Electronics and Communication Engineering	Pattern Recognition and Application (July-Dec 2022)	1
228	Electronics and Communication Engineering	Physics of Turbulence (July-Dec 2022)	1
229	Electronics and Communication Engineering	Positive Psychology (July-Dec 2022)	1
230	Electronics and Communication Engineering	Power Electronics (July-Dec 2022)	1
231	Electronics and Communication Engineering	Power Electronics (July-Dec 2022)	1
232	Electronics and Communication Engineering	Power System Analysis (July-Dec 2022)	1
233	Electronics and Communication Engineering	Practical Machine Learning with Tensorflow (July-Dec 2022)	1
234	Electronics and Communication Engineering	Practical Machine Learning with Tensorflow (July-Dec 2022)	2
235	Electronics and Communication Engineering	Principles and Techniques of Modern Radar Systems (July-Dec 2022)	1
236	Electronics and Communication Engineering	Principles of Communication Systems - Part II (July-Dec 2022)	21
237	Electronics and Communication Engineering	Principles of Communication Systems - Part II (July-Dec 2022)	1
238	Electronics and Communication Engineering	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (July-Dec 2022)	9
239	Electronics and Communication Engineering	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (July-Dec 2022)	1
240	Electronics and Communication Engineering	Problem Solving through Programming in C (July-Dec 2022)	43
241	Electronics and Communication Engineering	Problem Solving through Programming in C (July-Dec 2022)	4
242	Electronics and Communication Engineering	Programming in C++ (July-Dec 2022)	18
243	Electronics and Communication Engineering	Programming In Java (July-Dec 2022)	37
244	Electronics and Communication Engineering	Programming In Java (July-Dec 2022)	1
245	Electronics and Communication Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	29

246	Electronics and Communication Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	2
247	Electronics and Communication Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	2
248	Electronics and Communication Engineering	Psychology of Everyday	15
249	Electronics and Communication Engineering	Psychology of Everyday (July-Dec 2022)	1
250	Electronics and Communication Engineering	Python for Data Science (July-Dec 2022)	1
251	Electronics and Communication Engineering	Quantum Computing (July-Dec 2022)	1
252	Electronics and Communication Engineering	Regression analysis (July-Dec 2022)	1
253	Electronics and Communication Engineering	Robotics (July-Dec 2022)	3
254	Electronics and Communication Engineering	Sensors and Actuators (July-Dec 2022)	3
255	Electronics and Communication Engineering	Social Networks (July-Dec 2022)	1
256	Electronics and Communication Engineering	Soft skills (July-Dec 2022)	4
257	Electronics and Communication Engineering	Software Project Management (July-Dec 2022)	1
258	Electronics and Communication Engineering	Solar Photovoltaics Fundamentals, Technology and Applications (July-Dec 2022)	1
259	Electronics and Communication Engineering	Solid State Physics (July-Dec 2022)	1
260	Electronics and Communication Engineering	Stochastic Processes (July-Dec 2022)	1
261	Electronics and Communication Engineering	Stress Management (July-Dec 2022)	3
262	Electronics and Communication Engineering	Switching Circuits and Logic Design (July-Dec 2022)	38
263	Electronics and Communication Engineering	Synthesis of Digital Systems (July-Dec 2022)	2
264	Electronics and Communication Engineering	Technical english for engineers (July-Dec 2022)	10
265	Electronics and Communication Engineering	The Joy of Computing using Python (July-Dec 2022)	54
266	Electronics and Communication Engineering	The Psychology of Language (July-Dec 2022)	1
267	Electronics and Communication Engineering	Theoretical Mechanics (July-Dec 2022)	1
268	Electronics and Communication Engineering	Understanding Design (July-Dec 2022)	1
269	Electronics and Communication Engineering	Waves and Oscillations (July-Dec 2022)	1
270	Electronics and Communication Engineering	Work System Design (July-Dec 2022)	1
271	Information Technology	An Introduction to Programming through C++ (July-Dec 2022)	1

272	Information Technology	An Introduction to Programming through C++ (July-Dec 2022)	36
273	Information Technology	Applied Natural Language Processing (July-Dec 2022)	3
274	Information Technology	Artificial Intelligence : Search Methods for Problem Solving (July-Dec 2022)	8
275	Information Technology	Blockchain Architecture Design and Use Cases (July-Dec 2022)	4
276	Information Technology	Body Language: Key to Professional Success(July-Dec 2022)	1
277	Information Technology	C Programming and Assembly Language (July-Dec 2022)	1
278	Information Technology	C Programming and Assembly Language (July-Dec 2022)	6
279	Information Technology	Calculus of One Real Variable (July-Dec 2022)	1
280	Information Technology	Calculus of One Real Variable (July-Dec 2022)	10
281	Information Technology	Cloud Computing (July-Dec 2022)	16
282	Information Technology	Corporate Social Responsibility (July-Dec 2022)	1
283	Information Technology	Data Base Management System (July-Dec 2022)	43
284	Information Technology	Data Science for Engineers (July-Dec 2022)	6
285	Information Technology	Deep Learning (July-Dec 2022)	1
286	Information Technology	Demystifying Networking (July-Dec 2022)	8
287	Information Technology	Design and analysis of algorithms (July-Dec 2022)	59
288	Information Technology	Developing Soft Skills and Personality (July-Dec 2022)	14
289	Information Technology	Development Research Methods (July-Dec 2022)	1
290	Information Technology	Digital Circuits (July-Dec 2022)	1
291	Information Technology	Engineering Mechanics (July-Dec 2022)	1
292	Information Technology	Ethical Hacking	36
293	Information Technology	Fundamentals of Artificial Intelligence (July-Dec 2022)	1
294	Information Technology	Gender Justice and Workplace Security	3
295	Information Technology	Introduction to Internet of Things (July-Dec 2022)	20
296	Information Technology	Introduction to Machine Learning (July-Dec 2022)	71
297	Information Technology	Introduction to Operating Systems (July-Dec 2022)	1
298	Information Technology	Introduction to Programming in C (July-Dec 2022)	22
299	Information Technology	Introduction to Programming in C (July-Dec 2022)	1
300	Information Technology	Machine Learning for Engineering and Science Applications (July-Dec 2022)	12

301	Information Technology	Natural Language Processing (July-Dec 2022)	1
302	Information Technology	Object oriented analysis and design (July-Dec 2022)	3
303	Information Technology	Operating System Fundamentals (July-Dec 2022)	1
304	Information Technology	Pattern Recognition and Application (July-Dec 2022)	1
304	Information Technology	Positive Psychology (July-Dec 2022)	2
305	Information Technology	Practical Machine Learning with Tensorflow (July-Dec 2022)	2
306	Information Technology	Problem Solving through Programming in C (July-Dec 2022)	11
307	Information Technology	Programming in C++ (July-Dec 2022)	48
308	Information Technology	Programming In Java (July-Dec 2022)	73
309	Information Technology	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	74
310	Information Technology	Psychology of Everyday (July-Dec 2022)	3
311	Information Technology	Python for Data Science (July-Dec 2022)	27
312	Information Technology	Quantum Computing (July-Dec 2022)	1
313	Information Technology	Social Networks (July-Dec 2022)	3
314	Information Technology	Soft skills (July-Dec 2022)	1
315	Information Technology	Software Engineering (July-Dec 2022)	14
316	Information Technology	Software Project Management (July-Dec 2022)	5
317	Information Technology	Software testing (July-Dec 2022)	3
318	Information Technology	Technical english for engineers (July-Dec 2022)	1
319	Information Technology	The Joy of Computing using Python (July-Dec 2022)	34
320	Information Technology	Theory of Computation (July-Dec 2022)	1

Table 9.4.3. List of NPTEL Courses completed by Students

S.no	Mentor Name(Faculty)	Course Id	Course Name	Mentee count
1	Vulugundam Anitha	noc22-cs102	Programming In Java	12
2	D.Anusha	noc22-cs100	Operating System Fundamentals	2
3	T.Aparna	noc22-cs102	Programming In Java	1
4	Seshabhargavi Velagaleti	noc22-cs97	Introduction to Machine Learning	9
5	Dr. Sasidhar Bola	noc22-cs102	Programming In Java	6
6	Chandra Shaker Arrabotu	noc22-cs92	Data Structure and Algorithms using Java	1
7	Chandra Shaker Arrabotu	noc22-cs95	Introduction To Industry 4.0 And Industrial Internet Of Things	4
8	Ch. Radhika	noc22-cs88	Computer architecture and organization	2
9	S Sandhya	noc22-cs100	Operating System Fundamentals	18
10	K. Gnana Prasuna	noc22-cs100	Operating System Fundamentals	5
11	K Sridevi	noc22-cs122	The Joy of Computing using Python	40
12	Adabala Sneha Keerthi	noc22-cs97	Introduction to Machine Learning	2

13	Adabala Sneha Keerthi	noc22-ee110	Digital Circuits	1
14	Chleelakrishna	noc22-cs101	Problem Solving Through Programming In C	1
15	Dr.D.V.Lalita Parameswari	noc22-cs100	Operating System Fundamentals	12
16	Ch Mandakini	noc22-cs122	The Joy of Computing using Python	30
17	Akula Nageswari	noc22-cs101	Problem Solving Through Programming In C	1
18	N.Divya	noc22-cs122	The Joy of Computing using Python	21
19	Nagababu Garigipati	noc22-cs88	Computer architecture and organization	24
20	Ooruchintala Obulesu	noc22-cs91	Data Base Management System	11
21	N Ramakrishna	noc22-cs122	The Joy of Computing using Python	2
22	N Ramakrishna	noc22-mg75	Design Thinking - A Primer	1
23	Roja Gurrapu	noc22-cs102	Programming In Java	36
24	Supriya Vaddi	noc22-cs97	Introduction to Machine Learning	7
25	T Ammannamma	noc22-cs101	Problem Solving Through Programming In C	1
26	Vadde Usha	noc22-cs122	The Joy of Computing using Python	12
27	N Venkateswarulu	noc22-cs122	The Joy of Computing using Python	44

Massive Open Online Courses (MOOCs)

MOOCS provide an free and flexible platform to learn new skills to advance career for staff and deliver quality education at large scale. It offers certificates from IITS / IISC for those who completed the courses successfully.

https://mooc.org (https://mooc.org/)

NDLI (National Digital Library of India)

This is a virtual repository of learning resources which is not just a repository with search/browse facilities but also provides a host of services including textbooks, articles, videos, audios, lectures and all other kinds of learning materials for the self-learning users.

https://ndl.iitkgp.ac.in (https://ndl.iitkgp.ac.in/) www.ndl.gov.in (http://www.ndl.gov.in/)

MIT Open (MIT Open courseware)

This courseware is an online publication of material from over 2,500 MIT courses, freely sharing knowledge with learners and educators around **(Free online** the world. MIT could be accessed in the Central Library **course Material)**

www.ocw.mit.edu (http://www.ocw.mit.edu/)

SONET (Society for Networking for excellence in technical education)

The Department of Technical education, State Govt., as part of its efforts for networking for excellence in technical education of has initiated an innovative teaching methodology. The project develops CD's, DVD's containing Lectures on various engineering subjects which is sent to the Colleges for Self-learning.

Additional Resources for online learning for staff and students are encouraged with the following facilities:

- Digital Library has been established in the central Library
- Web based learning
- Learning club activities
- Webinars
- Internet& facility free and open learning environment
- Department Library
- e-learning materials has been prepared by the department faculty
- Institutional e-repositories
- EBSCO IEEE online Journals
- DELNET-online Journals
- J-GATE Database
- Open sources self-learning databases.
- Campus provide Wi-Fi facility.
- Library on web (http://gnitslibrary.pbworks.com/ (http://gnitslibrary.pbworks.com/))

Coursera

Coursera offers more than 3,800 cutting-edge courses, all taught by top instructors from over 200 leading universities and companies like Yale, University of Michigan, Google and IBM. Table 9.4.4 shows the list faculty Completed Coursera modules.

www.cousera.org (http://www.cousera.org/)

Table 9.4.4. List of faculty/students Completed Coursera modules

Full Name	Date of Joining	Course Enrolment	No. of Enrolments
G. Sai Lalitha	2024-01-03T14:51:22.095Z	Machine Learning Pipelines with Azure ML Studio	1
Ravali K	2022-03-07T05:19:43.702Z	Business Analytics for Decision Making	1
Athkuri Sahithi	2022-01-24T18:33:58.037Z	Introduction to HTML5, Web Design for Everybody: Basics of Web Development & Coding	1
Shravani Athkuri	2021-10-05T08:54:03.380Z	An Introduction to Interactive Programming in Python (Part 1)	1

Nabila Hashim	2023-10-25T00:48:10.374Z	Using Basic Formulas and Functions in Microsoft Excel, Introduction to Business Analysis Using Spreadsheets: Basics, Business Analysis & Process Management, build a Data Science Web App with Streamlet and Python, Introduction to Data Analysis using Microsoft Excel, Conditional Formatting, Tables and Charts in Microsoft Excel	6
Dr Renuka Devi	2023-10-14T06:18:44.925Z	Deep Learning with PyTorch: Image Segmentation, Deep Learning with PyTorch: Neural Style Transfer, Deep Learning with PyTorch: Generative Adversarial Network, Basic Image Classification with TensorFlow	4
Abhigna Nadupalli	2021-10-05T08:53:29.836Z	Web Application Technologies and Django	1
Achala.M	2021-10-05T08:53:39.306Z		1
Padmaja C	2023-07-14T17:37:20.762Z	Create Your First Python Program From UST	1
Afifa	2021-10-05T08:54:06.665Z	Create and Design Digital Products using Canva, Engineering Project Management: Scope, Time and Cost Management	2
Aishwarya Mundrati	2021-10-05T08:53:26.039Z	Introduction to the Internet of Things and Embedded Systems, An Introduction to Programming the Internet of Things (IOT)	1
Akhila. A. R	2021-11-25T06:00:32.207Z	Preparing to Manage Human Resources, Human Resource Management: HR for People Managers	1
Aswitha Sammeta	2023-01-30T16:59:01.503Z	Creating a Budget with Microsoft Excel, Command Line in Linux, Introduction to Microsoft Excel, AWS S3 Basics, Introduction to Bash Shell Scripting	5
D.Akhila	2021-10-05T08:53:48.900Z	Programming for Everybody (Getting Started with Python)	1
Akshara Reddy	2021-10-05T08:54:08.393Z	Build a Data Science Web App with Streamlit and Python, Introduction to Artificial Intelligence (AI), Create a Superhero Name Generator with TensorFlow, Introduction to Discrete Mathematics for Computer Science	3
Akshitha Shesham	2023-01-26T08:37:34.368Z	Azure Synapse SQL Pool - Implement Polybase	1
Akshitha Bandari	2021-10-05T08:53:46.422Z	HTML, CSS, and Java script for Web Developers	1
Alekhya Pathak	2021-10-05T08:53:51.655Z	IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies	1
Leela	2021-10-05T08:53:32.371Z	Web Application Technologies and Django	1
Amrutha Sai.E	2021-12-13T12:00:56.861Z	Deep Learning with PyTorch: Image Segmentation, Technical Support Fundamentals, Create a Profile and Network on LinkedIn	3
Amulya Dasari	2021-10-05T08:53:42.377Z	Business Analytics for Decision Making	1
Amulya Gajjela	2021-10-05T08:54:03.324Z	HTML, CSS, and JavaScript for Web Developers	1
Kavyareddy	2023-01-27T22:32:37.160Z	Build your first Machine Learning Pipeline using Dataiku	2
Potu Bhargavi	2022-08-23T14:00:27.897Z	Modern JavaScript: ES6 Basics	1
K.Manasvi Rao	2022-08-03T15:26:55.403Z	Business Analysis & Process Management	1
G.Anoohya	2021-10-05T08:53:32.553Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Anusha Dokka	2021-10-05T08:53:46.734Z	Build a Full Website using WordPress, Full-Stack Web Development with React	2
A. Anusha Reddy	2021-10-05T08:53:40.566Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Arpita Bejugam	2021-10-05T08:54:07.822Z	Foundations: Data, Data, Everywhere, Google Data Analytics, Data Science	1
Arukala Sahithi	2023-06-19T10:12:12.264Z	Modern JavaScript: ES6 Basics	1
V.BHUVANANI	2021-10-05T08:53:51.642Z	Programming Foundations with JavaScript, HTML and CSS	1
V. Tejitha	2022-04-08T07:42:02.503Z	Create Your First Python Program From UST	2
S.Vidya	2021-10-05T08:53:26.586Z	Digital Systems: From Logic Gates to Processors	1
Ayesha Fatima	2021-10-05T08:53:50.894Z	Business Model Canvas: A Tool for Entrepreneurs and Innovators (Project-Centred Course)	1
Ayushi Verma	2021-10-05T08:53:54.322Z	Foundations: Data, Data, Everywhere, Create Financial Statement using Microsoft Excel, Investment Risk Management, Google Data Analytics	3
Chareeshma Yerrabathina	2022-03-31T05:27:26.789Z	Fine Tune BERT for Text Classification with TensorFlow, Deep Learning with PyTorch : Neural Style Transfer, Deep Learning with PyTorch : Generative Adversarial Network	3
B.Abhinaya	2021-10-05T08:53:51.973Z	JavaScript Basics, Google Project Management, JavaScript for Beginners	1

Bandi Vidya Sree	2021-10-05T08:53:56.251Z	Crash Course on Python, Google IT Automation with Python, Android App Development	1
Nunna Bharathi Sri Divya	2023-07-07T10:18:57.361Z	Create a Financial Statement using Microsoft Excel	1
Bhargavi Chinthala	2021-10-05T08:53:24.755Z	Troubleshooting and Debugging Techniques	1
Kalyani Bhargavi	2021-10-05T08:53:35.644Z	Tweet Emotion Recognition with TensorFlow	1
Naha babu	2022-03-31T05:24:13.170Z	Deep Learning with PyTorch: Image Segmentation, AWS S3 Basics	2
G Bhavya Sree	2022-03-31T05:15:56.586Z	Custom Prediction Routine on Google AI Platform, Azure: create a REST API using NodeJS Serverless Functions, AWS S3 Basics	3
Kallem Bhuvaneshwari Reddy	2021-10-05T08:53:45.710Z	Cybersecurity and the Internet of Things	1
P. Buchibabu	2021-10-05T08:53:37.146Z	Introduction to FPGA Design for Embedded Systems, Algorithms for Battery Management Systems, FPGA Design for Embedded Systems	1
R.V. SUMANA	2022-03-26T13:00:07.475Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Ch Swathi	2021-10-05T08:53:57.017Z	Python Functions, Files, and Dictionaries, Preparing for Google Cloud Certification: Cloud Architect, Python 3 Programming	1
Ch Swathi	2021-10-05T08:54:04.057Z	Cybersecurity Roles, Processes & Operating System Security	1
Chakilam Naina	2021-10-05T08:53:51.106Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
Challa Sai Charitha	2021-10-05T08:53:41.445Z	Java for Android, Build a Data Science Web App with Streamlet and Python, Introduction to Basic Game Development using Scratch, Django for Everybody	5
Abhigna	2022-03-08T07:02:50.660Z	Crash Course on Python, Google IT Automation with Python	1
18251A05C2 ARCOT SUPRIYA	2022-03-07T04:46:21.029Z	Introduction to Data Analytics for Business, Advanced Business Analytics	1
Chekuri Sai Sri Keerthana	2021-10-05T08:53:37.817Z	Internet of Things: How did we get here? Google IT Support	1
Ch Akila	2021-10-05T08:53:39.303Z	Creative Writing: The Craft of Plot, Creative Writing	1
Ch.Tejaswini	2021-10-05T08:53:36.637Z	Django Features and Libraries, Data Structures and Algorithms	1
Chinnala Anusha	2021-10-05T08:54:04.174Z	Build a mobile app with Google Sheets on Glide and no coding	1
Siri chandana.A	2021-10-05T08:53:46.143Z	VLSI CAD Part I: Logic	1
D.Aparna	2021-10-05T08:53:39.195Z	Java for Android, Android App Development	1
M.Darpana Reddy	2021-10-11T04:40:46.620Z	Social Psychology	1
Ravula Deeksha	2021-10-05T08:54:02.365Z	Introduction to HTML5, Build a Full Website using WordPress, Web Design for Everybody: Basics of Web Development & Coding	4
Deekshitha Matam	2021-10-05T08:53:51.473Z	Introduction to Data Analytics for Business	1
Deekshitha	2021-10-05T08:53:49.448Z	Machine Learning Pipelines with Azure ML Studio, Google Data Studio - Creation de Tableaux de Bords Interactifs, HTML, CSS, and JavaScript for Web Developers	3
GAJJELA SRI DEEPTHI	2022-11-07T18:39:58.457Z	Introduction to Microsoft Excel	1
DHANNARAM SHIVANI	2021-10-05T08:53:37.253Z	AI For Everyone	1
Dibyadarshani Patra	2021-10-05T08:53:36.498Z	Create Serverless Applications, Microsoft Azure Developer Associate (AZ-204), Blockchain Revolution in Financial Services, Blockchain Revolution	1
Diksha Kaul	2021-10-05T08:53:41.243Z	Fundamentals of Audio and Music Engineering: Part 1 Musical Sound & Electronics	1

N Ramakrishna	2021-10-20T04:54:25.516Z	Deep Learning with PyTorch : Image Segmentation ,Creating a Budget with Microsoft Excel , Create a Simple Gantt Chart using Microsoft Excel, Custom Prediction Routine on Google AI Platform, Creating Interactive Learning Videos with Edpuzzle, Create Your First Web App with Python and Flask, Introduction to Microsoft Excel, Getting Started with Kaggle , Improving Content Mastery with Quizlet, Exploratory Data Analysis with Seaborn, Hyperparameter Tuning with Keras Tuner, Create a Profile and Network on LinkedIn, Basic Image Classification with TensorFlow, Neural Networks and Deep Learning, Overview of Data Visualization, Deep Learning	15
Dodda Vyshali	2021-10-05T08:53:53.462Z	Java Programming: Solving Problems with Software, AWS Fundamentals	1
D.Ashritha	2021-11-17T10:28:37.066Z	HTML, CSS, and JavaScript for Web Developers	1
C.Saraswathi	2021-10-05T08:54:06.837Z	Excel Skills for Business: Essentials, Excel Skills for Business	1
MADHULIKA ERUKULLA	2021-10-05T08:53:45.477Z	Google Cloud Fundamentals: Core Infrastructure, Google IT Automation with Python, Preparing for Google Cloud Certification: Cloud DevOps Engineer	1
Adiraju Gayathri	2021-10-05T08:54:05.738Z	Crash Course on Python, Google IT Automation with Python, AWS Fundamentals	1
FAIZA FATIMA	2021-10-05T08:53:36.311Z	Share Data Through the Art of Visualization	1
NIMMALA HARSHITHA	2021-10-05T08:54:05.323Z	Python Basics, Python for Everybody, Python 3 Programming	1
Rucha Dhodapkar	2021-10-05T08:54:05.182Z	Build a Data Science Web App with Streamlit and Python, Create Your First Web App with Python and Flask, Foundations: Data, Data, Everywhere, Google Data Analytics	3
G.Sushma	2021-10-05T08:53:24.751Z	Machine Learning Foundations: A Case Study Approach, Digital Marketing, Machine Learning	1
G.Harika	2021-10-05T08:53:47.316Z	Open-Source Software Development Methods, Open-Source Software Development, Linux and Git	1
G.Nikhitha	2021-10-05T08:53:37.733Z	Crash Course on Python, Google IT Automation with Python	1
Gayatri Shastri	2021-10-05T08:53:35.650Z	AWS S3 Basics, Building Scalable Java Microservices with Spring Boot and Spring Cloud	2
GBNS SUCHARITHA	2022-12-29T12:36:37.366Z	Create Your First Web App with Python and Flask, Machine Learning Pipelines with Azure ML Studio	2
Gadireddi Chaitanya Deepti	2023-02-06T07:27:40.779Z	Azure: Create a Virtual Machine and Deploy a Web Server, Machine Learning Pipelines with Azure ML Studio	2
Guda Dharani	2021-10-05T08:53:59.896Z		1
Nabeela Akhtar	2021-10-05T08:54:04.328Z	Foundations of User Experience (UX) Design, Google UX Design	1
G Hasitha	2021-10-05T08:53:27.316Z	Convolutional Neural Networks, Graphic Design	1
G.Lakshmi Tejaswy	2022-05-16T17:25:38.029Z	5 Ways to Build a Better LinkedIn Profile, Utilize LinkedIn for Career Search, Preparation for Job Interviews, Accomplishment STAR Techniques for Job Interviews, Create a Profile and Network on LinkedIn, Modern JavaScript: ES6 Basics	6
Chetkuri Gouthami	2021-10-05T08:53:32.723Z	Programming for Everybody (Getting Started with Python)	1
Didla Grace Meghna	2023-01-04T06:10:58.650Z	Build a Data Science Web App with Streamlit and Python	2
G Sumitra Priyamvada	2021-10-05T08:54:06.183Z	Financial Markets	1
G.Rajini	2021-10-05T08:53:56.617Z	Algorithmic Toolbox, Data Structures and Algorithms	1
Chindam Hari Prasad	2021-10-05T08:53:48.376Z	Crash Course on Python, Google IT Automation with Python	1
Harika Endrala	2021-10-05T08:53:54.063Z	Spring MVC, Spring Boot and Rest Controllers	1
Kolipaka Harikha	2021-10-05T08:53:51.442Z	Machine Learning Foundations: A Case Study Approach	1
Ala Harini	2021-10-05T08:53:36.061Z	The Data Scientist â€™s Toolbox, Data Science	1
Sowgnadhika Reddy	2021-10-05T08:54:04.217Z	Machine Learning Pipelines with Azure ML Studio, Introduction to Data Science in Python, How to create a Jira SCRUM project, Applied Data Science with Python, Machine Learning	3
V N S SRIHARSHITHA P	2021-10-05T08:54:03.460Z	Cybersecurity Roles, Processes & Operating System Security	1
Harshitha	2021-10-05T08:53:34.383Z	Convolutional Neural Networks	1

Lethakula Himaaditi	2021-10-05T08:53:39.694Z	Web Application Technologies and Django, Azure: create a REST API using NodeJS Serverless Functions, Create Your First Web App with Python and Flask, Django for Everybody	3
Akkinapalli Jahnavi	2021-10-05T08:54:03.744Z	Python Data Structures	1
G.Janvitha Reddy	2021-10-05T08:53:29.592Z	#talkmentalillness	1
Jayasree Kokkonda	2021-10-05T08:53:37.380Z	Advanced Data Structures in Java	1
Jeedipally vaishnavi	2021-10-05T08:54:05.230Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1
T.Jyothi	2021-10-05T08:53:47.276Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1
K.Divya Murthy	2021-10-05T08:54:07.396Z	English for Career Development, Google Data Analytics	1
M.Abhigna	2021-10-05T08:54:03.801Z	Introduction to Marketing, Business Foundations	1
Shivakumar Kagi	2021-10-05T08:53:28.037Z	Crash Course on Python, Google IT Automation with Python, Google Data Analytics	1
Kaja Niharika	2021-10-05T08:54:00.429Z	Mastering Programming with MATLAB	1
P.Sadhvi Reddy	2021-10-05T08:54:02.875Z	Principles of Public Relations	1
K. Kamaneeya	2021-10-05T08:53:54.364Z	AWS Cloud Technical Essentials, Django for Everybody, AWS Fundamentals	1
K.Malavika	2021-10-05T08:53:59.330Z	Learning How to Learn: Powerful mental tools to help you master tough subjects	1
Sheshagiri	2021-10-05T08:53:27.426Z	Excel Fundamentals for Data Analysis, Excel Skills for Data Analytics and Visualization	1
Chandra Shaker Arrabotu	2021-10-05T08:54:01.431Z	Big Data Emerging Technologies, Emerging Technologies: From Smartphones to IoT to Big Data, Blockchain	1
KALA MEHAK JAIN	2021-10-05T08:54:00.875Z	AI For Everyone,Linear Regression with NumPy and Python	2
K.Kavya	2021-10-05T08:53:35.495Z	Songwriting: Writing the Lyrics, Songwriting: Writing, Arranging, and Producing Music	1
Keerthana Adavelli	2021-10-05T08:53:58.184Z	Introduction to Psychology, Data Science	1
Keerthana Racharla	2021-10-05T08:53:45.738Z	Create and Design Digital Products using Canva, Foundations: Data, Data, Everywhere, building a Business Presence With Facebook Marketing, Build a Full Website using WordPress, Google IT Automation with Python, Google Data Analytics	5
Poojasree Keerthipati	2021-10-05T08:53:35.563Z	Foundations: Data, Data, everywhere	1
UBL KEERTHANA	2021-10-05T08:53:59.723Z	Foundations of Project Management, Google Project Management:Google Data Analytics	1
B. Jaya Naga Keerthi Singh	2021-10-05T08:53:30.943Z	Enhancing Communication with Remind, Learning How to Learn: Powerful mental tools to help you master tough subjects	2
Somepally Srikeerthi	2021-10-05T08:53:37.433Z	Programming for Everybody (Getting Started with Python), Introductory C Programming	1
Keshav Kumar Kampe	2021-10-05T08:53:46.955Z	e-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age, MATLAB Programming for Engineers and Scientists	1
Afshan khan	2021-10-05T08:53:49.730Z	Data Science for Business Innovation	1
G Kiranmai	2021-10-05T08:54:06.682Z	Programming for Everybody (Getting Started with Python), Modern JavaScript: ES6 Basics, Python for Everybody	2
K.Amulya	2021-10-05T08:53:32.835Z	Introduction to Machine Learning, Data Structures and Algorithms	1
V.SREE SOUMYA	2021-10-05T08:53:57.478Z	Foundations: Data, Data, Everywhere, Machine Learning Pipelines with Azure ML Studio, Google Data Analytics	2
Pranathi	2021-10-05T08:54:05.940Z	Real-Time Embedded Systems Concepts and Practices, Data Encryption using AWS KMS From UST, Exploratory Data Analysis with Seaborn, Create PDF Balance Report using HTML, Excel & Power Automate	4
Kalwa Pujitha	2021-10-05T08:53:37.845Z	Introduction to HTML5, Web Design for Everybody: Basics of Web Development & Coding	1
Sai Priya Kamuni	2022-08-22T17:45:38.763Z	Create Your First Python Program From UST	1
Lethakula Kshama Aditi	2021-10-05T08:53:30.525Z	AWS Cloud Technical Essentials, AWS Fundamentals	1
K.Shravani	2021-10-05T08:53:54.670Z	Algorithmic Toolbox	1
Meghana kakkireni	2021-10-05T08:54:05.733Z	Excel Skills for Business: Essentials, Excel Skills for Business	1

N.Kusuma	2022-11-21T14:15:44.477Z	Introduction to Microsoft Excel	1
N Kusuma Sai	2021-10-05T08:53:54.176Z	Java Basics: Selection and Iteration, Learn to Job Search with Indeed, Programming in Java: A Hands-on Introduction	2
Lakka Ramya Sri	2021-10-05T08:53:36.058Z	Neural Networks and Deep Learning, Deep Learning	1
L.Tejaswini	2021-10-05T08:54:07.221Z	Java Programming: Arrays, Lists, and Structured Data	1
P Sreesudha	2021-10-05T08:53:57.026Z	Deep Learning with PyTorch: Image Segmentation, Create Your First Web App with Python and Flask, Machine Learning Pipelines with Azure ML Studio, Mathematics for Computer Science	4
ADIRAJU LALITHA	2021-10-05T08:53:52.281Z	Neural Networks and Deep Learning, Applied Data Science with Python	1
D.Pavani	2021-10-05T08:53:55.067Z	Applied Machine Learning in Python	1
CH Leela Krishna	2021-10-05T08:53:31.429Z	Data Science Math Skills	1
K.Likhitha	2021-10-05T08:53:38.510Z	Data Science Math Skills, Linear Regression with NumPy and Python, Advanced Machine Learning	2
B.Madhuri	2021-10-05T08:53:38.279Z	Algorithmic Toolbox	1
Madhuri Latha	2021-10-05T08:53:37.882Z	Foundations of Project Management, Google Project Management:	1
Divya	2021-10-05T08:53:45.283Z	Software Processes and Agile Practices, Software Design and Architecture	1
Parankusam Sai Manasi	2021-10-05T08:53:40.952Z	Ideas from the History of Graphic Design	1
D.sri vennela	2021-10-05T08:53:54.962Z	Algorithmic Toolbox, Marketing Strategy	1
Mansavi Rao	2021-10-05T08:53:53.727Z	Algorithmic Toolbox	1
AKULA MANASWINI	2021-10-05T08:53:50.106Z	Java Programming: Solving Problems with Software	1
M.Akshitha	2022-03-28T16:29:58.152Z	Classical Sociological Theory	1
M.POOJA REDDY	2021-10-05T08:54:01.601Z	Google Ads for Beginners, Neural Networks and Deep Learning, Deep Learning	2
Manushna Bandari	2021-10-05T08:53:26.922Z	Introduction to Structured Query Language (SQL)	1
Mariya Fatima	2021-10-05T08:53:26.556Z	Introduction to Cybersecurity Tools & Cyber Attacks	1
Himaja Marla	2021-12-29T15:15:45.543Z	Introduction to HTML5	1
M.Sanjana	2021-10-05T08:53:58.552Z	Introduction to Cybersecurity Tools & Cyber Attacks	1
Volam meenakshi	2021-10-05T08:53:45.528Z	AI For Everyone, Database Operations in MariaDB Using Python From Infosys, Python for Everybody	2
G.Meghana	2021-10-05T08:53:52.334Z	Java Programming: Solving Problems with Software	1
MEGAVATH KEERTHI	2021-12-08T19:33:32.394Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Pogula Meghana Reddy	2021-10-05T08:53:34.900Z	Mathematics for Machine Learning: Linear Algebra, Digital Marketing Strategy and Planning, Mathematics for Machine Learning	1
Swathi Mengji	2023-05-23T17:29:30.303Z	Data Visualization using Plotly, Analyze Website Visitors with Google Analytics Segments, Introduction to Data Analysis using Microsoft Excel	3
M.Keerthana	2021-10-05T08:53:25.554Z	Web Application Technologies and Django, Data Science Fundamentals	1
Mohini Awadhiya	2021-10-05T08:53:49.665Z	Algorithmic Toolbox	1
Monalisa Chowdary	2021-10-05T08:53:51.135Z	Introduction to Business Analysis Using Spreadsheets: Basics, The Data Scientistâ€™s Toolbox, Overview of Data Visualization, Data Science: Foundations using R	3
B. Monica	2022-04-12T16:09:57.769Z	Create Your First Python Program From UST	1
Mounika Pamarti	2021-10-05T08:53:58.008Z	Using Python to Access Web Data	1
M.Gayathri	2021-10-05T08:53:55.003Z	Speak English Professionally: In Person, Online & On the Phone	1
N Haritha	2021-10-05T08:53:54.962Z	Foundations of User Experience (UX) Design, Google UX Design	1
RAYUDU SUSHMA	2021-10-05T08:53:53.106Z	Preparation for Job Interviews, Create a Profile and Network on LinkedIn, HTML, CSS, and JavaScript for Web Developers	4
Sk.Najish Jaha	2022-07-09T11:38:09.742Z	Create a Website Using Wordpress: Free Hosting & Sub-domain, Create Your First Web App with Python and Flask, build a Full Website using WordPress	3
B. Nalandeshwari	2021-10-05T08:53:59.492Z	Crash Course on Python, Access an EC2 instance shell from the AWS console	2
Nanda Devi	2021-10-05T08:53:29.828Z	C for Everyone: Programming Fundamentals, Coding for Everyone: C and C++	1
Sree Bhavani	2021-10-05T08:53:25.881Z	Java Programming: Solving Problems with Software, Object Oriented Programming in Java	1

D. Naveena Kumari	2021-10-05T08:54:03.807Z	English for Career Development, Create a Website Using Word press: Free Hosting & Sub-domain, Introduction to Microsoft Excel, Machine Learning Pipelines with Azure ML Studio, Preparation for Job Interviews, Google Ads for Beginners	8
NUNE CHANDRA KUMARI	2021-10-05T08:53:40.879Z	Crash Course on Python, Create Your UX portfolio with Cercado, Tweet Emotion Recognition with TensorFlow, AWS S3 Basics,Google IT Automation with Python	4
Nida Talveen	2021-10-05T08:53:52.803Z	Foundations of User Experience (UX) Design, Google UX Design	1
Siva Prasad Padilam	2021-10-05T08:53:52.610Z	Programming for Everybody (Getting Started with Python)	1
N.Ramakrishna	2021-10-05T08:53:51.052Z	Deep Learning with PyTorch : Image Segmentation ,Create a Resume and Cover Letter with Google Docs, AI For Everyone, Build a Data Science Web App with Streamlit and Python, Introduction to Microsoft Excel, Create a Budget with Google Sheets, Visualizing Filters of a CNN using TensorFlow, Machine Learning Pipelines with Azure ML Studio, Google IT Automation with Python	8
Parkhi Niharika	2021-10-05T08:53:43.686Z	Introduction to Big Data, Big Data, Full-Stack Web Development with React	1
V.Niharika	2021-10-05T08:53:40.102Z	Blockchain Basics, Introductory C Programming, Blockchain	1
Gaddam Nikhitha	2021-10-05T08:53:30.609Z		1
S.Nikhitha	2023-07-07T10:17:04.070Z	Introduction to Microsoft Excel	1
Nikitha Katta	2022-11-06T00:13:33.774Z	TypeScript Arrays	1
R. Nikitha	2021-10-05T08:53:32.464Z	TOEFL Reading and Listening Sections Skills Mastery	1
N.Nikitha	2021-10-05T08:53:31.493Z	Introduction to Python Programming, Introduction to Programming with Python and Java	1
P. Praisy Sharon	2021-10-05T08:53:50.768Z	Foundations: Data, Data, Everywhere, Google Data Analytics, Machine Learning	1
PULLAMOLLA NITHYA	2021-10-05T08:53:33.509Z	AI For Everyone, AWS S3 Basics	2
P Mamta	2021-12-16T07:37:55.833Z	Open-Source Software Development Methods, Open-Source Software Development, Linux and Git	1
R.Ruchitha	2021-10-05T08:53:50.344Z	Programming for Everybody (Getting Started with Python)	1
PAKA JAYAMADHURI	2021-10-05T08:53:32.213Z	Web Application Technologies and Django	1
P Alekhya	2021-10-05T08:53:39.019Z	Java for Android, Android App Development	1
Gorla Kaveri	2021-10-05T08:53:49.938Z	Use Canva to Create Desktop and Mobile-friendly Web Pages., Foundations: Data, Data, Everywhere, Google IT Automation with Python, Google Data Analytics	2
Siddam Pavani	2021-10-05T08:53:35.278Z	Google Cloud Fundamentals: Core Infrastructure	1
Pavitra	2021-10-05T08:53:50.618Z	Search Engine Optimization (SEO) with Squarespace ,Crash Course on Python, Azure Synapse SQL Pool - Implement Polybase ,Using Basic Formulas and Functions in Microsoft Excel, Data Visualization using Plotly, Introduction to Business Analysis Using Spreadsheets: Basics, Build a Data Science Web App with Streamlit and Python, Database Operations in MariaDB Using Python From Infosys, Create Your First Web App with Python and Flask, Introduction to Microsoft Excel, Regular Expressions in Python, Finding, Sorting, & Filtering Data in Microsoft Excel, Create a Financial Statement using Microsoft Excel, Introduction to Data Analysis using Microsoft Excel, Overview of Data Visualization, Google Data Analytics	15
P Sushmitha	2021-10-05T08:53:48.094Z	Introduction to Data Analytics for Business, Learn Spanish: Basic Spanish Vocabulary	1
L. Swetha Srilakshmi	2021-10-05T08:53:49.154Z	Neural Networks and Deep Learning, Deep Learning	1
Vennela	2021-10-05T08:53:49.012Z	Introduction to Augmented Reality and AR Core, Introductory C Programming	1
Pranavi Pulivarthi	2021-10-05T08:53:45.246Z	Salesforce Basics, Salesforce Fundamentals	1
K.Prasanna Durga	2021-10-05T08:53:46.520Z	Crash Course on Python, Introductory C Programming	1
Pratyusha Cheepu	2021-10-05T08:53:32.322Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
K.Prathyusha	2021-10-05T08:53:34.632Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1

Pravalika Manugu	2021-10-05T08:54:03.631Z	How To Visualize Your Data Using Microsoft PowerPoint, Create Charts and Dashboards Using Microsoft Excel, Excel Skills for Business: Essentials, Python for Everybody	3
Pravalika Poladi	2021-10-05T08:54:06.093Z	Blockchain Basics, Blockchain	1
Katkoori Preethi Reddy	2021-10-05T08:53:42.121Z	Build a mobile app with Google Sheets on Glide and no coding	1
peddapuram Priya	2021-10-05T08:53:25.777Z	Writing, Running, and Fixing Code in C	1
K Priyanka	2021-10-05T08:53:47.158Z	HTML, CSS, and JavaScript for Web Developers	1
P.Sri Varshika	2021-10-05T08:53:57.146Z	AI For Everyone, Build a mobile app with Google Sheets on Glide and no coding	2
Nalla Pujitha Bala	2021-10-05T08:53:46.316Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Pulikallu Jahnavi	2021-10-05T08:53:31.286Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
Puli.Shilpa	2021-10-05T08:53:42.255Z	Programming for Everybody (Getting Started with Python)	1
Puli Vidyavathi	2021-10-05T08:53:50.214Z	Practical Machine Learning, Introduction to Data Analysis using Microsoft Excel, Full-Stack Web Development with React	2
N. Radha kalyani	2021-10-05T08:54:08.230Z	Using Python to Interact with the Operating System	1
Katta Rajashri	2021-10-05T08:53:46.958Z	Developing An Entrepreneurial Mindset: First Step Towards Success, How to Start Your Own Business	1
Rajoli Krithika Reddy	2021-10-05T08:53:34.264Z	Object Oriented Programming in Java	1
PERURU ANANYA	2021-10-05T08:53:47.839Z	Create Your First Python Program From UST, Foundations of Project Management, Compose and Program Music in Python using Earsketch, Preparation for Job Interviews, Basic Image Classification with TensorFlow, Google Project Management:	5
Nakshatra.J	2021-10-05T08:53:53.796Z	Foundations: Data, Data, Everywhere, Generative Adversarial Networks (GANs), Google Data Analytics	1
M.Akhila	2021-10-05T08:53:47.677Z	AI For Everyone, Introduction to Basic Game Development using Scratch	2
Uttara.Nanduri	2021-10-05T08:53:47.594Z	Crash Course on Python, Preparation for Job Interviews, Google IT Automation with Python	2
R.Navya	2023-08-17T09:38:11.340Z	Learn to Job Search with Indeed	1
R.RAMYA	2021-10-05T08:53:47.551Z	Foundations of Project Management, Google Project Management:	1
Bandaru bhavana	2021-10-05T08:53:42.554Z	Mathematics for Machine Learning: Linear Algebra, Introduction to Business Analysis Using Spreadsheets: Basics, Tesla Stock Price Prediction using Facebook Prophet	3
Harsha Sree Reddy	2021-10-20T15:40:50.470Z	Programming for Everybody (Getting Started with Python)	1
Pallavi reddy	2021-10-05T08:54:02.207Z	Natural Language Processing with Classification and Vector Spaces	1
Pulledula Divya Rani	2021-10-05T08:53:41.488Z	Crash Course on Python, Google IT Automation with Python	1
Rishitha Chakirala	2021-10-05T08:53:47.740Z	Full-Stack Web Development with React	1
Gunti Rohitha	2021-10-05T08:53:57.876Z	Web Application Technologies and Django, Applied Data Science with Python	1
Rohitha Avvaru	2021-10-05T08:53:39.439Z	Crash Course on Python, Google IT Automation with Python, Excel Skills for Business	1
V Badri Rama Krishnan	2021-10-05T08:53:39.848Z	Neural Networks and Deep Learning	1
Anjali Reddy	2021-10-05T08:53:37.233Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
R. Rukmini Reddy	2021-10-05T08:53:39.940Z	Programming for Everybody (Getting Started with Python), Emerging Technologies: From Smartphones to IoT to Big Data	1
Raksha Naravi Pai	2021-10-05T08:53:36.716Z	Tweet Emotion Recognition with TensorFlow, AWS S3 Basics, Introduction to Data Analysis using Microsoft Excel, Work Smarter with Microsoft Excel	4
M.Sadvika	2022-07-09T13:51:43.800Z	Machine Learning Pipelines with Azure ML Studio	1
Lalana Palwaye	2021-10-05T08:53:52.059Z	VLSI CAD Part II: Layout	1
Jayavani	2021-10-05T08:53:26.381Z	Neural Networks and Deep Learning	1
Sai Preethi Polu	2021-10-05T08:54:03.586Z	Data Structures	1
P.Saisree	2022-01-17T11:01:16.383Z	Java Programming: Solving Problems with Software, Object Oriented Programming in Java	1

Saisri Mukka	2021-10-05T08:53:37.642Z	Database Management Essentials, Data Warehousing for Business Intelligence	1
T.Saisri	2021-10-05T08:53:30.037Z	Introduction to Java and Object-Oriented Programming, Google IT Automation with Python	1
G.Samanvitha	2021-10-05T08:54:06.898Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1
S. Tejaswi	2021-10-05T08:53:33.955Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
J sarasija sharma	2021-10-05T08:53:36.019Z	Technical Support Fundamentals, Custom Prediction Routine on Google AI Platform, Google IT Support	3
Geetha Krishna Guruju	2021-10-05T08:53:35.699Z	Deep Learning with PyTorch: Image Segmentation, AI For Everyone, Basic Image Classification with TensorFlow	3
Sowkhya Bovindala	2021-10-05T08:53:34.327Z		1
Sasirekha	2021-10-05T08:54:04.715Z	Fundamentals of Graphic Design	1
Satyasree Gabbita	2021-10-05T08:53:38.002Z	AWS Cloud Practitioner Essentials, Python for Everybody	1
S. Gorantala	2021-10-05T08:53:38.674Z	HTML, CSS, and JavaScript for Web Developers, Google Data Analytics	1
Shaista Firdouse	2021-10-05T08:53:47.258Z	Programming for Everybody (Getting Started with Python), Machine Learning Pipelines with Azure ML Studio, Python for Everybody	2
M.Shalini Reddy	2021-10-26T04:22:54.867Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
T Sharadi	2021-10-05T08:53:49.048Z	Crash Course on Python, Google IT Automation with Python	1
Fathima Sumreen	2021-10-05T08:53:33.596Z	Introduction to Business Analysis Using Spreadsheets: Basics, Business Analysis & Process Management, Introduction to Data Analytics for Business, Tesla Stock Price Prediction using Facebook Prophet, Google Data Analytics	5
G.Sharanya	2021-10-05T08:53:27.406Z	Using Python to Interact with the Operating System, Python for Everybody	1
Sharanya Manusani	2021-10-05T08:53:51.246Z	Data Analysis Using Python Java Programming and Software Engineering Fundamentals	1
M Durga Neha Chandana	2021-10-05T08:53:33.224Z	Create and Design Digital Products using Canva, Create a Website Using Wordpress : Free Hosting & Sub-domain, Business Analysis & Process Management, Foundations of Project Management, How to Optimize Your Instagram Account ,Machine Learning Pipelines with Azure ML Studio, Build a Full Website using WordPress, Introduction to Basic Game Development using Scratch, Build a mobile app with Google Sheets on Glide and no coding, Google IT Support, Google Project Management:	9
Sheela Sangeetha	2021-10-05T08:53:58.583Z	Python Data Structures	1
Shelcy	2021-10-29T15:58:56.812Z	Google Cloud Fundamentals: Core Infrastructure, Working with BigQuery, Preparing for Google Cloud Certification: Cloud Network Engineer	2
Bandela Shirlene Rose	2021-10-05T08:54:00.680Z	Internet of Things: How did we get here?	1
Kanakam Vyshnavi	2021-10-05T08:53:53.716Z	Crash Course on Python, Python for Everybody	1
Shivani Eslavath	2021-10-05T08:54:01.138Z	Fundamentals of Project Planning and Management	1
Kanchanapalli Shloka	2021-10-05T08:53:41.301Z	Google Cloud Fundamentals: Core Infrastructure, Networking in Google Cloud	1
Vennamaneni Shreshta	2021-10-05T08:53:30.385Z	Python Functions, Files, and Dictionaries	1
Saniya Fatima	2021-10-05T08:53:33.154Z	Ask Questions to Make Data-Driven Decisions	1
Shreya Valgot	2021-10-17T11:44:47.346Z	Algorithmic Toolbox	1
G.Shreya	2021-10-05T08:53:42.783Z		1
Nagulapelli Shreya	2021-10-05T08:53:46.999Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
S.Shreya Reddy	2021-10-05T08:53:32.892Z	AI For Everyone	1
Sindhuja Kondreddy	2021-10-05T08:53:28.447Z	Create a Profile and Network on LinkedIn	1
G.Sai Sindhuja	2021-11-21T15:48:44.500Z	Foundations: Data, Data, everywhere	1
S.lekhana Chowdary	2021-10-05T08:53:57.425Z	Exploratory Data Analysis with Seaborn, Machine Learning for All, Web Design for Everybody: Basics of Web Development & Coding	2
Sirisilla Prathyusha	2022-01-15T09:44:59.220Z	Introduction to Embedded Systems Software and Development Environments	1

SIRI MANDADI	2021-10-05T08:53:25.708Z	Crash Course on Python, Google IT Automation with Python	1
K. Sitamanasvi	2021-10-05T08:53:44.585Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
Roshini.N	2021-10-05T08:53:31.730Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
Smitha Mahindrakar	2021-10-05T08:53:39.681Z	Crash Course on Python, Introduction to Microsoft Excel, Google IT Automation with Python	2
Sonakshi Dwaraka	2022-01-15T10:15:28.546Z	Firm Level Economics: Markets and Allocations	1
Harshitha Boddu	2022-03-31T05:26:20.138Z	Introduction to Data Analysis using Microsoft Excel	1
Sony	2021-10-05T08:54:00.516Z	Python Basics: Selection and Iteration, Programming in Python: A Hands-on Introduction	1
Surineni Soumitha	2021-10-05T08:54:06.675Z	Blockchain Basics, Introductory C Programming, Blockchain	1
D.Sowjanya	2021-10-05T08:53:42.437Z	Capstone: Retrieving, Processing, and Visualizing Data with Python, Python for Everybody	1
Himani Gugulotu	2021-10-05T08:53:31.021Z	Firm Level Economics: Consumer and Producer Behaviour, Managerial Economics and Business Analysis	1
Seetha Sowmya	2022-02-21T15:18:35.648Z	English for Career Development	1
S. Spanddhana	2021-10-05T08:53:46.333Z	First Step Korean	1
T. Spoorthi Reddy	2021-10-05T08:53:46.229Z	Data Structures	1
Kothinti Shravani Lakshmi	2021-10-05T08:54:01.407Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
A.Sravani Reddy	2021-10-05T08:53:49.456Z	Algorithmic Toolbox, Data Structures and Algorithms	1
Sravya Patnaik	2023-03-01T09:02:52.217Z	Improve your productivity and performance with Canva	1
A.Sravya	2021-10-05T08:53:40.347Z	Business Analytics for Decision Making	1
B.Animisha	2021-10-05T08:53:30.749Z	An Introduction to Consumer Neuroscience & Neuromarketing	1
Returi Nehata Sreeya	2021-10-05T08:53:55.914Z	Mathematics for Machine Learning: Linear Algebra	1
Thigireddy Sri Bhavani	2021-10-05T08:54:02.704Z	HTML, CSS, and JavaScript for Web Developers	1
M. Sridevi	2021-10-05T08:53:35.450Z	Python Basics	1
D. S. Naga yasaswini	2021-10-05T08:53:35.587Z	Algorithmic Toolbox	1
P.Srinidhi	2021-10-05T08:54:01.196Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Srinidhi Yerabati	2022-05-11T16:39:53.860Z	Building a Text-Based Bank in Java, Get started with Jira, Preparation for Job Interviews	3
Challa Sri Nikitha	2021-10-05T08:53:31.879Z	Introduction to Machine Learning	1
N Srinivas Naidu	2021-10-05T08:53:30.585Z	Introduction to TCP/IP, Introduction to Bash Shell Scripting	2
Sri Pujitha	2021-10-05T08:54:02.317Z	Business Analysis & Process Management, Python Data Structures	2
KistaReddy Gari Sreelatha	2021-10-05T08:53:56.643Z	Python Data Analysis	1
Srishti Mathur	2021-10-05T08:53:44.560Z	Foundations of Project Management, Google Project Management:	1
Sri Vaishnavi Aekkati	2021-10-05T08:53:33.069Z	Introduction to Data Analytics for Business, Machine Learning	1
KADARI SAHITHYA	2021-10-05T08:53:29.732Z	Introduction to Data Analytics for Business, Machine Learning Pipelines with Azure ML Studio	2
Thiramdasu Sucharitha	2021-10-05T08:53:26.321Z	Introduction to Data Analytics for Business	1
S.Sai Sudeeksha	2021-10-05T08:53:37.413Z	Write Professional Emails in English, Introduction to Microsoft Excel, Improve Your English Communication Skills	2
Ch. Sudharshan Reddy	2022-03-21T08:14:42.111Z	Introduction to the Internet of Things and Embedded Systems, An Introduction to Programming the Internet of Things (IOT)	1
Allipuram Sujatha	2021-10-05T08:54:03.343Z	Bayesian Statistics: From Concept to Data Analysis	1
Kondam Abhinaya	2021-10-05T08:53:28.207Z	Machine Learning Pipelines with Azure ML Studio	1
Ratlawath Sumitra	2021-10-05T08:53:43.997Z	Advanced Writing	1
S.Priyanka	2021-10-05T08:54:07.575Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1
Sunnihitha .D	2021-10-05T08:53:46.942Z	Making Your First Virtual Reality Game, Introductory C Programming	2
Mulaka Supriya	2021-10-05T08:53:30.271Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1

R.Sharani	2021-10-05T08:53:27.588Z	How Google does Machine Learning, Machine Learning Pipelines with Azure ML Studio	3
Tatikonda.Sushmitha	2021-10-05T08:53:42.794Z	Linux Tools for Developers	1
N. Sushmitha	2021-10-05T08:53:28.257Z	Applied Machine Learning in Python, Python for Everybody	1
J.Swarupa	2021-10-05T08:53:39.401Z	English for Common Interactions in the Workplace: Basic Level	1
Aditi S S	2021-10-05T08:53:27.058Z	Introduction to Business Analysis Using Spreadsheets: Basics, Business Analysis & Process Management	3
Swetha	2021-10-05T08:54:00.161Z	Neural Networks and Deep Learning	1
Syeda Shifa Fatima	2021-10-05T08:53:53.835Z	Programming for Everybody (Getting Started with Python), Introduction to Microsoft Excel, Python for Everybody	2
PULI TEJASWINI REDDY	2021-10-05T08:54:00.566Z	Crash Course on Python, Google IT Automation with Python	1
DABBETI TEJASWI	2021-10-05T08:53:35.179Z	Data Structures	1
Tejaswi Goud	2023-01-06T20:10:39.274Z	Azure: create a REST API using NodeJS Serverless Functions, Machine Learning Pipelines with Azure ML Studio	2
Radhika	2021-10-05T08:53:26.880Z	Discounted Cash Flow Modelling	2
Gayathri Thadapu	2021-10-05T08:53:25.619Z	Technical Support Fundamentals, Google IT Support	1
THUMU LOHITHA	2021-10-05T08:53:35.166Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Thumpudi N V D Mounica	2021-10-05T08:53:25.558Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
T. S. Keerthika	2021-10-05T08:53:58.912Z	Foundations: Data, Data, Everywhere, Google Data Analytics, Introduction to Discrete Mathematics for Computer Science	1
Ch.Hari Priya Trinity	2021-10-05T08:54:04.286Z	Introduction to Psychology	1
Umme Aaiman	2021-10-05T08:54:04.297Z	Programming for Everybody (Getting Started with Python), Python for Everybody, Deep Learning	1
Pulluru Sai Shreya	2021-10-05T08:53:25.813Z	Python for Everybody	1
U.Yuktha	2021-10-05T08:54:02.579Z	Cryptography	1
V.S.Pavani	2022-04-03T07:29:33.451Z	Create Your First Web App with Python and Flask	1
K.Vadhoolasa	2021-10-05T08:53:25.778Z	Financial Markets	1
Vaishnavi Narayanam	2021-10-05T08:53:32.523Z	Cybersecurity for Everyone	1
Vaishnavi	2021-10-05T08:53:42.126Z	Java Programming: Arrays, Lists, and Structured Data	1
Vaishnavi Jinde	2021-10-05T08:54:05.760Z	Intelligence Tools for the Digital Age	1
Pisupati Sai Valli Shivani	2021-10-05T08:53:49.636Z	Foundations: Data, Data, Everywhere, Google Data Analytics	1
Lenkala Bhavani	2023-06-03T13:24:03.258Z	Create a Profile and Network on LinkedIn	1
V. Varsha	2023-08-12T13:28:10.600Z	Regular Expressions in Python	1
Varsha Singannagari	2021-10-05T08:53:28.264Z	Using Python to Access Web Data, Python for Everybody	1
G.varsha	2022-07-30T15:51:35.873Z	Compose and Program Music in Python using Ear sketch	1
Arava Vedabhishikta	2021-10-05T08:53:48.843Z	Introduction to the Internet of Things and Embedded Systems	1
Deekonda Eshwari	2021-10-05T08:53:25.444Z	Programming for Everybody (Getting Started with Python), Python for Everybody	1
Venkateswarulu	2021-10-05T08:53:43.231Z	Advanced Data Structures in Java, Photography Basics and Beyond: From Smartphone to DSLR	1
M.Vijayalakshmi	2021-10-05T08:53:59.114Z	Neural Networks and Deep Learning, Deep Learning	1
Vippalapalli Vikas	2021-10-05T08:53:50.324Z	Neural Networks and Deep Learning, Deep Learning	1
Vinayasree Doonuru	2021-10-05T08:53:36.825Z	Getting Started with SAS Programming	1
Vinnela	2021-10-05T08:53:29.193Z	Foundations: Data, Data, Everywhere, Big Data, Google Data Analytics	1
Vineela Goud	2021-10-05T08:53:30.924Z	AI For Everyone	1
Sharon Bitla	2021-10-05T08:53:25.429Z	Introduction to HTML5, Web Design for Everybody: Basics of Web Development & Coding	1
Nara Yamini	2021-10-05T08:53:48.255Z	Programming Foundations with JavaScript, HTML and CSS, Java Programming and Software Engineering Fundamentals	1
P. Yashika	2021-10-05T08:53:41.671Z	Foundations: Data Everywhere	1

B. The institution needs to specify the facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization (3)

Various facilities like Impartus online video lectures, value added courses, and webinars are initiated for the student's self-learning.

Impartus Lecture Capture — Better Learning Through Video

Impartus videos hold significant importance in educational settings, providing benefits such as lecture capture, flipped classroom resources, and virtual classroom capabilities. These videos enable students to review lectures for better understanding and revision. Professors also benefit from the platform, allowing them to evaluate their teaching techniques and enhance the learning experience for students. Fig. 9.4.1 shows a picture from impartus video for VLSI Design subject of ECE III year of sem 1

Fig. 9.4.1 VLSI Design of III year Impartus Video by Faculty

Value added courses

Value added courses are provided by the department to enhance the knowledge of students so that the weightage for their resume increases. This helps to get the job easily inside /outside the campus. List of value-added courses for each academic year are shown in Table 9.4.5.

Table 9.4.5 Value added courses from 2020 to 2023

Academic Year	Name of the course/programme	Mode of the Course- offered by the HEI or Online	Contact hours of course	Number of students enrolled in the year	Number of Students completing the course in the year
2020-2021	Developing applications in Wireless communications and Image Processing using Embedded systems	offline	36	190	190
2021-2022	Competitive Coding	offline	122	199	199
2022-2023	Real-time Applications using Python	offline	40	198	198
	AI Powered Embedded Systems and IOT	offline	30	198	198

Fig 9.4.2 shows the picture of both faculty and students for value added course AI Powered Embedded Systems and IOT.

Fig. 9.4.2 Group photo of faculty and students during value added course AI Powered Embedded Systems and IOT

YouTube Videos

Fig. 9.4.3 shows YouTube video for the subject Linear Control Systems by Prof Ch. Ganapathy Reddy useful for students of II year.

Fig 9.4.3. Youtube Video for the subject Linear Control System (LCS) by Prof Ch.Ganapathy Reddy

WEBINARS

Webinars are conducted in department for students and faculty to enhance the technical knowledge in courses and for better preparation of competitive exams. Table 9.4.6 shows the list of webinars conducted in department.

Table 9.4.6 List of webinars conducted

Academic Year	Date	Title	Resource Person	Number of Participants
2020-2021	16&17-06-2020	Machine Learning and Deep Learning using MATLAB, MATLAB Simulink for Hardware Integration	Mr A. Ramana, MathWorks, Hyderabad	130

	10-07-21	GATE way-An ultimate guideline to crack GATE	1.Ms S.Prathyusha 2.Ms P.Amulya Alumnae	22
2021-2022	26-09-2021	Digital Wellness	1.Rijul Arora, Digital Wellness Advocate Speaker 2.Mr R.Gupta , Full Stack web developer, 3.Mr R. Angelo, Digital Wellness Advocate	11

9.5 Career Guidance, Training, Placement (10) Total Marks 10.00

Institute Marks : 10.00

A. Availability of Career Guidance Facilities (2)

The Career Guidance Cell (CGC) at G. Narayanamma Institute of Technology and Science (GNITS) is a dedicated resource aimed at assisting students in navigating their career paths effectively. Through personalized sessions, the CGC helps students assess their interests, skills, and goals, thus providing invaluable clarity on potential career objectives. Moreover, it offers comprehensive guidance on various career options, industries, job roles, and the educational prerequisites for different career pathways.

At GNITS, the CGC facilitates numerous activities to enrich students understanding of diverse career avenues. Seminars, workshops, and guest lectures by industry professionals serve to illuminate different industry landscapes, providing students with crucial insights. Additionally, these sessions highlight competitive examinations pertinent to students fields of interest, offering detailed information on eligibility criteria, application procedures, and effective preparation strategies.

Encouraging student engagement, the CGC advocates participation in career fairs, providing opportunities for direct interaction with industry representatives. This exposure allows students to explore various industries and agencies, fostering informed decision-making regarding their future career endeavours.

Recognizing the significance of study materials and reference books, the CGC ensures their accessibility within the library and the CGC premises. This initiative empowers students to delve deeper into their chosen fields and augment their knowledge base.

Ultimately, the CGC at GNITS endeavours to equip students with the requisite knowledge and support to make informed career choices and excel in competitive examinations. By fostering a nurturing environment conducive to personal and professional growth, the CGC plays a pivotal role in shaping the future trajectories of GNITS students.

Functions and Responsibilities

- Event Organization: Plan and execute seminars, workshops, and guest lectures to expose students to diverse career opportunities.
- Information Dissemination: Keep students informed about competitive examinations, eligibility criteria, and application procedures.
- Promoting Career Fair Attendance: Encourage and guide students to participate in career fairs to explore industry opportunities.

Table 9.5.1 Committee Members

S. No.	Name of the Member	Position
1.	Dr. K.Ramesh Reddy, Principal	Chairman
2.	Dr. P.Sunitha Devi, Asst. Prof., CSE	Coordinator
3.	Mr.P.Sai Niranjan, Asst. Prof., EEE	Member
4.	Mr. P.Satyanarayana Goud, Asst. Prof., ECE	Member
5.	Mr. G.Naga Babu, Asst. Prof., CSE	Member
6.	Mrs. V. Usha, Asst. Prof., IT	Member
7.	Ms. K.Pranathi, Asst. Prof., ETE	Member

B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2)

Career Guidance Cell provides Counseling for Higher Studies for aspiring students.Table 9.5.2 shows the various awareness programs conducted.

List of CGC Activities is shown in Table 9.5.2.

Table 9.5.2 Academic Year Wise Activities of the Cell

2020-21 Academic year						
S No	Date	Topic	Name of the Resource Person	Designation	Organization	No of participants
1	10 – 08 – 2020	Awareness program on program on GATE Examination	Mr. Kranthi Kumar	Course Director, GATE	TIME, Hyderabad	94
2	11 – 08 – 2020	Awareness program on program on GRE Examination	Mr. Siva Sankar	Sr Manager Business Development, Telangana	Manya Princeton Review Hyderabad	62
2021-22 Academic year						
1	23 – 09 – 2021 & 24-09-2021	All About Study Abroad & GRE, IELTS Preparation	Mr. Wajendra. T,	Head - Academics	Gradeway Prep, Hyderabad	919
2	26 – 11 – 2021	Global Study and Career Opportunities	Mrs. Reshmy Vijay	Director , Education Matters	Global Education & Careers Forum, Hyd	631
3	10 – 12 – 2021	Career Guidance and Overseas Opportunities	Ms. Usmath Fyaz	Manager, UK	Global Tree, Hyderabad	874
4	15 – 12 – 2021	Career Awareness Program for Electrical Engineers	Mr. K.Madan Mohan Goud	Founder & CEO	HIEE, Hyderabad	137
5	19 – 03 - 2022	How to apply for Higher education in the UK and what programs are best to get jobs in the UK	Mr. Padhyaya. Ganesh	Branch Head Hyderabad	SI-UK, Hyderabad	102
6	23 – 03 – 2022	Careers in Higher Education	Dr.Krishna Sudheer Annavajjala,	Professor, HOD, MBA,	KL University, Hyderabad	196
7	12 – 04 – 2022 & 21-04-2022	Crack IAS	Mr. Rohith Komma	Course Director	IAS Academy, Hyderabad	186
8	03 – 06 – 2022	Career Guidance Program on Civil Services	Sri Narasimha Reddy,	Dy. Director	Forest College and Research Institute(FCRI), Hyderabad	73
2022-23 Academic year						
1	22 – 09 – 2022	Powering your Global Education Dream	Ms. Shilpa Bansal	Head - Academics	Gradeway Prep, Hyderabad	742
2	03 – 03 – 2023	Global Study and Job Opportunities	Mr. Samiran Roy	Manager – Institutional Counselling Services	Global Education & Careers Forum, Hyderabad	755
3	16 – 03 – 2023	Banking Technology and a Headstart	Dr. M V N K Prasad, Dr. S Rashmi Dev	Associate Professor, AGM HR	IDRBT, Hyderabad	748
4	11-05-2023	Career Guidance and Higher Studies	Mr. S. Manimohan Trinath	GATE/ESE Trainer	ACE Engg. Academy, Hydeabad	762

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(For Women)
CAREER GUIDANCE CELL

SUMMARY REPORT

Fig. 9.5.1 Sample copy of Higher Studies Awareness program

Fig. 9.5.1 shows the sample copy Higher Studies Awareness program conducted at Institution level.

C. Pre-Placement Training (3)

The Training & Placement Cell plays an integral role in creating the illustrious placement record of GNITS. It ensures smooth functioning of the placement activities in the campus. The center further facilitates training activities of the students and makes sure they get placed in the best companies.

The Training & Placement Cell at GNITS provides personal and career-oriented support to its students. The main motive is to enable the students to effectively cope-up with academics at college and for successful careers after graduation. Apart from the training provided during the regular course curriculum, the college also provides an extensive training program of about 100 hours during the II & III Years of B Tech program to prepare the students for the recruitment process in their final year. GNITS engages specialized trainers for conducting this training. College places special emphasis on experiential learning in its training process. In this regard, the College has adopted pedagogical practices in collaboration with industry, businesses, and counterpart institutions to provide enhanced learning opportunities to the students. The effectiveness of the training is evident from the consistent and remarkable placement record.

Last year, the highest offer made was more than 40 lakhs per annum including Amazon, Twilio etc. Over the recent years, many reputed companies such as Microsoft, JPMC, Dell, Deloitte, ServiceNow, Salesforce, Bank of America, Invesco, NCR, Commvault, E&Y, Qualcomm, Persistent Systems, L&T Technology Services, Bosch, Ford, Accenture, Infosys, TCS and many other MNCs have participated in campus hiring from GNITS.

GNITS achieves the highest number of dream offers, with attractive salaries, in the TS & AP region.

Objectives:

1. Facilitate career opportunities for students by bridging the gap between academia and industry.

2. Employ a student-centric approach to fulfil corporate expectations within the college.

3. Diligently expand the Institute's corporate network throughout the academic year.

4. Enhance placement opportunities for students through proactive networking efforts.

5. Implement an all-inclusive placement training program starting from the first semester.

6. Integrate placement training seamlessly with mainstream studies.

7. Focus on developing industry-ready skills and competencies among students.

Industry Interaction & Placement Committee

The Industry Interaction & Placement Committee is a statutory body and reports to the Academic Council through the Dean Concerned. Each Academic Department shall have a faculty Co-ordinator as representative. Every student comes to GNITS with a dream to make a mark in the corporate world. The Placement Committee plays an instrumental role in assisting individuals to realize their dream of a promising career. It serves as a facilitator for all recruitment initiatives on campus, as well as the establishment and maintenance of the institute's relationships with corporates. The committee is responsible for organizing several campus corporate engagements such as Guest Lectures, Live Projects, Workshops, Case Competitions, and Pre-Placement Talks, to mention a few. Over the years the Placement Committee has successfully conducted the Summer and Final Placements and intends to further uphold the legacy of GNITS.

Functions of Industry Interaction & Placement Committee:

- Organizing Pre-Placement Seminars by Companies
- Getting the Pre-Placement Job Announcement Form (declaration) filled in by the representatives of each visiting company
- Maintaining Database of Companies and establishing strategic links for campus recruitment
- Gathering information about Job fairs and all relevant recruitment advertisements
- Coordinating with companies to learn about their recruitment procedures
- Identifying the needs and expectations of the companies to assist them in recruiting the most suitable candidates
- Organizing pre-placement training for students (Soft Skills, Dress Codes, Mock Interviews)
- Collecting feedback from employers where our students are placed
- Take feedback from industry and provide inputs for our curriculum and co-curricular activities.

Composition

I. Principal (Chairperson).
II. Dean-Placements.
III. Training & Placement Officer (Coordinator)
IV. One faculty member from each Department.
V. Two students from each branch (one from III year and one from IV year BTech.)

Meeting frequency:

The principal of the college shall draw the schedule for meeting of the Board of Studies for different departments. The meeting may be scheduled as and when necessary.

Roles & Responsibilities of Committee Members:

- To help the Placement Cell to maintain contacts with Alumni.
- To help the Placement Cell to organize the various processes like written test, group discussion, technical interviews, HR interviews when companies come to the campus for placement drive.
- To organize activities aimed at improving Institute – Industry – Interaction.
- To coordinate the soft skills training programmes of the respective departments.
- To intimate students well in advance about the forth coming drives and selection process.
- To guide the students for necessary preparation for the drives.
- To provide information about various careers available in this competitive world.
- To organize career development seminars and workshops.
- To invite companies to interact with students.
- To organize awareness programmes on significant areas.
- To organize guest lectures on career development by expertise of the field.
- To train the students in soft skills and personality development which are essential for employment and successful career.

Table 9.5.3 Academic Year Wise Activities of the Placement Training Cell

S.No.	Name of the Program / Event	Resource Person	Date	Duration	Number of Participants
2020-21 Academic year					
1	Campus Recruitment Training – Quantitative Aptitude, Logical Reasoning, Verbal, C&DS and JAVA	Mr. Mohamed Abudullah, Mr.Shasank,Mrs.Deepthi, Conduira online Education & Training Services, Hyderabad	10-11-2020	120 Hours	500
2	Advanced Algorithms and Data Structures training Program	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	22-09-2020	100 Hours	234
3	Women Empowerment Program, ICT Academy-DXCT Technology – Soft Skills	Suchithra P.R, Robotics Engineer at TechieMan Technologies	01-04-2021 to 23-12-2021	40 Hours	110
2021-22 Academic year					
1	Campus Recruitment Training – Quantitative Aptitude, Logical Reasoning, Verbal, C&DS and JAVA (for 3rd year students)	Mr. Mohamed Abdullah, Mr. Shasank, Mrs. Deepthi, Conduira online Education & Training Services, Hyderabad	10-09-2021	120 Hours	660
2	Advanced Algorithms and Data Structures training Program (for 3rd year students)	Mr. Aneeq Dholakia and Mr. Devang Sharma, Edyst Training Services, Hyderabad	16-09-2021	100 Hours	225
3	JAVA and Data Structures (for 2nd Year CSE, CSM, CSD, CST & IT)	Ms. Swathi, Coding Ninjas, Unitech Cyber Park, Unit 007 – 008, GF, Tower A, Sector 39, Gurugram, Haryana 122003	11/25/2021	100 Hours	527
4	Basics of C, C++ and Java (for 2nd Year ECE)	Ms. Mubeena, Cantilever Labs, T-HUB Catalyst Building, IIIT Hyderabad	12-05-2021	120 Hours	198
5	C and Data Structures (for 2nd Year EEE & ETE)	Ms.Ashritha, Bytexl India Pvt Ltd., Plot 98B/146, Sonthalia Pearl Building, Madhapur, Hyderabad	11/25/2021	100 Hours	179
2022-23 Academic year					
1	Advanced Algorithms and Data Structures training Program (for 3rd Year CSE, CSM, CSD, CST, IT & ECE Students)	Mr. Aneeq Dholakia and Mr. Devang Sharma, Edyst Training Services, Hyderabad	05-10-2022	100 Hours	220
2	Placement Preparation Program (for 3rd Year CSE, CSM, CSD, CST, IT & ECE)	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	10-10-2022	100 Hours	470
3	Java, SQL and Aptitude (for 3rd Year EEE & ETE)	Ms.Aashritha, Technical Trainer, Byte XL India Pvt Ltd	09-11-2022	120 Hours	179
4	Java Introduction and Advanced (for 2nd year CSE, CSM, CSD, CST & IT students)	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	09-12-2022	100 Hours	570
5	C & DS. Algorithms. Introduction to Web Technologies	Mr.Jalandhar, Technical Trainer, COIGN Consultants Ltd	05-12-2022	120 Hours	413

D. Placement Process and Support (3)

Training & Placement Cell

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- To guide the students for necessary preparation for the drives.
- To provide information about various careers available in this competitive world.
- To organize career development seminars and workshops.
- To invite companies to interact with students.
- To organize awareness programmes on significant areas.
- To organize guest lectures on career development by expertise of the field.
- To train the students in soft skills and personality development which are essential for employment and successful career.

Placements Surge in GNITS Over Last Three Years

G. Narayanamma Institute of Technology and Science (GNITS) has witnessed a remarkable upsurge in placements over the past three years, reflecting its commitment to fostering career opportunities for its students.

Rising Placement Figures

From the year 2020, the institution has seen a consistent increase in the number of students securing placements in esteemed companies. The placement data reveals a steady rise in the percentage of students placed, indicating the growing demand for our graduates in the job market. Fig. 9.5.2 shows the placement statistics for the past three years.

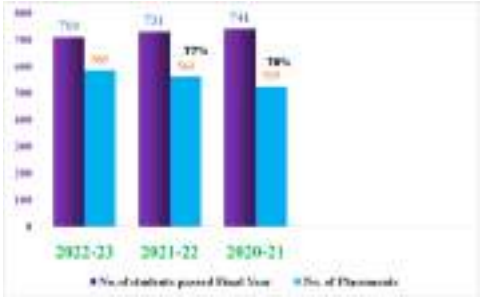

Fig. 9.5.2 Placement Statistics

In tandem with the rise in placement numbers, there has been a substantial increase in the median salary offered to our department students. Employers recognize the value of GNITS graduates and are willing to offer competitive compensation packages, reflecting the calibre and skills nurtured within the institution. Fig. 9.5.3 shows average salary packages offered for GNITS students. Fig. 9.5.4 shows the Highest package offered for GNITS students for the past three years.

Fig. 9.5.3 Average Salary offered

Fig. 9.5.4 Highest package offered

Expanding Corporate Engagement

Furthermore, the number of companies visiting the campus for recruitment drives has shown a notable upward trend. With each passing year, the insitution has attracted an increasing number of reputed organizations seeking to hire talented individuals from various disciplines. Fig. 9.5.5 shows the number of companies visited and recruited the GNITS students for the past three years.

Fig. 9.5.5 No. of Companies visited

Commitment to Excellence

These positive trends in placements underscore GNITSs commitment to providing quality education and holistic development opportunities to its students. The institutes focus on industry-relevant training, experiential learning, and career guidance has positioned its graduates as sought-after professionals in the competitive job market.

As GNITS continues to strengthen its academic programs, industry collaborations, and career support services, it is poised to further enhance its placement outcomes in the coming years. The institution remains dedicated to empowering students with the skills, knowledge, and confidence needed to excel in their chosen fields and make meaningful contributions to society.

9.6 Entrepreneurship Cell Total Marks 5.00

Institute Marks : 5.00

A.Entrepreneurship initiatives (3)
B.Data on students benefitted (2)

In a rapidly evolving global economy, Entrepreneurship Development Cells play a pivotal role in nurturing entrepreneurial talent, fostering innovation, and contributing to economic growth.

A.Entrepreneurship initiatives (3)

Understanding the significance of entrepreneurial talent GNITS has established Innovation cell, Entrepreneurship Development Cell (EDC) that are actively functioning in GNITS since 2007. In 2020 Innovation and Incubation centre is established merging I Cell, EDC and IPR cell to with complete ecosystem for mentoring students towards entrepreneurship as career path.

Innovation Cell

The main aim of I Cell is, to create intuition in terms of creative design ideas in various fields of engineering in an aesthetic approach that helps societal wellbeing.

I cell helps to nurture the students' ideas and support them build prototypes and result in market viable product.

Design Thinking course is included in the curriculum to enable students to understand the problem solving in a structured approach.

The collaboration with other partners in the ecosystem enabled the I Cell to organise various events that enabled the students innovators to pitch the ideas in national and international platforms like SIH, Eco championship Hackathon TS pollution control board, Space Apps Challenge, Google Solution Challenge Hackathon etc.,.

Majority of students innovations were awarded with cash prizes worth of 2,00,000 by Industry, Student chapters and Government bodies.

Intellectual properties Rights

A good ecosystem exists to protect IPR of faculty and students through the financial support from the college.

A course on Intellectual Property Rights in the curriculum as an Open Elective facilitating the students with the awareness towards protecting the intellectual property.

The number of patents published gradually increased year after year through continuous sessions organized with experts from IP attorney and over a period of four years nearly **42 patents are Published with 8 patents Granted**.

An MOU is signed between GNITS and LCGC Resolute Appliance LLP for patent professional services which will enable more number of patents to be published in the coming years.

Entrepreneurship Development Cell

An Entrepreneurship Development Cell (EDC) has been functioning in GNITS in association with JNTU, Hyderabad for the past 8 years.

The ED Cell in association with different organizations/government and non-government agencies, conducts orientation programs, workshops, panel discussions by inviting entrepreneurs from various fields to encourage and nurture students and promote entrepreneurship culture.

A technology incubation centre has been set up to provide infrastructure and support for budding entrepreneurs.

A course on Entrepreneurship is introduced in the curriculum and industrial visits to ALEAP a non-profit Organisation which gets Women Entrepreneurs on a common platform.

A total of 2075 students participated in 20+ events under ED Cell that helped the students to work, evaluate, build a prototype, pitch their idea, and get funding from government and private companies.

These efforts resulted in 20+ startups by our alumni and 2 student startups were registered till date.

To support the Innovation and Entrepreneurship activities the college has approved and allocated exclusive resources to foster startups ecosystem.

A dedicated space of 10,000 Sq. ft is allocated for setting up AIC-GNITS Foundation, a section 8 company with 10 crore grant in aid under ATAL Innovation Mission (AIM) – NITIAYOG scheme DST to support women led startups in Deeptech, ICT and sustainability.

Objectives of EDC

- To act as an institutional mechanism for providing various services including information to budding student entrepreneurs
- To create Entrepreneurial culture in the Parent Institution and other institutions in the region and to promote the objectives of NSTEDB, including programmes related to women and weaker sections of the society.
- To foster better linkages between the Parent Institution, Industries and R&D institutions in the region and other related organizations engaged in promoting Small & Medium Enterprises (SMEs) including NGOs and other Voluntary Organizations
- To catalyze and promote Development of S&T based Enterprises and promote employment opportunities.
- To respond effectively to the emerging challenges and opportunities both at national and international level relating to SMEs and Micro Enterprises.

Activities of EDC Cell

- Organizing workshops, seminars and events to create awareness about entrepreneurship.
- Encouraging students and promoting innovative ideas and solutions.
- Inviting successful entrepreneurs to share their experiences, insights and success stories
- Conducting skill development training programs to enhance their entrepreneurship skills such as ideation, business planning, market research and financial management.
- Providing guidance and incubation support to potential entrepreneurs in developing and refining their business ideas.
- Offering physical or virtual incubation spaces for startups to work on their projects.
- Facilitating industry interactions and networking events to connect aspiring entrepreneurs with mentors, investors, and other professionals.
- Organizing competitions to encourage students and budding entrepreneurs to create and present viable business plans.
- Connecting startups with potential investors, venture capitalists, and government funding programs to support their financial needs and growth
- Encouraging research and development activities related to entrepreneurship and innovation.
- Fostering partnerships with industry, government, and other institutions to cultivate an environment that promotes and supports entrepreneurship.
- Organizing Mentorship programs with experienced and knowledgeable individual (mentor) provide guidance, support, and advice to aspirants (mentee)

Consolidated Data of Entrepreneurship Development Cell for the last three years shown in Table 9.6.1.

Table 9.6.1 Consolidated Data of Entrepreneurship Development Cell for the last three years

S.No.	Assessment Year	No. of Entrepreneurship Activities Conducted
1	2020-21	4
2	2021-22	7
3	2022-23	12

List of Activities for the last three years from the year 2020 to 2023 shown in Table 9.6.2.

Table 9.6.2 List of Activities for the last three years from the year 2020 to 2023

S. No.	Date	Topic	Details of the Resource Person	No. of participants
1	30th Aug., 2020	Online Group Discussion on Entrepreneurship	EDC Coordinators, GNITS	182
2	18th Sept., 2020	How to Take Off Your Startup	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	79
3	7th - 8th May, 2021	Digital Marketing	1.Prof. Debajyoti Banerjee, Founder & CEO, Seven Boats Academy 2.Prof. Biplab Das, Seven Boats Academy 3.Prof.Vijay Mishra, Seven Boats Academy 4.Prof.Dip Maitra, Seven Boats Academy	97
4	10th May, 2021	Start-up Incubator Session	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	123
5	29th Oct., 2021	Student Startups	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	265
6	30th Oct., 2021	Manthan Hackathon	Organized by the Bureau of Police Research and Development in association with MIC-AICTE	30
7	12th Nov., 2021	"Sambhav" – e-National Level Awareness Programme (e-NLAP)	Sri K.C. Chowdary, Sri G. S. Bist and Smt. N. Sumathi, DI-MSME, Hyderabad	148
8	29th Dec., 2021	Idea pitching competition and Student Entrepreneur Talk	Mr. Kartheek Thatikonda, Head-Marainxt Innovation Center, Hyderabad	103
9	16th March, 2022	SIH-2022 Internal Hackathon	Dr. A. Sharada, Professor, GNITS Dr. Raj Kumary L. B. Dr. G. Malini Devi	100
10	26th March, 2022	MSME Idea Hackathon 2022	Dr. P. V. D. Somasekhar Rao, Prof. in ECE and Dean, Academics Mr. Katheek Thatikonda, Head, MiraiNxt Innovworks Pvt. Ltd. Mr. Farhim Aslam Khan, CA	55
11	16th Jun., 2022	Startups, Creativity and Innovation-Make Your Idea to Happen	1. Prof. G.S. Prasad, Director of Centre for Research, Innovation, Technology and Entrepreneurship (RITE), University of Hyderabad. 2. Prof. VVSS Srikanth, Professor, School of Engineering Sciences and Technology, University of Hyderabad. 3. Prof. Salman Abdul Moiz, Professor, School of Computer and Information Sciences, University of Hyderabad. 4. Dr. Sudha Reddy, Founder and Managing Director of KN Bioscience.	313
12	1st Aug., 2022	Industrial Management as Open Elective	Mrs. Smitha Mahindrakar, Asst. Prof., Dept. of H&M, GNITS Dr.P. Rekha, Assoc. Prof., Dept. H&M, GNITS Mrs. T. Malathi Latha, Asst. Prof., Dept. of H&M, GNITS	180
13	1st August, 2022	Design Thinking	Mrs. P. M. S. Hallika, Asst. Prof., Mech. Dept., GNITS Ms.N.Hiranmai, Asst. Prof., Mech. Dept., GNITS	120
14	10th Oct., 2022	Research Methodology & IPR	Dr. V. Vijaya Lakshmi, Asst. Prof., H&M dept., GNITS	35
15	21st – 22nd Nov., 2022	FORZA	1.Sri Charan Lakkaraju CEO Stugmagz Forbes 30 Under 30 Asia 2018 2. Sri P.S.N. Murthy Founder & President for Promotions of Public Libraries	200
16	6th Dec., 2022	Design Thinking, Critical Thinking and Innovation Workshop	Mrs. Sakuntala Kasaragadaa, Incubation Head, GNITS	90
17	2nd January, 2023	Entrepreneurship and Project Management	Mrs. J. Mamatha, Asst. Prof., H&M Dept., GNITS Ms. E. Pranavi, Asst. Prof., H&M Dept., GNITS Dr.P.Rekha, Assoc. Prof., H&M Dept., GNITS Dr. Areman Ramya Sri, Asst. Prof., H&M Dept., GNITS	240
18	25th Jan., 2023	Toycathon	Dr. S. Ramcharan, HOD, IT Dr.G.Malini Devi, Assoc. Prof., CSE	22

19	8th – 9th Mar., 2023	Women in Business (Women Leadership Conclave)	1. Aruna Dara, Managing Director, Apna Green Products 2. Mallika Valluru - Co-Founder & MD, Radius EduTech 3. Nanditha Sethi - Founder & MD- The Entrepreneur Zone, Startup Mentor, Tedx speaker. 4. 4. Vanitha Datla, Vice Chairperson & Managing Director, Elico Ltd. 5. Anuradha Kanchi - Principal strategist, Avtar The Power of Diversity 6. Panneerselvam Madanagopal - CEO, Technogen, India 7. Sahithi Divi – CEO, Soul of Swadesh 7. Praveen Dorna – Co founder, SocioHub 8. Kavitha Natarajan - Senior CSR Professional, CGI 9.Vyshali Sagar - Startup Ramp India lead, Amazon Web services 10. Sahitya Anumolu - Co-founder, Inquilab Foundation	150
20	7th Apr., 2023	Kavach Internal Hackathon	Dr. S. Ramcharan, HOD, IT Dr. G. Malini Devi, Assoc. Prof., CSE	48 (6 Teams)
21	17th Apr., 2023	YUVA – Young Innovation Challenge "Unpacking the Challenge: Techniques for Defining the Problem Statement and Finding the Right Fit - Product Market Alignment".	1. Keerthi Priya, Founder and CEO of Koh! Foods 2. Kausthub Kaundinya Y, Founder and CEO of Jarsh Safety 3. Ms. Sakuntala Kasaragadda, Head of Incubation Center, GNITS	83 (20 teams)
22	21st June, 2023	Orientation session on Successful Entrepreneurs	Ms. Pavani Lolla, Founder of Futurestep Enterprises Ms. Aruna Dara, Founder of Apna Green Products Ms. Lakshmi Haritha Bhavani, Founder of Ancient Foods	900
23	24th June, 2023	Design Thinking Workshop	Mr. Vaibhav, Senior UX Designer at ADP	300

STUDENT ACHIEVEMENTS

1. Ms. Indrani and Ms. Tulasi of 2019−2023 admitted batch have got selected for final round of YUKTI National Innovation Contest 2023 and will be granted Rs. 10 Lakhs.

2. Ms. Deeksha, Ms. Koushika and Ms. Shreya of 2020-24 admitted batch got selected for final round of YUKTI National Innovation Contest 2023 and will be granted Rs.10 Lakhs.

3. T. Bhavani Goud and Sanjana Reddy of 2020-24 admitted batch have got a grant of Rs.4 Lakhs for implementing their Idea under MSME Women Ideathon 3.0

4. V. Ruthwika secured first place in Galactihack Ideathon conducted by IIT Indore in Fluxus event in collaboration with ISRO, Nimbus Education on 8th March, 2024.

5. B. Vasavi, Y. Krupany and M. Pragya Teja won Runner Up in Sustainable Domain in Design-A-Thon competition at VNR VJIET from 3rd – 4th March, 2024.

6. T.V.L Prasanna and I.Satvika with project title "Cognizen Mat" won 5th prize in Anveshana 2024.

7.D. Bhavana and her team stood in top 5 out of 25 teams in Shark Tank Event organized by VR Siddhartha Engineering College, Vijayawada on 28th February, 2024.

8.K. Joanna Elizabeth, G. Angel, B. Sravanthi, J. Manisha Reddy and B. Rithika Reddy of EEE won first prize in Science Exhibition Competition on the eve of National Science Day 2024 conducted at Rashtrapati Nilayam, Hyderabad from 26th – 28th February, 2024.

9. Ms. Tejaswini, Ms. Ishitha, Ms. Tejaswini Singh, Ms. B. Srija, Ms. P. Kethana Reddy, Ms. J. Shravya and Ms. Ashritha won 2nd Prize with a cash prize of Rs. 20,000/- in Codequest which is an Inter collegiate 24-hour hackathon organized by CII-IWN on 16th – 17th February, 2024.

10. Terramik Team (Ms. Suma, Ms. Deeksha and Ms. Vaishnavi) won 3rd Prize in Biotech Innovation Challenge held on 7th January, 2024 at IIT Madras, Tamil Nadu

11. Ms. Anushka, Ms. Shreya Reddy and Ms. Srinija are the Winners of Crypto Wallet at the Bootcamp held at Mahindra University in December, 2023

12. Ms. Samiksha, Ms. Mahalakshmi and Ms. Ananya secured 3rd prize with cash prize of Rs.10,000/- at Nationwide 48 Hour Hackathon at Gokaraju Rangaraju Institute of Engg. & Technology (GRIET), Hyderabad from 6th – 8th October, 2023.

13. Tejaswini and her team are the National Level Winners in the NASA Space App Challenge 2023 from 7th – 8th October, 2023 at Chandigarh University

14. Shraddha and her team are the National Level Winners in the NASA Space App Challenge 2023 from 7th – 8th October, 2023at Chandigarh University

15. N Vyjayanthi and her team are the National Level Winners in the NASA Space App Challenge 2023 from 7th – 8th October, 2023at Chandigarh University

16. Ms. Sneha sri, Ramaswamy swathi, Reddy Swathi and Meghana won first prize with a cash prize of 15,000/- at Code Infinity, 24-Hour Hackathon on “Smart Security Companion for Women” held at MRCET from 17th – 18th March, 2023 under the mentorship of Mrs. P. Roopa Ranjani.

17. Ms. Faiza Hameed, V. Hema Chandrika, M. Samiksha, D. Mahalaxmi, Ms. Ananya Sangani and N. Shivani won second prize with a cash prize of Rs. 3000/- in IIIT Wiki Hackathon from 3rd – 4th March, 2023.

18. Ms. A. Shivani, Reddy, Theme: Technology for Social Good are the Winners at Hackwithinfy 2022 at Infosys, Pune from 27th – 29th August, 2022.

19. Ms. Keerthana Pravalika and her team: TechHustlers won 1st Prize in Smart India Hackathon-2022 at Kochi with a cash prize of Rs.1 Lakh from 25th – 26th August, 2022.

20. Ms. Siri Naidu, A. Varshini, U. Amogha and K. Satwika won winner title in the NASA International Space Apps Challenge 2022, Boot camp on 13th June, 2022 followed by 24 hours Hackathon on 18th June, 2022 conducted by Space Apps India.

21. Ms. B Saraswathi, Ms. G. Sharanya, Ms. R. Rupasri, Ms. Kirthi Kalikar and Ms. Gunti Rohitha won winner title in the NASA International Space Apps Challenge 2022, Boot camp on 13th June, 2022 followed by 24 hours Hackathon on 18th June, 2022 conducted by Space Apps India.

22. Ms. B. Shravani, Siri Naidu, A. Varshini, U. Amogha and K. Satwika won winner title in the NASA International Space Apps Challenge 2022, Boot camp on 13th June, 2022 followed by 24 hours Hackathon on 18th June, 2022 conducted by Space Apps India.

B. Data on students benefitted (2)

List of Entrepreneurs from GNITS shown in Table 9.6.3

Table 9.6.3 List of Entrepreneurs from GNITS

S.No.	Name of the Alumni Entrepreneur	Designation	Company Name
1	Ms. Santhosa Bojja	Founder and Director	Elegant Aesthetic and Academy, Hyderabad
2	Ms. M. Sravya	CEO	Private Business, Hyderabad
3	Ms.Rashmi Busireddy	Co-founder	Campus Crop
4	Ms. Challa Renuka Venkata Ramani	Founder	Improve 10X Solutions Private Limited
5	Ms. Anusha Reddy	Director	Maya Bazar Studio, Kadapa
6	Ms. D Prathima	Managing Director	Sri Kanuka Durga Filling Station (HPCL Dealer), Sanga Reddy
7	Ms. Shruti Ahuja	Director and Business Head	Ahuja Engg. Services Pvt Ltd, Hyderabad
8	Ms. Kshamitha	Director	Jamuna Hatcheries, Hyderabad
9	Ms. Sushma Mamindlapalli	Founder	ProXel Learning & Development Hub
10	Ms. Lakshmi Manasa Pandiri	Co-founder & CTO	Cartly Inc.
11	Ms.Himasree	Founder	Kitolit Private Limited
12	Ms. Shweta Agarwal	Founder	ShootOrder (https://www.linkedin.com/jobs/view/3680857896/)® - Digital Marketing Agency (https://www.linkedin.com/jobs/view/3680857896/)
13	Ms. Harshi Reddy Thodima	Founder	ROROSAUR Foodtech Private Limited
14	Ms. Sarojini Ummareddy	Co-founders & Director	Reflexion AI
15	Ms. Keerthi Datla	Co-founder & Marketing Communications Lead	Esvee Atelier
16	Ms.Rashmi Beldi	Founder	Studio RB | Product Photography | IG Filter | India
17	Ms.Rishitha Kondapalli	Co-founder & COO	Yulick Chocolates
18	Ms.Akshita Reddy Madireddy	Founder	Founder Insync; Managing Partner – Aaradhya Ventures
19	Ms. Rudraksha	Co-Founder and Chief Business Officer	Brekrr India & at Anuvega Powertronics
20	Ch. Prathusha(2023)	Founder	Dyonya

List of Entrepreneurs from ECE Department shown in Table 9.6.4

Table 9.6.4 List of Entrepreneurs from ECE Department

S.No.	Name of the Alumni Entrepreneur	Address	Name of Organization with Address and Website
1	Mallika Reddy M	NH 44, Shamshabad, Hyderabad, Telangana 501218	Mallika Convention
2	Nikhila Putcha	G 05 SUMADHURA SHANGRILLA; SEETHARAMAPALYA MAHADEVAPURA; BANGALORE; Bangalore; Karnataka; 560048; India	GSS Prosper Springs Private Limited https://www.moneyplanned.com/ (https://www.moneyplanned.com/)

3	Y. Sravani	3rd Floor, Suryalok Complex, Rosary Convent School Road, Gun Foundry, Basheer Bagh, Hyderabad, Telangana – 500001	M/s. ACE ENGINEERING PUBLICATIONS https://www.aceengineeringpublications.com/ (https://www.aceengineeringpublications.com/)
4	Raaga Mayuri (Director for two companies)	Agrovet: 78-8-A-12-2-108, Flat No. 13, 14 & 15 MAYURI RESIDENCY, VITTAL NAGAR, DEVA NAGAR KURNOOL AP 518002 INDIA	1. Raaga Mayuri Agrovet Pvt. Ltd. Elcina Raaga Mayuri 2. Electronics Park Pvt. Ltd. http://www.raagamayurimegafoodpark.com/ (http://www.raagamayurimegafoodpark.com/) http://raagamayurielectronicpark.com/ (http://raagamayurielectronicpark.com/)

Participation at WILC-2023 by M. Liz Gebhard Head of Diversity, Amazon on 8th Mar., 2023

Panel Discussion on "Unlocking potential: How entrepreneurship is Enabling Womens Career Growth" on 9th Mar., 2023

Winners of Yuva-Young Innovation Challenge, an Ideathon on 17th April, 2023

Sahithi Divi , CEO, Soul of Swadesh & Praveen Dorna, Co founder, SocioHub - Community Building today for a Sustainable tomorrow on 9th March., 2023

Workshop on "STARTUPS, CREATIVITY and INNOVATION-Make Your Idea to Happen" on 16th Jun., 2022

Participation of student at Idea pitching competition and Student Entrepreneur Talk on 29th Dec., 2021

9.7 Co-curricular and Extra-curricular Activities Total Marks 10.00

Institute Marks : 10.00

A. Availability of sports and cultural facilities (3)

B. NCC, NSS and other clubs (3)

C. Annual students activities (4)

A. Availability of sports and cultural facilities (3)

Sports Facilities

Sports Achievements and Activities

Dr. M.V.L. Surya Kumari- Head, Department of Physical Education

Dr.M.V.L.Surya Kumari has 30 years' experience and is currently heading the Department of Physical Education at GNITS.

She is a Nationals Gold medalist in Athletics and was awarded the first Ph.D. in the area of Physical Education by the Osmania University having carried out her research work at NIN, Hyderabad.

A certified Yoga Trainer, Diabetes Therapist from National Yoga University, SVYASA, Benguluru and an Internationally accredited certified Fitness Trainer from FAB academy (USA).

Published/ presented more than 30 research papers in various National/ International Journals and Conferences at USA, Australia, Thailand, UK (London- Pre London Olympic conferences at Glasgow and Cambridge University) and India.

Member of Board of Studies for MS (Sports Science), JNTU Kakinada and Visiting Professor for the same course. She guided one Ph.D. scholar in Physical Education from JNTUH.

She is a recipient of National Eminent Educator Award from IFPESS, Prox-R and D Award in Academics (Physical Education), Outstanding Distinguished Service Award from GNITS and Best Teacher award from Rotaract Club, Hyderabad.

Objectives of Department:

The department was established with the following objectives.

- Development of wholesome personality of all the students through their participation in various sports and games.
- Development of sports infrastructural facilities.
- Preparation of college teams for the inter college and university tournaments in different events.
- Organization of Intra college competitions between different departments to provide opportunity for all the students to participate in various sports events.
- Organisation of Inter college tournaments at GNITS to motivate students and to develop leadership abilities among students.

Infrastructure- Sports:

Outdoor Facilities:

- Basket Ball Court – 1
- Volleyball Court -1
- Throw ball Courts -2
- Handball Court-1
- Kho Kho – 1
- Kabaddi Court – 1
- Open/outdoor Gym with 17 items

Fig.9.7.1 Sports Ground

Fig.9.7.2 Fitness wing

Indoor Facilities:

- Indoor Badminton Stadium with 2 Wooden Courts with International Standard Lining synthetic mats.
- Sports Room equipped with Table Tennis, Chess and Carrom Boards
- Fitness wing with 8 Station Gym, Jogger, Ab. Exercisers, 2 Cross Trainers, 2 Exercise Cycles and other Toning Equipment (Medicine Balls, Dumbbells, Thera Bands etc.)
- Yoga Hall



Fig.9.7.3 Yoga Hall

Sports Coaching Programmes:

GNITS has been organizing sports coaching programmes to inculcate sports culture among GNITS students that would help them to develop their wholesome personality and life skills They include coaching programmes in Basketball. Throw ball, Volleyball, Kho Kho, Kabaddi, Table Tennis and Badminto disciplines by experienced coaches.

Fig.9.7.4 Students practicing in grounds

Table 9.7.1 **Sports Achievements for the Academic Year 2023-2024**

S.no	Roll No	Name of the Student	Name of the Sports	Team/ Individual	State/ National/ International	Award	Date	Venue
1.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	13 &15 October 2023	M.G.I.T Institute of Technology
2.	20251A3638	G. Pranathi	Volley ball	Team	State level	Winners	13 &15 October 2023	M.G.I.T Institute of Technology
3.		M.Dhamanika	Fist Ball	Single	National level	Runner	27 to 29 October 2023	Akshara Public School, vedasandur,Tamilnadu
4.	20251A6651	P.Dharani	Kho-Kho	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
5.	21251A6764	M.V.Vindhya	Table Tennis	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
6.	22251A05H0	Haniah fathima	Table Tennis	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
7.	21251A04C4	P.Harshitha	Table Tennis	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
8.	21251A6764	M.V.Vindhya	Table Tennis	Singles	National level	Runner	18 to 20 Nov 2023	Gudlavalleru Engineering College
9.	22251A05H0	Haniah fathima	Table Tennis	Singles	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
10.	21251A6712	G.Thanushitha Reddy	Tennis	Singles	National level	Runner	18 to 20 Nov 2023	Gudlavalleru Engineering College
11.	21251A6712	G.Thanushitha Reddy	Tennis	Doubles	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
12.	23251A6721	M.Charisha	Tennis	Doubles	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
13.	20251A6651	P.Dharani	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
14.	20251A233	G.Tejaswi	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
15.	21251A0228	S.Meenakshi	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College
16.	23251A1271	E.Himaja	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Gudlavalleru Engineering College

17.	21251A0410	K.Jyoshtna	1500mRUN	Singles	National level	Third	18 to 20 Nov 2023	Gudlavalleru Engineering College
18.	23251A1271	E.Himaja	Long Jump	Singles	National level	Third	18 to 20 Nov 2023	Gudlavalleru Engineering College
19.	20251A05G3	M.Supriya Reddy	Throw ball	Team	National level	Winners	20 to 22 Nov 2023	Sreenidhi Institute of Science and Technology,
20.	20251A0233	T.Tejaswi	Kho-Kho	Team	National level	Runners	20 to 22 Nov 2023	Sreenidhi Institute of Science and Technology,
21.	20251A0278	T.A.L Sravani	Throw ball	Team	State level	Winners	21 to 23 Nov 2023	Vardhaman College of Engineering
22.	20251A6651	P.Dharani	Kho-Kho	Team	State level	Winners	21 to 23 Nov 2023	Vardhaman College of Engineering
23.	20251A1282	Sahithi varma	Basket Ball	Team	State level	Winners	21 to 23 Nov 2023	Akhil Bharatiya vidharthi parishad
24.	20251A05G3	M.Supriya Reddy	Throw ball	Team	State level	Winners	21 to 23 Nov 2023	Akhil Bharatiya vidharthi parishad
25.	20251A3656	S. Srujana	Basket Ball	Team	National level	Runners	27 Jan to 3rd Feb 2024	Anurag University
26.	21251A1217	M. Vainavi	Badminton	single	National level	Runner	27 Jan to 3rd Feb 2024	Anurag University
27.	20251A3654	Santhoshi Pavani	Throw ball	Team	National level	Winners	1 to 3 Feb 2024	Vignan University
28.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	1 to 3 Feb 2024	Vignan University
29.	21251A0228	S.Meenakshi	4X100 mts Relay	Team	National level	Runners	1 to 3 Feb 2024	Vignan University
30.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	15 &16 Feb 2024	Mahindra University
31.	20251A3654	Santhoshi Pavani	Throw ball	Team	National level	Winners	18-Feb-24	VIT-AP University
32.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	18-Feb-24	VIT-AP University
33.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	19 & 20 Feb 2024	KL University
34.	20251A0278	T.A.L Sravani	Throw ball	Team	National level	Winners	21-Feb-24	KL University
35.	21251A0228	S.Meenakshi	100 mrts	Singles	National level	Runners	19-Feb-24	KL University
36.	21251A0410	K.Jyoshtna	1500mRUN	Singles	National level	Runner	19-Feb-24	KL University
37.	20251A0278	T.A.L Sravani	Throw ball	Team	National level	Winners	23 & 24 Feb 2024	BVRIT
38.	20251A3638	G. Pranathi	Volley ball	Team	National level	Runners	23 & 24 Feb 2024	BVRIT
39.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	28 & 29 Feb 2024	Cvr
40.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	28 & 29 Feb 2024	Narsimha Reddy Engineering College
41.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	28 & 29 Feb 2024	VJIT
42.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	28 & 29 Feb 2024	VJIT
43.	22251A05H0	Haniah fathima	Table Tennis	Doubles	National level	Winners	1 & 2 March 2024	VJIT
44.	22251A05H0	Haniah fathima	Table Tennis	Doubles	National level	Winners	1 & 2 March 2024	VJIT
45.	21251A6764	M.V.Vindhya	Table Tennis	Singles	National level	Runner	1 & 2 March 2024	VJIT
46.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	12 & 23 March 2024	JBIT
47.	20251A6651	P.Dharani	Kho-kho	Team	National level	Winners	12 & 13 March 2024	JBIT

Table 9.7.2 Sports Achievements for the Academic Year 2022-2023

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International	Award	Date	Venue
1	21251A1217	M.Vainavi	Badminton	Doubles	State level	Runner	14 & 15 Aug 2022	BHEL, Hyderabad
2	21251A6648	M. Sriya	Badminton	Doubles	State level	Runner	14 & 15 Aug 2022	BHEL, Hyderabad

3	21251A04C4	P.Harshitha	Table Tennis	Single	State level	Runner	14 & 15 Aug 2022	BHEL, Hyderabad
4	21251A0485	P.Manasa	Table Tennis	Single	State level	Winner	14 & 15 Aug 2022	BHEL, Hyderabad
5	21251A6764	M.V.Vindhya	Table Tennis	Single	State level	Winner	14 & 15 Aug 2022	BHEL, Hyderabad
6	20251A04G4	N. Rashmitha	Chess	Single	State level	Runner	14 & 15 Aug 2022	BHEL, Hyderabad
7	20251A1722	S. Shivani	Kabaddi	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
8	20251A6651	P.Dharani	Kho Kho	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
9	20251A1282	M.Sahithi Varma	Basket Ball	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
10	21251A0262	Anjali	Volleyball	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
11	20251A3654	S.v.l. Santhoshi Pavani	Throw Ball	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
12	19251A1272	G.Geetha Krishna	Badminton	Individual	District level	Winners	19/8/22	Chaitanya Bharathi Institute of Technology
13	19251A0543	S. Shreya	Throw ball	Team	State Level	Winners	12&13Octo2022	B V R I T
14	19251A05A0	N. Charitha	Volley Ball	Team	State Level	Winners	12&13Octo2022	B V R I T
15	19251A05A0	N. Charitha	Volley Ball	Team	National	Winners	4th&6Nov2022	Chaitanya Bharathi Institute of Technology
16	19251A0543	S. Shreya	Throw ball	Team	National	Winners	4th&6Nov 2022	Chaitanya Bharathi Institute of Technology
17	19251A05F4	L. Ramya Sri	Table Tennis	Individual	National	Runner	4th&6Nov 2022	Chaitanya Bharathi Institute of Technology
18	20251A05G3	M.Supriya Reddy	Throw ball	Team	National	Winners	25th&26NOV2022	G N I T S
19	19251A0489	Charishma Reddy	Volley Ball	Team	National	Runner	25th&26NOV2022	G N I T S
20	19251A1217	Esha Reddy	BasketBall	Team	National	Runner	25th&26NOV2022	G N I T S
21	20251A0245	P.Sri Lakshimi	Kho Kho	Team	National	Winners	25th&26NOV2022	G N I T S
22	19251A1272	G.Geetha Krishna	Badminton	Individual	National	Winners	25th&26NOV2022	G N I T S
23	19251A05F4	L. Ramya Sri	Table Tennis	Individual	National	Winners	25th&26NOV2022	G N I T S
24	19251A1279	J. Chandrika	Kho Kho	Team	National	Winners	2&3Dec 2022	Sridevi Women's Engineering College
25	21251A0228	S.Meenakshi	100m RUN	Single	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
26	23251A1271	E.Himaja	100 m RUN	Single	State	Runners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
27	20251A1711	Meghana	200 m Run	Single	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
28	20251A0435	Aruna	200 m Run	Single	State	Runners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
29	20251A1711	Meghana	400 m Run	Single	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
30	20251A6651	P.Dharani	400 m Run	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
31	21251A0410	K.Jyoshtna	800 m Run	Single	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
32	20251A233	G.Tejaswi	800 m Run	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
33	20251A1711	Meghana	4x100mRelay	Team	State	Winner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
34	21251A0228	S.Meenakshi	4x100mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
35	23251A1271	E.Himaja	4x100mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
36	20251A6651	P.Dharani	4x100mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
37	20251A233	G.Tejaswi	4x400mRelay	Team	State	Winner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
38	20251A0435	Aruna	4x400mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad

39	21251A0410	K.Jyoshtna	4x400mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
40	20251A6651	P.Dharani	4x400mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
41	21251A0263	A.Alekhya	Short Put	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
42	21251A6717	P.Kavya	Discus Throw	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
43	19251A0543	S. Shreya	Throw ball	Team	State Level	Winners	2&3Feb2023	CVR
44	19251A0543	S. Shreya	Throw ball	Team	National	Winners	2nd -5th feb 2023	BITS
45	19251A05F4	L. Ramya Sri	Table Tennis	Team l	National	Winners	9&10 2023	V N R V J I T
46	22251A05H0	Haniah fathima	Table Tennis	Team l	National	Winners	9&10 2023	V N R V J I T
47	19251A1279	J. Chandrika	Kho Kho	Team	National	Runner	19 Feb to 2nd Mar 2023	VIT AP University
48	19251A0543	S. Shreya	Throw ball	Team	National	Winners	19 Feb to 2nd Mar 2023	VIT AP University
49	19251A05F4	L. Ramya Sri	Table Tennis	Team l	National	Winners	27th,28th FEB 2023	Arora
50	21251A0403	M.Mounika	Volley Ball	Team	National	Winners	2&3 Mar2023	V J I T
51	21251A1217	M.Vainavi	Badminton	Team	National	Winners	2&3 Mar2023	V J I T
52	19251A0543	S. Shreya	Throw ball	Team	National	Winners	2&3 Mar2023	V J I T
53	19251A1217	Esha Reddy	Basket Ball	Team	National	Runner	2&3 Mar2023	V J I T
54	19251A05F4	L. Ramya Sri	Table Tennis	Team l	National	Winners	2&3 Mar2023	V J I T
55	19251A1279	J. Chandrika	Kho-Kho	Team	National	Winners	9&10 Mar2023	Anurag University, Hyderabad
56	19251A0543	S. Shreya	Throw ball	Team	National	Winners	9&10 Mar2023	Anurag University, Hyderabad
57	19251A05A0	N. Charitha	Volley Ball	Team	National	Winners	9&10 Mar2023	Anurag University, Hyderabad
58	19251A05A0	N. Charitha	Volley Ball	Team	National	Winners	3rd and 4th april 2023	Mahindra University, Hyderabad
59	19251A0543	S. Shreya	Throw ball	Team	National	Winners	3rd and 4th april 2023	Mahindra University, Hyderabad
60	21251A1217	M.Vainavi	Badminton	Team	National	Third	3rd and 4th april 2023	MahindraUniversity, Hyderabad
61	19251A0543	S. Shreya	Throw ball	Team	State level	Winners	17 th -18th april 2023	KG Reddy College of Engineering and Technology
62	19251A05A0	N. Charitha	Volley Ball	Team	State level	Winners	17 th -18th april 2023	KG Reddy College of Engineering and Technology
63	20251A1722	S. Shivani	Kabaddi	Team	State level	Winners	17 th -18th april 2023	KG Reddy College of Engineering and Technology
64	21251A1217	M.Vainavi	Badminton	Individual	State level	Winners	17 th -18th april 2023	KG Reddy College of Engineering and Technology
65	21251A6648	M. Sriya	Badminton	Individual	State level	Runner	17 th -18th april 2023	KG Reddy College of Engineering and Technology
66	19251A1279	J. Chandrika	Kho-Kho	Team	National	Winners	26&27April2023	GokarajuRangaraju Insitutite of Engineering&Technology
67	21251A6764	M.V.Vindhya	Table Tennis	Team	State level	Winners	9&10Jun2023	J.B Instituteof EngineeringAnd Technology
68	19251A0543	S. Shreya	Throw ball	Team	State level	Winners	9&10Jun2023	J.B Instituteof EngineeringAnd Technology
69	20251A6651	P.Dharani	Kho-Kho	Team	State level	Winners	9&10Jun2023	J.B Instituteof EngineeringAnd Technology

Table 9.7.3 Sports Achievements for the Academic Year 2020-2021

S.NO	Event Organized	Resource Person	Date	Duration	Venue	Number of participants
1	X national level Inter Engineering College Sports meet for Women, VERVE-22	Ms. Naina jaiswal, International Table tennis Player .MS.K.Sindhuja International Archer	25th and 26th Nov. 2022	2 days	GNITS	600
2	Silver Jubilee Sports Day Celebrations	DCP of Telangana Smt.Shirisha Raghavendra.	14th Dec. 2022	1 Month	GNITS	700
3	2k Freedom Run	Chairman Sri. P. Subba Reddy. Principal Dr. K. Ramalinga Reddy.	26/1/2023	1 Day	GNITS	150
4	Yoga for Wellness	Yogacharya Brij Bhushan Purohith-Namasthe Yoga foundation Hyderabad.	18/6/ 2023	3 Days	GNITS	300

5	Azadi Ka Amrit Mahotsav Celebrations	Principal Dr. K. Ramalinga Reddy	15/8/2023	1 Day	Ground,GNITS	580

Table 9.7.4 Sports Achievements for the Academic Year 2020-2021

S.No	Roll No	Name of the Student	Name of the Sports	Team/ Individual	State/National /International	Award	Date	Venue
1	19251A05F4	L.Ramya Sri	Table Tennis	Individual	National	Runner	6-12-2021 to 9-12-2021	Sreenidhi Institute of Science and Technology
2	18251A1228	T.Sruthi	Table Tennis	Team	National	winners	6-12-2021 to 9-12-2021	Sreenidhi Institute of Science and Technology
3	18251A0574	K.Vineesha	Throw Ball	Team	National	winners	6-12-2021 to 9-12-2021	Sreenidhi Institute of Science and Technology
4	15251A1739	Yogini	Volley Ball	Team	National	winners	6-12-2021 to 9-12-2021	Sreenidhi Institute of Science and Technology
5	21251A3628	Jayasree Parini	Chess	Individual	State	Winners	27-12-2021	Rishi MS Institute of Engineering and Technology for women

Table 9.7.5 Sports Achievements for the Academic Year 2020-2021ports Activities Conducted for the Academic Year : 2020-2021

S.NO	Event Organized	Resource Person	Date	Duration	Venue	Number of participants
1	Mini Sports Fest	Principal Dr. K. Ramalinga Reddy.	15-12-2021 to 30-12-2021	15 Days	GNITS	300
2	Yoga for Wellness-Webinar	Yogacharya Brij Bhushan Purohith-Namasthe Yoga foundation Hyderabad. Dr.D.Jyothi-Associate Proffesor,National Sanskrit University,Tirupathi	12-06-2022	1 Day	online	324
3	A seminar on Physical Literacy for health and Fitness	Dr.Amit Malik-India Lead-International Physical Literacy Association,Hyderabad.	14/06/2022 to 17/06/2022	3 Days	Main seminar hall, Admin block	100
4	A workshop on Yoga for womens health	Yogacharya Brij Bhushan Purohith-Namasthe Yoga foundation Hyderabad.	14/06/2022 to 17/06/2022	3 Days	H3 block,GNITS	45
5	Azadi Ka Amrit Mahotsav Celebrations	Principal Dr. K. Ramalinga Reddy	15/8/2022	1 Day	Ground,GNITS	500





Fig.9.7.5 Glimpses of Various Events and Activities Conducted

Cultural Facilities

Extra-curricular Activities

An excellent and well-rounded academic course always includes extra-curricular activities and co-curricular activities. In order to encourage student participation and involvement we at GNITS have very diverse and engaging student lead clubs.

These clubs are instrumental in providing a platform for students to hone their skills, show case their talent and develop their leadership abilities. Be it self-defence or social responsibility or creativity we have very active student clubs in each of these domains. The following is the list of student clubs and which show a glimpse of their activities.

Samskruthi – GNITS cultural club

Soaring Beyond Boundaries

Ø **Samskruthi-** GNITS cultural Club was established in 2008, stands as the vibrant cultural club of GNITS, dedicated to the celebration and promotion of diverse cultural expressions.

Ø Through a rich tapestry of events, workshops, and performances, Samskruthi endeavours to create a platform where students can deeply engage with various art forms, traditional practices, and modern creative pursuits.

Ø Playing a pivotal role in fostering creativity, teamwork, and a profound understanding of cultural diversity within the GNITS community, Samskruthi has evolved into a dynamic hub of talent and cultural richness.

Ø The club organizes a series of flagship events, featuring mini-fests that embody the festive spirit throughout the academic year.

Ø From the Christmas and New Year celebrations to Diwali and Dusshera festivities, Samskruthi ensures each cultural occasion is marked with joy, enthusiasm, and traditional fervour. The inter-college cultural meet facilitates cultural exchange, allowing students to showcase their talents and engage with diverse artistic expressions.

The Annual Day and Annual Cultural Fest, Asterias, represent the pinnacle of Samskruthis efforts, providing a grand stage for students to exhibit creativity, skills, and cultural pride.

Fig.9.7.6 Deccan Project performance: Silver Jubillee-2023


Fig.9.7.7 Pottery work shop : Silver jubilee celebrations **Fig.9.7.8 K-POP stall : Asteria-2023**

- **Literaria Clava,** the literary club of GNITS was christened in 2011. It is a sanctuary for those who cherish the magic of the written word.
- The mission of the club is to ignite the flames of literary passion in the hearts of its members and encourage them to venture beyond the boundaries of their imaginations.
- With a plethora of events, the club offers a multitude of avenues to celebrate the beauty of literature.
- Literaria Clava has hosted a number of successful events that received an overwhelming participation by students over the years.
- The club is committed to fostering communication, rhetorical, and cooperative skills, as well as actively inspiring students to evolve into adept orators, showcasing their intellectual independence and critical thinking prowess.
- Through these dynamic events, Literaria Clava not only fosters a vibrant literary culture but also instills a profound sense of confidence in its members as they navigate the captivating realm of words and ideas.

Fig.9.7.9 Literaria Clava : Student body 2022-2023

ARTISTA

YOUR PASSION OUR PLATFORM

Ø **ARTISTA, the art club of GNITS**, was endowed in 2016 and is one of the finest clubs in the college, paving the way for the students with creative skills and talents to bring them to the forefront through various activities, events, and workshops.

Ø Art has the characteristics of raising questions and breaking existing thinking, the club hopes to cultivate students ability to diverge and enhance their creativity through the implantation of art.

This club aims to promote creativity, artistic expression, and a supportive environment for members by hosting workshops, providing platforms for experimentation, fostering a collaborative culture, and welcoming diverse backgrounds and skill levels.

Fig.9.7.10 Artista : Student ET -2022-23

Suswara

Symphony to your soul

- **Music club of GNITS**, established in year 2022-SUSWARA aspires to nurture musical talent and put on shows that everyone can cherish .The club has the most talented singers and musicians ranging from classical genre to western genre, Veena players to Guitarists holding up our moto- 'Symphony to your Soul'.
- Our objective is to celebrate diverse music, creating an inclusive space for unity through melodies. We strive to nurture a community where passion for singing flourishes, inspiring members to express their unique musicality
- Events and activities conducted by the club:
  - Suswara's First Recital
  - Suswara's Inaugural
  - Inter-College cultural fest
  - Silver Jubilee celebrations-Musical night
  - WILC
  - Event at Statue of Equality
  - Independence day celebrations
  - Induction program


Fig.9.7.11 Performance of Suswara Team

ABHAYA

- **ABHAYA, is the women safety club of GNITS** that came into limelight in the year of 2020 with an aim of creating a safe environment for women, empowering them and enabling them to raise their opinions.
- This club is an initiative taken by Mrs.T.Aparna mam, students of GNITS in collaboration with TS Police. Since the establishment of ABHAYA we have conducted several events, seminars and self-defense training for women to publicize the club and its ideas.
- We started entering into all the possible social handles for staying well-connected with women who needs our help.
- Most of the ABHAYA members are well trained to reach out to people and help them. We also dealt with a couple of cases out of campus who pinged us through our Instagram handle.
- This webpage is also built to get much closer to you. With this web page as an interface, we would like to thank everyone for being so positive towards ABHAYA and we promise to help all the women out there whos in need.

Fig.9.7.12 Self-defence workshop by Abhaya.

- **The Rotaract Club** of GNITS was established in 2014 in association with Rotaract District 3150. Rotaract GNITS is dedicated to promoting the Rotary International values of service above self, ethical leadership, and global citizenship.
- Rotaract is distinguished from other college clubs because of its global perspective - being a part of the larger Rotary International network which is a global organization that spans continents and countries.
- At the heart of the Rotaract Club of GNITS are its diverse avenues, each contributing to a well-rounded approach to service and personal growth.
- The club is organized into several pillars, including community services, international services, finance, club services, and professional development.
- These pillars form the foundation for the clubs multifaceted initiatives and events that span a wide range of fields.
- Through its diverse range of activities, including MUNs, donation drives, and seminars, the Rotaract Club of GNITS exemplifies a commitment to service, personal development, and community engagement. With each initiative, the club aims to leave a mark, embodying the principles of Rotaract and inspiring positive change in the world.

Fig.9.7.13 Rotaract : Student committee

Cultural Events / Competitions

The following is the list events conducted during the AY: 2023-2024

Table 9.7.6 list events conducted during the AY: 2023-2024

S.No	Name of the Event	Date	Number of Participants
1	Book Mark 'ed (Lit Coven)	14th July 2023	40
2	Laddoo Hunt	15th September 2023	150
4	Samosa with Samskruthi	15th September,2023	17
5	Christmas Fest	28th December,2023	140
6	Blind Date with a Book	28th December 2023	50

Table 9.7.7 list events conducted during the AY: 2022-2023

Sl.No	Name of the Event	Date	Number of Participants
1	Nirvana	15-10-2022	300
2	Miss GNITS	25-11-2022	34
3	Verve X GNITS	25-11-2022	740
4	Deccan project X GNITS	25-11-2022	2000
5	Women in Leadership Conclave -2023	7-3-2023 to 8-3-2023	1050

Table 9.7.8 list events conducted during the AY: 2022-2023

S.No	Name of the event	Date	No.of participants
1.	Asteria 2021 (cultural mini fest)	24-08-2021	100
2.	Diwali 2021	01-11-2021	90
3.	Minifest 2021	18-12-2021	150
4.	Club Rendezvous	11-03-2022	50
5.	Asteria 2022 (cultural minifest)	06-05-2022	150
6.	Valedictory 2022 and Krithi Magazine Release	25-06-2022	50

College Annual Day Celebrations

- **College Annual Day** is celebrated with great joy and pride at the end of the academic year to appreciate the students' achievements in all curricular, co-curricular and extracurricular activities conducted throughout the year.
- Gold Medals are given to the students who have excelled and topped the branch with highest aggregate pass percentage, Academic prizes are given year-wise and branch-wise to the students with highest pass percentage during the academic year.
- Awards are given to the Prize winning students led by faculty members in various technical events. Besides, academic and technical achievements Awards and rewards are given to the students who have shown outstanding performance in Sports, Literary and Cultural events followed by the cultural performances both by the students and the staff members.
- Annual Day Celebrations offer students, staff, faculty members, Management members to come together and bring about a sense of togetherness with diverse streams and cultures.
- The year 2022 marks the milestone of celebrating 25 years of Excellence in Technical Education by GNITS. Silver Jubilee Celebrations were conducted on 15th December, 2022 on the occasion of Founders Day.
- Prof.Katta Narasimha Reddy as Chief Guest of the function and Ms.Triveni Bonthu, Associate Director, LTI Mind Tree as Guest of Honour graced the occasion.
- Silver Jubilee Year was marked by 75 years of Azadi Ka Amrith Mahotsav was made much more memorable and with the visit of the President of India Smt.Draupadi Murmu.

Fig.9.7.14 Cultural Activities performed on the Occasion of Silver Jubilee Celebrations

B.NCC, NSS and Other Clubs (3)

NATIONAL SERVICE SCHEME (NSS).

The main motto of the National Service Scheme is '**NOT ME BUT YOU**'. This reflects the essence of democratic living and uphold the need for selfless service and appreciation of the other person's point of view and also to show consideration for fellow human beings. Therefore, it should be the aim of the NSS to demonstrate this motto in its day to day programmes.

Under NSS these are the Six Clubs/Wings including NSS are the part of the NSS Activities.

The names of the Wings/Clubs are: -

1. **NSS Unit/Wing**
2. **Aarambh Student's Club**
3. **Abhaya**
4. **Jeeyar Youth Club**
5. **Rotaract**
6. **Street-Cause**

Each club has its own Executive Body and members around 100 volunteers for each one. Altogether, there are around 500 plus students' volunteers and faculty departmental coordinators.

Functions or objectives of NSS Cell

- The main objective of National Service Scheme is personality development through social service or community service.
- The students have to understand themselves their relation to the community
- Identify the needs and problems of the community and involve them
- Developing social and civic responsibility
- Improving leadership quality
- Practice National integration
- Developing the social harmony skills
- This program aims at inculcating social welfare thoughts among the students by providing service to the society without any prejudice.

Table 9.7.**9 NSS activities conducted during: 2023 – 2024**

S.No.	Name of the Activitity	Date	No. of participants
1	Blood Donation Camp in association with Round table India, Jubilee Hills, Hyderabad.	20-11-2023	126

2	Kargil 24th Vijay Diwas organized at KMIT, Hyderabad.	25-07-2023	125
3	Free Medical Camp in association with All Health Group, Hyderabad.	23-09-2023	62
4	Awareness Program on Traffic and Road safety, Telangana Police.	13-02-2024	55
5	Awareness Program on Mental Health.	10-10-2023	180
6	Awareness Program on CPR and First Aid, at Rashtrapati Bhavan, Hyderabad.	14-02-2024	58
7	SCRIBES to write the Sanskrit exam for Netralaya Degree College, Muchintal, Hyderabad.	14-12-2023	42
8	SCRIBES to write the Sanskrit exam for Netralaya Degree College, Muchintal, Hyderabad.	30-12-2023	40
9	Awareness Program on Cancer, Jeeyar Youth Club, Hyderabad.	04-02-2024	240
10	Mental Health Forum, Rotaract-GNITS.	10-10-2023	49
11	Winter Essentials Collection drive for Orphanage Donation, Rotaract-GNITS.	7-11-2023 to 10-11.2023	18
12	Vision Board designing completions at GNITS.	03-01-2024	22
13	National Youth Day – Swami Vivekananda Birth Day celebrations.	10-01-2024	59
14	Self Defence workshop by SHE Team, TS Police.	28-12-2023	117
15	National Girl child day by Women Safety wing, Cyberabad, Telangana Police.	24-01-2024	100

Table 9.7.**10 NSS activities conducted during: 2022 – 2023**

S.No.	Name of the Activitity	Date	No. of participants
1	Awareness Programme on Rural Development by Aware Group, Hyderabad.	28-11-2022	312
2	Blood Donation Camp by Rotary Club, Hyderabad Central.	22-12-2022	135
3	Free Medical Camp by Vijaya Diagnostics, Hyderabad.	08-03-2023	122
4	Awareness Programme on Narcotic Drugs with adverse effects.	03-06-2023	35
5	Provision of tableware, Street Cause, Hyderabad.	24-05-2023	25
6	CC Cameras Installation.	23-05-2023	15
7	RFC 9.0, Concert.	08-04-2023	33
8	Online Competitions for Skill Development.	25-01-2023	40
9	Winter Clothing Drive, Corporate social responsibility.	08-01-2023	45
10	Sports Equipment, Corporate social responsibility.	20-12-2022	50
11	Vastra Daana, Corporate social responsibility.	23-09-2022	30
12	Menstrual Hygiene, Corporate social responsibility.	25-09-2022	20
13	School Supplies stationery, Corporate social responsibility.	19-09-2022	35
14	Career guidance, Corporate social responsibility.	12-09-2022	40
15	Distribution of Benches.	08-09-2022	65
16	Providing Laptop and Projector, Corporate social responsibility.	26-07-2022	20

17	Distribution of benches and water purifier, Corporate social responsibility.	10-07-2022	20
18	Creating a model Parliament, MUN, Rotaract-GNITS.	28-01-2023	100
19	Dr. Reddy's Labs women safety awareness session.	10-02-2023	100

Table 9.7.**11 NSS activities conducted during: 2021 – 2022**

S.No.	Name of the Activitity	Date	No. of participants
1	Blood Donation Camp by Red Cross, Hyderabad.	07-04-2022	68
2	Free Medical Camp by Vijaya Diagnostics, Hyderabad.	08-04-2022	138
3	Haritha Haram at GNITS, Hyderabad.	18-04-2022	150
4	Free Distribution of Beds and Pillows for Needy people, Abdullapurmet Mandal, Telangana.	03-02-2022	6
5	Provision of Cooking suppliences.	18-04-2022	25
6	Construction of Handwash and Running system.	18-04-2022	10
7	Construction of water tank.	03-03-2022	10
8	Blanket donation drive.	16.04-2022	25
9	Provision of lights wiring and school gate.	26-11-2021	15
10	Provision of Benches.	30-11-2021	30
11	Garbha Night for Fund-Raising.	19-10-2021	1289
12	Global Young Leaders Conclave, Rotaract, Hyderabad.	07-10-2021	115
13	Awareness program on home sparrow conservation launch, Rotaract-GNITS.	24-03-2022	120
14	What do you need from Freedom, Rotaract-GNITS.	15-08-2021	40
15	University Diversity, Rotaract-GNITS.	15-08-2021	45
16	Project Akshaya-Donation of Earthen Pots, Rotaract-Hyderabad.	26-04-2022	26
17	Awreness Program on home sparrow conservation launch, Rotaract-Hyderabad.	24-03-2022	120
18	Project Akshaya-Donation of Earthen Pots, Rotaract-Hyderabad.	26-04-2022	21
19	"Train the Trainer" Volunteering program – "Girl safety club".	17-11-2021	36
20	Girl safety club "ABHAYA" Awareness Program.	30-11-2021	2200
21	International Women's Day one week celebrations.	07-03-2022 to 11-03-2022	120

Table 9.7.**12 NSS activities conducted during: 2020 – 2021**

S.No.	Name of the Activitity	Date	No. of participants

1	Serving Food for Needy People at ESIC Hospital (Sanath nagar) in Pandemic.	18-08-2021 to 19-08-2021	6 (250 Food Packets were served)
2	Haritha Haram at GNITS.	16-07-2021	12
3	Yoga for Old People.	07-02-2021	15
4	Personality Development Program.	26-01-2021	20
5	Blanket drive in the streets of Hyderabad.	18-12-2021 and 19-12-2021	70
6	Provision of school equipment to Government Nehru Memorial school, Hyderabad.	29-11-2020	59
7	Provision of groceries to karuna Jyothi Orphanage, Hyderabad.	30-11-2020	44
8	Slum Adoption Project, Hyderabad.	22-11-2020	50
9	Sanitation Work at Amma Ashramam, Warangal.	08-09-2020	34
10	Slum Adoption Project, Hyderabad.	04-09-2020	80
11	Walking Sticks Distribution in Yenkannapally village.	05-08-2020	24
12	Building Water Tank in Yenkannapally Village.	06-08-2020	85
13	Medical camp in Nidmanoor, Nalgonda Dist.	23-08-2020	129
14	Stationery Distribution to Telangana Primary School, Nalgonda District.	23-08-2020	50
15	Health Awareness Program to Villagers of Nidmanoor, Nalgonda Dist.	23-08-2020	18
16	Personality Development Program to students of Telanagana, primary School, Nalgonda District.	23-08-2020	10
17	Distribution of groceries care Warriors Foundation Hyderabad.	09-08-2020	45
18	"TRAIN THE TRAINER" by Telangana Police Women safety wing.	04-01-2021 to 08-01-2021	29

NSS ACTIVITIES CONDUCTED 2022-2023

- Awareness Programme on Rural Development by Aware Group
- Blood Donation Camp by Rotary Club, Hyderabad Central
- Free Medical Camp by Vijaya Diagnostics
- Awareness Programme on Narcotic Drugs with adverse effects

1.**A Report on Awareness Programme on Rural Development by Aware Group**

GNITS NSS Unit had organized "Awareness Program on Rural Development" on 28.11.2022. The programme was chaired by Dr. P.K.S. Madhavan, Chairman of Aware group.

As a part of this program our honorable Chief Guest had shared this life time experiences on working with up lifting of Naga tribals of Shillong, Meghalaya et.c.

The programme was grand success with the presence of 312 students and several staff members along with the Vice Chairman, Principal of GNITS.

Fig.9.7.15 Awareness Programme on Rural Development by Aware Group

2. A Report on Blood Donation Camp by Rotary Club, Hyderabad Central

Blood Donation camp was conducted on 22nd December, 2022 at GNITS in collaboration with Rotary Club, Hyderabad Central, Hyderabad. In this camp 40 volunteers participated. This camp was successful with 118 Donors including staff and students. The Chairman of the college Sri. P. Subba Reddy garu and Principal Dr. K. Ramesh Reddy garu have appreciated the initiative and the social responsibility of the students in donating the blood.

Fig.9.7.16 **Blood Donation Camp by Rotary Club, Hyderabad Central**

3. Report on Free Medical Camp by Vijaya Diagnostics

As a part of Silver Jubilee Celebrations GNITS NSS Unit had organized a free medical camp on 08.03.2023, in association with Vijaya Diagnostics, Hyderabad. For this free medical camp there were 62 faculty and 60 students have taken free medical checkups.

In this regard, Chairman, Sri. P. Subba Reddy, Principal Dr. K. Ramesh Reddy appreciated the faculty and students for their active involvement in camp.

Fig.9.7.17 **Free Medical Camp by Vijaya Diagnostics**

Report on Awareness Programme on Narcotic Drugs with adverse effects

GNITS NSS Unit had attended awareness programme on “Narcotic Drugs and adverse effects” at JNTUH in association with Telangana state counsel of higher education on 3rd June, 2023. The programme were chaired by Hounourable Justice of High Court Sri. B. Vijay Sen Reddy, Chairman, TSCHE Professor R. Limbadri, Vice Chancellor of JNTUH Prof. K. Narasimha Reddy, Registrar, of JNTUH Prof. M. Manjur Hussain and Rector of JNTUH Prof. A. Goverdhan. They have given awareness on Narcotic drugs and its effects in students. This program was grand success with the presence of 1500 students and several staff from different colleges, out of which 25 NSS Volunteers and 10 staff were attended from GNITS.

Fig.9.7.18 **Awareness Programme on Narcotic Drugs with adverse effects**

NATIONAL SERVICE SCHEME ACTIVITIES (2021-2022)

TOTAL NUMBER OF VOLUNTEERS: II/IV B.TECH-100 VOLUNTEERS

NSS ACTIVITIES

- Blood Donation Camp by Red Cross
- Free Medical Camp by Vijaya Diagnostics
- Haritha Haram at GNITS

- Free Distribution of Beds and Pillows for Needy people

Blood Donation Camp

As a part of Silver Jubilee Year GNITS NSS was conducted Blood Donation Camp on 07th April 2022 at GNITS in collaboration with Red Cross Society, Vidyanagar, Hyderabad. 50 volunteers participated in the camp. The camp was successful with 68 Donors including staff and students. In this regard, college Chairman Shri. P Subba Reddy garu, Principal Dr. K. Ramesh Reddy, appreciated students with their social responsibility.

Fig.9.7.19. **Blood Donation Camp**

Free Medical Camp

As a part of Silver Jubilee Year GNITS NSS was organized at GNITS on 8th April, 2022, in association with Vijaya Diagnostics, Hyderabad. For this free Medial Camp, there were 138 faculty have taken free Medical checkups. In this regard, Principal of the college Dr. K. Ramesh Reddy has appreciated the faculty for their active involvement in camp

Fig.9.7.20. Free Medical Camp

Haritha Haram at GNITS

As a part of Silver Jubilee Year GNITS NSS was organized a Haritha Haram programme on 18th April, 2022 at GNITS. In this progaramme we have taken initiative to plant 150 saplings at different places of GNITS. For this Haritha Haram programme Chief guest was Dr. S. Shobha Rani, NSS Programme Coordinator, JNTUH. In this regard, around 150 members participated in the event including Chairman Shri P. Subba Reddy and Principal Dr. K. Ramesh Reddy and made it a grand success.

Fig.9.7.21 Haritha Haram at GNITS

Distribution of Beds to Needy people

As a part of NSS activities in GNITS, we have distributed 48 beds and 50 pillows to the poor and needy people in good condition to Emmanuel Children home society, Plot No. 81 & 82 Tharamathipet village, Abdullapurmet Mandal, Telangana state. In this regard, Principal Dr. K. Ramesh Reddy, NSS Programme Officer Dr. NVSL Narasimham and Medical Cell Coordinator Mr. Rammohan Reddy were participated and made it success.

Fig.9.7.22 Distribution of Beds to Needy people

NATIONAL SERVICE SCHEME ACTIVITIES (2020-2021)

TOTAL NUMBER OF VOLUNTEERS: I/IV B.TECH-100 VOLUNTEERS

NSS ACTIVITIES

- Serving Food for Needy People at ESIC Hospital (Sanath nagar) in Pandemic
- Haritha Haram (Conducted after Lockdown)

Serving Food for Needy People at ESIC Hospital (Sanath nagar) in Pandemic

As a part of NSS activity, G. Narayanamma Institute of Technology and Science (For women) has organized 2 Day Program "**Serving Food for Needy People at ESIC Hospital (Sanath nagar) in Pandemic"** on 18th and 19th of August 2021. In this connection on two days **250** Food packets were distributed for needy people.

Fig .9.7.23 Haritha Haram (After Lockdown)

As a part of NSS activities in GNITs we have organized a "**Harith Haram"** program on **16th July, 2021**. In this program we have taken the initiative to plant **100 Saplings,** 50 members participated in the event including Chairman Sri. P. Subba Reddy and Principal and Dr. K. Ramesh Reddy and made it a grand success.

C.Annual Student Activities (4)

Professional Bodies Chapters IEEE,IETE,IEEE

Table 9.7.13 IEEE Activities conducted for Academic Year 2023-2024

S No.	Date	Technical Events	No. of Participants
1	20-12-23	PELS Distinguished Lecture	40
2	02-12-23	ECOSHE Summit	144
3	24-11-23	PES Global Workshop	10
4	19-11-23	Humanitarian Activity	5
5	19-10-23	IEEE Day Celebrations	190
6	25-09-23	IES Industrial Visit	9
7	25-09-23	Latest Trends in Battery Energy Storage Systems	115
8	15-09-23	AI and Human Intelligence	142
9	08-09-23	Guest Lecture	72
10	17-08-23	IEEE Excom Meeting	10
11	10-08-23	IEEE Membership benefits Alumnae talk	42
12	08-08-23	IEEE Excom Meeting	12
13	14-07-23	IEEE Exceom Meeting	9
14	16-06-23	Workshop_Electric Vehicles for E-Mobility	68

Table 9.7.14 IEEE Activities conducted for Academic Year 2022-2023

S No.	Date	Technical Events	No. of Participants
1	16-06-2023	VIDYOUTH '23 1. Poster presentation 2. Olympiad 3. Paper presentation	 24 152 24
2	3-12-2022	Opportunities on being IEEE Member & present Industry requirements	480
3	12-11-2022	A`MPHITECH (1. Web Speed, 2.Techdiz, 3. Tech Artistry, 4. Techflyer, 5. Physhhot)	21
4		A Plug and Play Operational Approach for implementation of an Autonomous- Micro-Grid Systems	224

Table 9.7.15 IEEE Activities conducted for Academic Year 2021-2022

S No.	Date	Technical Events	No. of Participants
1	06-04-2022	Web Applications Security Project (OWASP)	109
2	15-03-2022	STAR Program	15 Excom members
3	01-12-2021	United Federal	40Members
4	26-09-2021	Digital Wellness	Collaboration event 67
5	10-07-2021	GATEWAY- An ultimate guideline to crack gate	74
6	03-07-2021	Node MCU Workshop	Collaboration event 126

Table 9.7.16 IEEE Activities conducted for Academic Year 2020-2021

S.No.	Date	Technical Events	No. of Participants
1.	6/10/2020	IEEE day celebrations	34
2.	6/10/2020	Coding quiz	60
3.	23/01/2021	5 THINGS I WISH I KNEW WHEN I WAS 21	80
4.	21/03/2021	IEEE SB GNITS Orientation-Membership Drive	50
5.	21/04/2021	WeCode	175

Computer Society of India

About CSI

Computer Society of India formed in 1965, the CSI has been instrumental in guiding the Indian IT industry down the right path since its formative years. Today, the CSI has 73 chapters all over India, over 500 student branches, and more than 100000 members including India's most famous IT industry leaders, brilliant scientists and dedicated academicians.

The mission of the CSI is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community. The CSI is also working closely with other industry associations, government bodies and academia to ensure that the benefits of IT advancement ultimately percolate down to every single citizen of India.

Table 9.7.**17 CSI Activities conducted for Academic Year** 2023-2024

S No	Name of the capability enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)	Organized at Institute/ State/ National
1	Drone Workshop	08/05/2023 to 10/05/2023	123	EDUQUIS TECHNOLOGY LLP	Institute
2	One day Boot camp on Big data Analytics	28-04-2023	62	Tech Mahindra,Data Scientist, Mr.P.Mohan	Institute
3	Exciting Career Opportunities after Engineering.	13-04-2023	90	EducateNXT, Gopinath Purala, Head-Institutional Alliances, Phone No: 7794931347	Institute
4	Bootcamp on Cyber Security	24/03/2023 to 25/03/2023	86	Indian Servers Pvt.Ltd, Mr. Dhamaraju Sai Satish, CEO, Indian Servers, Phone No: 9618222220	Institute
5	Bootcamp on Augmented Reality	3/01/2023 to 4/01/2023	89	Deep Loops Pvt.LtdMr.Surya Tej, Phone No:8143418505	Institute
6	Session on "Data Science in Organizations-Practical Considerations	17-09-2022	106	Ms.Amulya Sree, Senior Analyst,HSBC, Phone No:9966689216	Institute
7	Workshop on "Amazon Web Services"	22/08/2022 to 27/08/2022	40	Mr. Ganesh Nag Doddi, CEO, Brain O Vision Solutions Pvt. Ltd, Phone No:9502935039	Institute

Table 9.7.18 CSI Activities conducted for Academic Year 2021-22

S No	Name of the capability enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)	Organized at Institute/State/ National
1	Guest Lecture on Predictive Data Analytics	02-06-2022	24	Dr.S.Ravi Kumar Raju, Indo-French center for Promotion of Advanced Research Phone:996662344	Institute
2	Demo session on Virtual reality	11-04-2022	58	Ms.Anupama, Cymax Infotainment Pvt.Ltd.Phone: 9159421657	Institute
3	A Handson session on AWS Introduction	20-11-2021	47	Mr. Anil Kumar Kasukarthi, AWS Specialist, Leo Force A.I. Inc Phone: 8978833992	Institute
4	Guest Lecture on Introduction to Machine Learning	13-11-2021	296	Mr. Dileep Kumar, Data Science Architect at Intrinsic Science Lab Phone: 8978833992	Institute
5	A Session on Research Innovation and Incubation	16-09-2021	70	Mr. Suresh Kadari, CEO, Cedura Testsol PVT LTD. Phone: 7093600949	Institute
6	Value added course on MERN stack Application Developmenmt	23-03-2022 to 06-04-2022	70	Mrs.Sruthi Vaja, Braian O Vision	Institute
7	Coding Contest (Hackathon)	28-10-2021	40	CSE Department GNITS	Institute
8	Online one-week International workshop on Java Programming and Android Applications	20-09-2021 to 25-09-2021	101	Mr. Prashanth and Mr. Madhukumar, Industry Expert,Brain O Vision PVT LTD Phone:9502935039	International

Table 9.7.**19** CSI Activities conducted for Academic Year 2020-21:

S No	Name of the capability enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)	Organized at Institute/State/National
1	Online workshop on Web Appliction using FLASK	24-07-2021	66	Mr. Srinivas Battula, Sr Software Engineer, Wipro.Phine: 040-61427999	Institute
2	Online workshop on Web development using Django	17-07-2021	63	Mr. Bala Maheshwar Dundigalla, Brain O Vision Solutions PVT LTD Phone:9502935039	Institute
3	Online one-week National Level Workshop on React JS .	05-07-2021 to 10-07-2021	67	Mr. Ganesh Nag Doddi, CEO, Brain O Vision Solutions PVT LTD Phone:9502935039	National
4	Online webinar on Information Security Awareness Training	06-04-2021	103	Mr. Velichiti Krishna Chaithanya, Sr Information Security Consultant.Phone: 9000810043	Institute
5	Workshop on Docker-Empowering Development (Hackathon)	09-01-2021	110	Mr. Dr Dileep Ramesh Kumar, CEO, Intrinsic Science Lab, Mr. Srinivas Swaroop.Phone: 8978833992	Institute

ISTE Student Chapter

ISTE Student Chapter of G. Narayanamma Institute of Technology & Science, Shaikpet, is re-established in the academic year 2002 to make the student community to actively participate in ISTE activities to provide a common platform for students to exhibit their talent which helps their career development.

On behalf of GNITS Dr. K. Ramesh Reddy, Principal and Chindam Hari Prasad, ISTE Students Chapter Secretary collected Best ***ISTE Students Chapter*** for the academic year 2018-19 at 49th ISTE National Annual Faculty Convention in 29th -30th November 2019 venue Siksha O Anusandhan Campus Bhubaneshwar, Orissa.

Every academic year under ISTE Students Chapter ***Engineer`s Day*** is celebrated every year on 15th September by giving away ***Young Promising Engineer Award*** to one student from each department who have excelled in Academics, Extracurricular & Cocurricular activities with their all-round performances.

Table 9.7.**20 ISTE Activities conducted for three Academic Years**

S.No	Academic Year	Technical Events	
1	2022-23	Paper Presentation	Young Promising Engineer (Cash Prize of Rs 2500/-)
		Poster Presentation	
		Project Expo	
		Coding Hackathon	
		Tecathon	
		Techvistra	

		TECH-WHIZ	
2	2021-22	Paper Presentation	Young Promising Engineer (Cash Prize of Rs 2500/-)
		Poster Presentation	
		Project Expo	
		Coding Hackathon	
		Tecathon	
		Techvistra	
		TECH-WHIZ	
		Escape Rooms	
		Criss Cross Words	
		Quizzie Buzzi	
		Hackathon	
		Jest terrain	
3	2019-20	Paper Presentation	Young Promising Engineer (Cash Prize of Rs 2500/-)
		Poster Presentation	
		Project Expo	
		Hackathon	
		Robotron (Battle Bots &Line Follower)	
		Technobuzz	
		Escape Rooms	
		Manetronics	
		Voltrix	
		Techtoast	

Young Engineer Award Evaluation

We have issued a circular for the IV B. Tech students like, in view of the 55th Engineer's Day celebrations on 15th September, 2022 all the interested final year ECE students are requested to take and submit the application form for claiming "Young Engineer Award" 2022, on or before 29-08-2022, 01:00PM.

Table 9.7.**21 Young Engineering Award** criteria

The following is the criteria for selecting the awardee:	
	Weightage
1. Academic performance	50%
2. Innovative Attributes / Development exhibited by the candidate	10%
3. Design Capabilities	10%
4. Regularity and Seriousness to the classes / sessions / labs	10%
5. Co-curricular activities including Paper Presentations / Seminars / Awards / Prizes received	10%
6. Extra- Curricular activities, if any	10%
Total	100%

We have received nine applications for the evaluation, out of nine, Mounika Pamarti (19251A0496) got selected for young engineer award for the academic year 2022-23

Table 9.7.22.List of selected students for young engineer award

S.No.	Academic Year	Roll Number	Name of the Student
1	2018-19	15251A0423	Dasari Harini
2	2019-20	16251A04F8	P. Amulya
3	2021-22	18251A04G3	Kalyani Jahnavi
4	2022-23	19251A0496	P. Mounika
5	2023-24	20251A0477	M. Tanusha

IETE ISF student's committee-GNITS

- The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT. Founded in 1953.
- The IETE Student Chapter of G. Narayanamma Institute of Technology & Science, Shaikpet, was established in the academic year 2003 with the aim of encouraging active participation in IETE activities and enhancing students' technical and communication skills to facilitate their career development.
- It organize different technical events every year through our IETE student chapter. These include things like quizzes, coding puzzles, presentations, guest talks, workshops, contests, project expos, treasure hunts, industrial visits, and mock interviews.
- Bagged consecutively 3 times IETE ISF Awards given by IETE Hyderabad centre (over all Telangana and AP) –

2021 year- 2nd Best ISF Faculty Coordinator Award

2022 year- Best IETE –ISF college Award

2023 year- 2nd Best IETE –ISF college Award.


Fig.9.7.24 Receiving Best IETE ISF college Award 2022 at IETE Hyderabad centre

Fig.9.7.25 2nd Best IETE-ISF coordinator Award 2021

Table 9.7.23 IETE-ISF Events summary of the academic year 2022-23

S.No	Date	Name of the Event	Total no. participants
1	18/10/2022	Technical Quiz	168
2	9/12/2022	Tech Codopuzz	50
3	09/02/2023	Seminar on Engineering applications with Embedded systems	208
4	18/03/2023 & 27/03/2023	Industrial visit to ATC AAI SHAMSHABAD	43 53
5	29/03/2023	Industrial visit to NRSC	106
6	20/04/2023	Industrial visit to Kwality Photonics Pvt.Ltd	51
7	21/4/2023	Technical Treasure Hunt	22

Table 9.7.24 IETE-ISF Events summary of the academic year 2021-22

S.No	Date	Name of the Event	Total no. participants
1	25/09/2021	Techincal Quiz	30
2	30/10/2021	Code Debugging challenge	24
3	04/12/2021	Hardware Design Test	100
4	23/10/2021	Mock Interview	40
5	18/12/2021	Paper Presentation	61
6	05/01/2022, 06/01/2022	Industrial visit to Kwality Photonics	100 105
7	08/04/2022	Poster Presentation	22
8	21/03/2022	Seminar on IoT and Robotics	173

Table 9.7.25 IETE-ISF Events summary of the academic year 2020-21

S.No	Date	Name of the Event	Total no. participants
1	09/01/2021	Virtual Ideathon	22

ECE ASSOCIATION

Under ECE association, various events are organized in the department and college level to make students active and mentally strong. The list of events organized under the ECE association is given in table 9.7.3.

Table 9.7.2**6 events Conducted for the last three academic years**

S.No	Academic Year	Conducted Date	Event	Participants
1.	2021-22	27-11-21	JAM & Aptitude	243
2.		4-12-21	Singing & Dance	20
3.		26-03-22	Nail Art & Best From Waste	25
4.		19-04-22	Hair Style Competition & Sudoku	212
5.	2022-23	21-11-22	Singing &Dance	37
6		10-01-23	Rangoli	40
7.		14-03-23	Aptitude Test	100
8.		28-03-23	Thread Jewellery Making & Standup Comedy	20

Fig.9.7.26 Cultural events organised under ECE Association

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) Total Marks 120.00

10.1 Organization, Governance and Transparency (55) Total Marks 55.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

A. Availability of the Vision and Mission of the Institute (2)

Vision:

To become a center of quality education in Engineering and Technology for women empowerment.

Mission:

To fulfill the academic aspirations of women engineers for enhancing their intellectual capabilities and technical competency.

To Leverage Leading – Edge Technologies and cultivate exemplary work culture.

To facilitate success in their desired career in the field of engineering to build a progressive nation.

The Vision, Mission of the Institute have been adequately disseminated and published

at:

1. Website link : https://www.gnits.ac.in/vision-mission/ (https://www.gnits.ac.in/vision-mission/)
2. Principal Chamber
3. Library
4. All the department
5. Laboratory
6. Student Attendance Registers
7. Syllabus

The Vision, Mission of the Institute have been adequately disseminated and published

at:

1. Website link : https://www.gnits.ac.in/vision-mission/ (https://www.gnits.ac.in/vision-mission/)

Fig: 10.1.1.1 : Availability of Institute Vision Mission in the college website

2. Principal Chamber

Fig: 10.1.1.2 : Availability of Institute Vision Mission in the Principal Chamber

3. Library

Fig: 10.1.1.3 : Availability of Institute Vision Mission in the Library

4. All the department

Fig: 10.1.1.4 : Availability of Institute Vision Mission in the Departments

5. Laboratory

Fig: 10.1.1.5 : Availability of Institute Vision Mission in the Laboratory

6. Student Attendance Registers

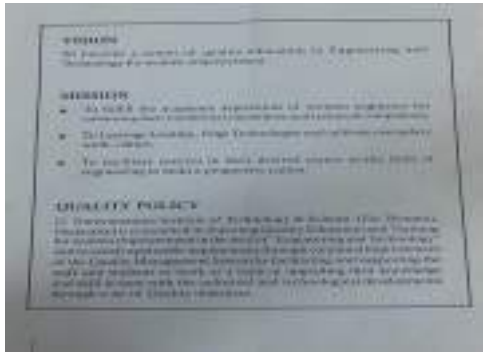

Fig: 10.1.1.6 : Availability of Institute Vision Mission in the Student attendance registers

7. Syllabus Books

Fig: 10.1.1.7 : Availability of Institute Vision Mission in the Syllabus books

B. Appropriateness/Relevance of the Statements (3)

VISION	M1 To fulfill the **academic aspirations** of women engineers for enhancing their **intellectual capabilities** and **technical competency**	M2 To Leverage Leading – Edge Technologies and cultivate exemplary work culture.	M3 To facilitate **success in their desired career** in the **field of engineering** to build a **progressive nation**
Center of Quality Education	• Academic Aspirations • Intellectual Capabilities	• Leading – Edge Technologies • Exemplary Work Culture	• Field of Engineering • Progressive Nation
Engineering and Technology	• Academic Aspirations • Intellectual Capabilities • Technical Competency	• Leading – Edge Technologies	• Field of Engineering • Success in Desired Career
Women Empowerment	• Academic Aspirations • Intellectual Capabilities • Technical Competency	• Leading – Edge Technologies • Exemplary Work Culture	• Success in Desired Career • Progressive Nation

Correlation	**2/3+3/3+3/3** **= 2.67**	**2/2+1/2+2/2** **= 2.52**	**2/2+2/2+2/2** **=3**

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25) Institute Marks : 25.00

a) Availability of a 5 year Strategic Plan:

G.Narayanamma Institute of Technology & Science, "**a leading Engineering college in Hyderabad for women**, "was founded by late Sri G.Pulla Reddy garu in 1997, with an objective of providing excellent learning facilities for women to pursue education in Engineering since two decades. The aim is to promote Technical Education among women to enhance and build-up a new generation of thinkers, innovators and planners in the realms of Science and Technology. GNITS, a **Top Women's Engineering College in Hyderabad** received UGC autonomous status for 10 years from 2018 and is affiliated to Jawaharlal Nehru Technological University (JNTU-H), Hyderabad. It is approved by All India Council for Technical Education (AICTE), accredited by NAAC & NBA (AICTE) and ISO 9001:2015 Certified Institution.

Availability of Strategic Plan in Institutional website: https://www.gnits.ac.in/strategic-plan/ (https://www.gnits.ac.in/strategic-plan/)

Objective 1: Governance and Decentralisation

Strategies:

- Faculty retention with Career Advancement Schemes.
- Enhancing educational opportunities and outcomes through comprehensive support and resources for student success.
- Promote sustainability through the adoption of renewable energy, energy efficiency measures and eco-friendly practices.
- Financial support to the faculty for attending workshops ,International Conferences, Professional Memberships ,Patent Filing etc.

Metrics/KPIs:

- No. of faculty promoted under CAS.
- School adoption and activities conducted.
- No. of faculty receiving financial support.
- Energy generated by use of solar panels.

Objective 2: Provide an excellent environment for enabling education, research, and innovation with improved space utilization.

Strategies

- To build new buildings for the academic purpose.
- Construct an Auditorium/Seminar Halls/Conference Halls with different capacities.
- Establish an Audio Visual Centre /Recording Centre with latest tools.
- Equip more than 50 % of classrooms and laboratories with Smart Boards.
- Upgrade the Internet speed from 500 Mbps to 1000 Mbps.
- Increase the subscription for online journals and databases.

Metrics/KPIs

- No. of new buildings constructed.
- Auditorium/Seminar Halls and its capacity
- No. of classrooms and Labs equipped with smart boards and Lecture Capturing System.
- Speed of Internet.
- No. of subscriptions for online journals and books.

Objective 3: To innovate and adopt technology enabled pedagogy.

Strategies:

- Use of blended teaching methodology involving traditional, interactive, and ICT enabled pedagogical techniques.
- Enhance the number of Courses focusing on Skill development and Employability.
- Introduce Interdisciplinary courses as Open electives.
- Introduce Courses focusing on Cross Cutting Issues.
- Encourage the students to complete Value Added/Certification Courses.

Metrics/KPIs :

- .Percentage of faculty using ICT enabled pedagogical techniques.
- Percentage of Courses focusing on Skill development.
- Percentage of Courses focusing on Employability.
- Percentage of Courses focusing on Cross Cutting Issues.
- No. of students completed Value added Courses/Certification Courses.

Objective 4: To create awareness and opportunities in Research, Innovation and Development among the faculty and students and generate innovative ideas and solutions to the academic, research and societal problems.

Strategies:

- Increase the number of Doctorates.
- Increase the number of research publications in reputed journals, conferences, books, and book chapters.
- Increase the funding of research projects from government agencies such as DST, SERB, DSIR etc.,
- Establish a minimum of two Memorandum of Understanding (MOUs) with reputed Institutions and expand the range of activities under each MOU annually.
- Provide seed money grants worth five lakhs for each department to support faculty research.
- Provide support for patent writing and publication.
- Organize an international conference at least once every year

Metrics/KPIs

- Number of Doctorates.
- Number of research publications in reputed journals
- Number of conferences, books, and book chapters.
- No. of Funding research projects from government agencies such as DST, SERB, DSIR etc.,
- Number of Memorandum of Understanding (MOUs) with reputed Institutions and expand the range of activities under each MOU annually.
- Seed money grants to support faculty research.
- No. of patents published/granted
- National/ International conference at least once every year

Objective 5: Enhancing Quality of student placements in terms of both numbers and companies and median salary.

Strategies:

- Organize department-specific value-added programs at least twice a year.
- Increase the number of companies participating in placement drives by at least 5% and raise the median salary by 5% compared to the previous year.
- Increase the student enrollment for in campus training provided for students in GRE, Civil Services and GATE.
- Increase the number of recruiters for hiring.

Metrics/KPIs

- No of training programs for placements and CGC.
- No. of Students placed
- No. of companies Visited
- Highest Salary
- Average Salary.

Objective 6: To implement targeted outreach campaigns to engage alumni, highlighting the impact of their contributions on the institutes growth and student success

Strategies:

- To maintain the Alumnae Database.
- Conduction of Alumnae Meet/Chapters at different locations based on Alumnae strength.
- Increase the Alumnae financial contributions every year by 5%.
- Identifying distinguished Alumnae branch wise and facilitating them as mentors to guide the Students for Internships, Project Work and Career Guidance.
- Impart industry ready skills to students through alumnae interactions.

Metrics/KPIs

- Number of courses/workshops/networking events conducted by alumnae per year.
- Number of Alumnae Chapters.
- Alumnae financial Contributions.

CASE STUDY ON PLACEMENTS

GNITS provides excellent training and placement facilities, leading to improvements in placement statistics such as the highest package, average salary, and median salary. Recruiters such as Microsoft, PayPal, Service Now, Twilo, Salesforce, Adobe, Micron, Visa, JP Morgan Chase, and Amazon are actively involved in the placement process.

For the academic year 2023-2024, there have been significant improvements in placement statistics compared to the academic year 2022-2023:

- The highest pay package has increased by 10%.
- The average salary has improved by 12%.
- The median salary is being maintained with a possibility of improvement as the current academic year progresses.

Fig: 10.1.2.1 Highest Package in Placements

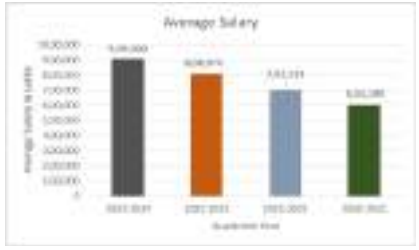

Fig: 10.1.2.2 Average Salary in Placements

10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

10.1.3. Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

A. List the Governing Body Composition and its Sub Committees, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4)

The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

The institute has 4 Academic and Administrative Bodies and 35 committees/cells to ensure proper management of academic, financial and general administrative affairs as per the norms prescribed by AICTE and UGC. The roles and responsibilities of each committee are described in Table 10.1.3. The list of committees and its constitution is given from Tables 10.1.3.1 to 10.1.3.39

Table 10.1.3 Description of Committees

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
1	Governing Council	Uphold college vision and mission, ensuring both academic and administrative autonomy. Governing Council decides on all policies, overseeing academics, HR, finance, and more. Approve curricula and new study programs. Award scholarships and ensure financial management. Thoroughly discuss matters of Academic and Finance Committees. Manage physical resources for academic excellence. Ensure regulatory compliance in all decisions. Ratify minutes of key meetings. Pursue accreditations from regulatory bodies. Oversee non-statutory committees and funding applications.	Yearly Once
2	Academic Council	• Enhance academic affairs. • Guide instructional methods and assessment. • Address academic concerns effectively. • Approve proposals from the Board of Studies. • Introduce industry-aligned courses. • Prescribe study programs. • Develop admission regulations. • Formulate examination guidelines. • Maintain examination standards. • Establish sports and extracurricular guidelines. • Foster research activities. • Coordinate inter-departmental collaboration. • Ratify Board of Studies meeting minutes.	Yearly once
3	Finance Committee	• Act as an advisory body to the Governing Body • Budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy • Audited accounts for the above	Thrice in a year
4	Boards of Studies	• Approve COs, POs, PSOs, and PEOs for department programs. • Design syllabi aligned with departmental objectives. • Prepare contemporary syllabi based on industry needs. • Approve curriculum and structure for department programs. • Advise innovative teaching and evaluation methods. • Recommend examiners to the Academic Council. • Coordinate research, teaching, and consultancy. • Recommend new courses and improvements in teaching, training, and research standards.	Whenever required
5	College Academic Committee	• Formulate academic rules and regulations. • Approve the curriculum. • To review and evolve suitable academic procedures and upgrade the existing procedures for consistent and smooth academic functioning of the institute.	As and when required
6	Library Committee	Functions • The Library committee monitors the procurement of books, Journals and the allocation of the budget according to the recommendation of the heads of the departments. • To supervise the allocation and utilization of funds for different departments for the purchase of books and journals for the Central and Departmental libraries. • Advises and reviews library policies for instruction, resources, services, and the facility. • Advises regarding library services, especially innovation, for the campus community. • Discusses budgetary issues for books, journals, databases, media, etc. • To maintain liaison between Central Library and various Academic Departments for the purchase of networking of Departmental libraries with the Central Library.	Twice A Year
7	Anti-Ragging Committee	Function I: Basic measures • Constitution of AR committee • AR warning brochure and e booklet • Display banners: • Update website-contact details of nodal officer • Student affidavits. • Installation of CCTV cameras Function II: Counselling and monitoring • Regular interaction and counseling • Surprise inspection at hostels, canteens, toilets, bus stands etc. Function III: Creating Dissemination of the idea of ragging free campus • Anti ragging workshops: One awareness program conducted during AY 2122 • Safety and security apps. Function IV: UGC initiated measures. • Help line 1800-180-5522 • AR website : www.antiragging .in • AR competitions for students/staff/general public for the wider awareness of the menace of ragging. • TVCs:	2 to 3 meetings per year
8	Grievance Redressal Committee (Students)	Roles and Responsibilities: • Processing all individual complaints and taking suitable action as per college norms. • Forming/reviewing guidelines/policies for grievance redressal as required, in accordance with AICTE regulations. • Conducting meetings as necessary to discuss relevant issues, in consultation with the Principal. • Creating organization-wide awareness among stakeholders through awareness programs and displaying grievance registration mechanisms on the website and posters in prominent campus locations.	As and when required

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
9	Grievance Redressal Committee (Students)	• To formulate the policy to investigate and review grievances of staff • To investigate the causes of the grievances. • To ensure effectual solution depending upon the gravity of the grievance. • To take necessary action and implement them by the committee	As and when required
10	Examination/ Results Review Committee	Functions: • Conduct Internal and External Semester End Examinations of both B.Tech and M.Tech. • Conduct Central and State Government Service Exams such as UPSC, RRB, TS GENCO, TS TRANSCO, TSPSC, Police Recruitment etc. • Any Circular, Guidelines, Office Order, Notification received from the Chief Controller of Examinations (Principal) / Controller of Examinations are processed in the cell. • To work according to the guidelines of Controller of Examinations regarding distribution of Examination Forms, Fee Collections, issue of Hall Tickets, Transcripts etc. • Release of Academic Calendars, Preparation of Mid Examination and Semester End Examination Time Tables and send it to all the departments for smooth conduction of class work and examinations. • The Examination Cell shall prepare seating plan, arrangement of halls and requirement of Invigilators for the Semester End Examinations (SEE) and display them on the respective Notice Board/Website and Blocks. • Stationary pertaining to the Examinations such as answer sheets, drawing sheets, graph paper, trays, threads, water jugs etc. are made available. • The Exam Cell shall ensure that if any student caught during the exam by copying or chit or minor Xerox copies, then that case will be booked under malpractice, the same will be communicated to Principal through Controller of Examinations along with proofs. • The Examination Cell has procured sophisticated infrastructure to evaluate the student answer scripts. • All the results of both B.Tech and M.Tech (First Year to Final Year) shall be displayed on the respective student Notice Boards/College Website. A copy of the same shall be sent to the respective HODs. • Under the guidance of the Controller of Examinations, the Exam Cell shall analyze the exam results and the same shall be verified by the respective HODs. After due verification, copies of the result analysis shall be sent to HODs and the Principal.	Twice in a Year
11.	Research Advisory Committee	Functions: • To create advanced laboratory facilities and inculcate research interest among the students and faculty, together help the advanced technological development to meet the societal needs • To enhance the industry – institute relationship and aid the better product development in quality at reduced cost. • To pave the way for the utilisation of new corners of science to invent new or alternate technology and healthy solutions to the society at large, particularly to protect the public health and environment. • To facilitate and encourage the quality publications of the research work and share the results to the entire research community. • To build relationships through of MOUs for long term relationships with national and international research organisations and industries for widening the scope of research options and funding opportunities for faculty and students. • To develop, prescribe and administer rules and regulations to ensure the compliance of all researchers to the research quality assurance framework and the research code.	Twice in a Year
12.	NSS Committee	Functions: • The main objective of National Service Scheme is personality development through social service or community service. • The students have to understand themselves their relation to the community • Identify the needs and problems of the community and involve them • Developing social and civic responsibility • Improving leadership quality • Practice National integration • Developing the social harmony skills • This program aims at inculcating social welfare thoughts among the students by providing service to the society without any prejudice.	Twice in a Year
13.	Industry Institute Interaction / Partnership / Placement Committee	Functions: • Design & organize training programs to the students on strategically relevant competencies along with academics to make them industry ready. • Provide necessary behavioural inputs through structured programs that our students can take-up & overcome any challenges at work & personal front. • Organize periodical review on effectiveness on the training programs and establish a process for continuous learning. • Organize industry visits , expert sessions to update the knowledge on industrial recent trends. • Provide expertise counselling to every aspirant student to define their career interests. • Organize & Coordinate campus placement program to fulfil the commitment of every aspirant.	Two times for semester
14.	I & I Dept.	• Chairman - The person holds the responsibility of overall monitoring the day to day activity under IIC and AIC GNITS. • Dean- The person holds the responsibility of scheduling the year plan and monitoring the day to day activity under IIC and AIC GNITS. • Convenor - The person holds the responsibility of carrying out the day to day activity under IIC. • YUKTI coordinator(s) (I Cell) - Collection of ideas/ prototype/ startup information from students/ alumni/ faculty/ incubates of all departments within the institute and to verify the submission in Yukti NIR portal and also nominate ideas for national challenges. • Social Media coordinator(s) (EDC) - Publishing/ handling of all the social media related activities and tag the government entities like IIC, MHRD NITI Ayog etc from time to time. • Innovation Activity coordinator(s) - Innovation related activities like organizing ideathons and mentoring students to participate in intercollege ideation competitions. • IPR activity coordinator(s) (IPR Cell) - IPR related activities like mentoring in drafting, publishing and following up till granting of the patents. • Startup activity coordinator(s) (EDC) - dentifying potential startup ideas and curating it towards registration and participation in startup hackathons at incubators. • Design Thinking Coordinators (I Cell) -To immerse students into the world of innovation as a systematic process of tackling relevant business and/or social problems. To support students towards sketching, conceptualizing and developing an innovation in problem solving. • ARIIA coordinator(s) (I Cell) - ARIIA/IIC related activities follow up and updating the information in official websites from time to time. • NISP coordinator(s) (I Cell) - Execution of NISP related activities followup and uploading the information in the official website from time to time. • Member (I Cell, EDC & IPR) -The members are equally responsible and need to support the other coordinators in organizing the events, preparing the reports/minutes of the activities and updating the website and official portals from time to time.	Meet at monthly once
15.	Internal Quality Assurance Cell	Functions: • Development and application of quality benchmarks/parameters for the various academic and administrative activities of the institution. • Dissemination of information on the various quality parameters of higher education. • Organization of workshops, seminars on quality-related themes and promotion of quality circles. • Documentation of the various programs/activities leading to quality improvement. • Acting as a nodal agency of the institution for quality-related activities. • Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to NAAC based on the quality parameters.	Once in a Semester with External Members.
16.	Timetable committee	Functions: The Timetable Committee plays a crucial role in designing, implementing, and managing the academic schedule for students and faculty. The primary functions of the timetable committee include: • Design the academic schedule for each semester by considering the requirements of various departments and programs. • Allocating time slots for lectures, laboratory sessions, tutorials, and other academic activities • Ensuring efficient utilization of available resources such as classrooms, laboratories and faculty members and balancing the workload among faculty members and departments to avoid conflicts and overburdening • Coordinating the scheduling of the elective courses and specialised tracks within the curriculum. • Collaborating with various academic departments to understand their specific needs and constraints. Ensuring that departmental preferences and constraints are taken into account when creating timetables. • Ensure that the academic schedule adhere to college regulations and policies. • Communicate the finalized schedule to all stake holders including staff, students and administrative staff and also providing timely updates and information about change adjustment in the schedule	Thrice in a Year

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
17.	Alumnae Coordination Committee	Functions: • Provide a platform for the alumnae to share their experiences about internships, projects and placements to the present students. • Involve in curriculum development and taking feedback on institutional facilities for the betterment of students. • Take the valuable advices from the Alumnae for enlightening the present student's career. • Conduction of alumnae meets. • Extend opportunities to the college in the internships and placements in reputed organizations. • Invite the Alumnae in good professional position for guest lecturers, seminars, workshops. • Institute awards for the Alumnae for their contribution to the College and the Society. • Acquire the information of the distinguished alumnae, to enrich alumnae-student relations that help present students to become more aware and get inspired by their achievements. Roles and Responsibilities of the committee members Coordinator: • To maintain the Alumnae Database. • To organize the alumnae meet every year in our college premises. • To suggest the committee members in designing the web page for Alumnae Committee. • To establish the network every year with alumnae. • To form student coordinators from each department. • To collect the feedback forms, survey forms and valuable suggestions from the alumnae.	Once in every 4 months
18.	Website committee	Functions: • To update information in all its forms in GNITS. • To display banners and posters about various events at department level as well as college level. • To provide required guidance for the needy students. • To provide latest news and updates.	Yearly once
19.	Games and Sports Committee	• To develop and maintain the sports infrastructure/ facilities. • To procure required sports and fitness equipment. • To prepare and monitor the sports teams for different inter college/ inter university/ state/ national level tournaments. • To create awareness about the importance of physical activity/ sports and motivating students towards the physical activity/ sports. • To organize intra-college and intra college competitions at the college and encourage the students to participate actively in organizing and conducting various indoor and outdoor sports and games in the college. • To maintain records of sports and games events attended by students within the college, within the university and outside at the region/state /national level and their achievements/ awards. • To submit annual report on the sports/ events and budget allocations & spent during the year.	Yearly Twice/Thrice as per the requirement
20.	Arts and Cultural Committee	Function: Providing the right platform to students to showcase and hone their talents in various fields like dancing, acting, singing, mime, mimicry etc. Roles and responsibilities of the convenor: • To identify the students both trained and interested in arts and cultural activities from among the students. • To create a student body with the student representatives. • To create a calendar of events focusing on different arts and cultural events. Roles and responsibilities of Faculty members: • To help in identifying the student representatives. • And in organising events and competitions. Roles and responsibilities of the students: • To help the convenor in identifying the talent. • Helping in identifying the events. • Helping in organising and coordinating the events.	Twice in a year
21.	Career Guidance Cell	• Event Organization: Plan and execute seminars, workshops, and guest lectures to expose students to diverse career opportunities. • Information Dissemination: Keep students informed about competitive examinations, eligibility criteria, and application procedures. • Promoting Career Fair Attendance: Encourage and guide students to participate in career fairs to explore industry opportunities.	Once for every semester
22	Indian Society for Technical Education (ISTE)	• Professional Development: Offering workshops, seminars, and certifications to enhance technical skills. • Networking Opportunities: Connecting students with professionals and industry experts through conferences. • Exposure to Industry Trends: Providing insights into current industry practices through guest lectures and industrial visits. • Competitions and Events: Encouraging innovation and excellence through technical competitions. • Leadership and Soft Skills: Offering leadership opportunities and promoting teamwork. • Continuous Learning: Keeping students updated on the latest developments in their field through publications.	4 to 5 per year
23	IEEE Student Branch	• IEEE SB Mentor will plan regarding future events and also take financial decisions. • IEEE SB Coordinator, IEEE SB Counsellor, Student Chair, Secretary will plan and decide on the events for the academic year and also contact for the right resource persons. • IEEE SB Coordinator, IEEE SB Counsellor, Student Chair, Secretary will plan for events related to IEEE membership. • IEEE Coordinator, IEEE SB Counsellor will call for the IEEE SB GNITS Administrative meeting, and do website updation. • IEEE Coordinator & IEEE SB Counsellor, will send the circular of the events to all the departments, intended to reach students. • IEEE SB Counsellor with plan to execute the events with the help of department faculty co-ordinators. • Chair/Vice chair/Secretary will draft the meetings of the meeting. Also the tools notice and reporting will be done. • Each of the department faculty coordinators will be incharge to executive the event and do the documentation of the event.	2 meetings per semester
24	CSI	• To provide a platform for networking, skill development, and ethical practices, while promoting continuous learning and contributing to the societal impact of information technology. • To organize workshops and guest lectures	1 meeting per semester
25.	IETE Student Forum	Responsibilities: • Promoting Technical Awareness: Raise awareness and interest among students in the field of electronics and telecommunication through technical sessions, workshops, and seminars. • Enhancing Skills: Provide a platform for students to enhance their technical skills, including hands-on experience with the latest technologies and tools. • Encouraging project development: students are encouraging to participate in project Expos, hackathons, and competitions to explore new ideas. • Facilitating Networking: Create opportunities for students to connect with professionals, experts, and peers in the industry, promoting networking and collaboration. • Career Development: Offer resources and guidance to help students with career planning through mock interviews and skill development programs. • Soft Skills Development: Coding challenge, workshops and activities to improve communication skill, teamwork, leadership, and other soft skills essential for professional success.	Yearly once
26.	Canteen Committee	Functions • To supervise, take steps for the maintenance of canteen facilities with hygiene. • To maintain and control the quality of the food supplied in the canteen. • To modernize the canteen equipment and cooking procedures.	2 per year

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
27.	College Magazine Committee	• Convenor sends circulars, conducts meetings, collects the information for the newsletter from the various departments of the college and sends to the printing press after editing & proof-reading the information. Convenor also visits the press to attend to the work such as style, indentation, grammar check and final look of the newsletter. • The Chief Editor too assists in giving the supplementary and necessary information, photographs etc. for the newsletter. • The faculty committee members of the various departments collect the information of the respective departments in the prescribed format/template and hand it over to the convenor. • The student committee members collect the student information of the respective branches and hand it over to the concerned faculty committee member.	Twice a year
28.	NPTEL &FDP	NPTEL Roles and Responsibilities • The Role of NPTEL Local Chapter is to act as a local link between students/faculty in the institution and SWAYAM-NPTEL. • Inculcate mode of self-learning and get access to lectures of IIT/IISc. • Promote NPTEL certification courses in the college • Help students/faculty enrol to courses • Identify Mentors amongst the faculty and adding Mentor. • Request for Exam City, Fee, waiver. • Accessing the Exam Results and Distributing e-certificates for Faculty and Students. • Arranging Orientation classes for students to create Awareness on NPTEL online courses FDP Roles and Responsibilities The main responsibility of this cell is • To organize various faculty development programmes and training programmes in different fields. • To identify the resource persons based on the relevance of area of training. • To arrange training courses based on the interest of the faculty to update their knowledge with the current scenario in any particular stream. The knowledge gained by the faculty will be implemented in their future endeavours. • To help the faculty to adapt with present outcome based education and improve their teaching strategies to accomplish their duties with effective time management skills. • To train the faculty members in different verticals like life skills, time management, stress management, professional development, latest technologies, knowledge enhancement, industrial requirement and societal needs. • To meet the present curriculum which is student's centric, more preference is focused on outcome based pedagogic trainings. This will help to achieve self-development of faculty, department, enhance placement opportunities to students and contribute to institutional growth to meet present industrial requirement	Twice in a month
29.	Purchase Committee	Functions: • Identifying The Procurement Needs Of The College, Including Equipment, Supplies, And Services Required For Various Departments Or Projects. • Collaborates With Relevant Stakeholders To Determine The Budget Allocated For Procurement Activities And Ensures That Purchases Are Within The Approved Financial Limits. • Researches And Evaluate Potential Vendors, Considering Factors Such As Quality, Reliability, Pricing, And Delivery Capabilities. They May Also Maintain A List Of Approved Vendors. • Prepares And Issue Request For Quotations To Vendors, Clearly Specifying The Required Products Or Services, Quantities, Delivery Timelines, And Any Other Relevant Terms. • Reviews And Compare The Received Bids Or Quotations From Vendors, Assessing Factors Like Compliance With Specifications, Pricing, Warranty, And After-Sales Support. • Reviews And Approves Purchase Requests, Ensuring That They Align With The Institute's Procurement Policies And Budgetary Constraints. • Generates And Processes Orders, Documenting The Details Of The Approved Purchases And Communicating Them To The Selected Vendors. • Monitors And Manages The Inventory Of Procured Goods, Ensuring Proper Storage, Distribution, And Tracking To Avoid Excess Stock In The Store. • Ensures That All Procurement Activities Adhere To Legal And Ethical Guidelines, Promoting Transparency, Fairness, And Accountability In The Purchasing Process. • Maintains Relationships With Vendors, Addressing Any Concerns, Resolving Disputes, And Fostering Long-Term Partnerships Based On Mutual Trust And Collaboration Keeping Intrust Of Institute.	Whenever required
30.	Press and Social Media Committee	Objectives: • Enhance GNITS visibility by spotlighting diverse activities and achievements across social media platforms. • Drive student engagement through compelling content that encourages active participation in college events. • Bridge the GNITS community with the external community by sharing interactive and informative content. • Ensure seamless communication of important updates to both internal and external stakeholders via social media. • Uphold GNITS positive brand image by consistently showcasing its strengths and achievements. • Promote college events to attract a broader audience, fostering a positive impact beyond the campus.	2 times per year
31.	Environmental Club	Functions • To ensure the institution environmental friendly/green campus through pollution free initiatives. • To make the adaptable policies to make our institute sustainable campus. • Bridging the gap between institution and government, NGOs, Environmental field experts etc. by establishing networking with them. • Pertaining and implementing the UN Sustainable Development Goals (SDGs) in the institute level policies. • Smooth conduction of events of the club by organizing various Observance of Days to protect and Nurture Environment periodically.	Once in 4 (or) 6 months depending on events and activities to be organized/conducted
32.	Hostel Committee	• Acts as a bridge between the administration, caterers, hostel authorities on one side and the students on the other. • Facilitates the grievance redressal of students and communicates the same to the concerned authorities. • Keeps a check on the daily issues regarding the hostel infrastructure, the housekeeping issues, mess facilities, etc. • Ensures an enriching stay at the campus.	Monthly once
33.	Admission Committee	Functions: • Collect the related documents and required fee from the students admitted in the college. • Prepare vacancy position list. • Conduct spot admissions. • Upload admitted candidates' data in the government authorized admissions website. • Prepare final list of students branch wise and section wise with roll numbers.	Yearly once
34.	SC/ST Cell	• The Scheduled Caste (SC) and Scheduled Tribes (ST) Cell is established in the institution to promote the special interests of students in the reserved category. It provides special inputs in areas where the students experience difficulties. The committee members of the Cell counsel and guide SC/ST students to manage the academic and personal issues of campus life effectively. • To ensure provisions of an environment where all such students feel safe and secure. • To provide prompt counselling for any emotional emergencies arising on account of any event at the campus. • To create awareness of the facilities available on campus. • To address the issues of SC/ST students to overcome their inhibitions and concerns. • Skill and Personality Development Centre (SPDC), an AICTE Funded Project established in the year 2019 conducts special classes every week as per the Time table on Soft skills, Communication Skills, Employability Skills, Career guidance, Technical competencies for the SC/ST students. In addition, guest lectures are arranged by the SPDC Centre to educate the students on their career opportunities and the skills they need to build up during their course.	Once in a year
35.	Ethics and Conduct Committee	• The Committee conducts awareness programmes on GNITS CODE OF ETHICS AND CONDUCT to be followed by all the stakeholder – students, staff, faculty and parents. • Any violation of Code of Ethics and Conduct shall be addressed strictly by the concerned authorities to ensure smooth functioning of the academic and administrative works. • Any cases of unethical behaviour by the students/staff observed and brought to the notice of the concerned authorities/committee, strict action against the member shall be taken as stipulated in the GNITS CODE OF ETHICS AND CONDUCT handbook. • The Committee conducts awareness programmes on GNITS CODE OF ETHICS AND CONDUCT to be followed by the entire stakeholder – students, staff, faculty and parents.	Twice in a year
36.	Medical Cell	• To conduct awareness programmes on timely preventive, promotive and curative health services to all the students and staff on the campus • To periodically conduct Medical Camps • The Coordinator has to guide the Medical Committee Student Volunteers to plan, implement and conduct the Committee activities • To undertake regular reviews of Medical Committee activities.	As and when required

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
37.	Student Counselling Committee	• The Counselling Committee ensures availability of Counselling service as and when required to the students and the staff with their concerns. • The Counselling Committee helps students and staff to cope with the fast-paced changes in the stressful modern lifestyle and to correct their concerns on their own through Counselling and Guidance. • The Committee provides assistance to enhance their ability to work on social and emotional development that will impact their productivity in their work life. • Through Counselling the Committee gives a hope that there is a better way, or a way out with problems they can't handle, can't control, or just don't know how to deal with. • Every year two awareness sessions, one each for the first year students during Induction programme and one for the senior students, are conducted besides the regular counselling and guidance provided to the students who approach the Counsellor personally. • At the end of the two sessions, feedback of the participants is collected and analysed to ascertain the impact.	Twice in a year
38.	Student Affairs	• College Annual Day • Inter-Collegiate Technical, • Cultural, Sports fests Women in Leadership Conclave WILC during International Womens' Day Celebrations every year. • Fresher's day and Graduation Day every year. • To assist and coordinate the administration to improve the student amenities to improve their career and personality building. • To encourage innovative and creative talents of the students. • To maintain peace and harmony among campus community in General and student community in particular. • To contribute to the development of college policy.	Once in a Month
39.	Internal Complaints Committee/ Sexual harassment	Functions: • The role of the Committee is to create awareness about sexual harassment and to deal with and recommend punishment for non-consensual acts of sexual harassment, and not to curtail sexual expression within the campus. • To create and ensure a safe environment that is free of sexual harassment, including safety from persons/visitors coming into contact at the workplace. • To publicise the policy through notice boards and distribution of pamphlets • To publicise the names and phone numbers of members of the Committee. • To organise orientation seminars to discuss the nature and scope of the sexual harassment of women at the workplace (Prevention, Prohibition and Redressal) Act 2013, at the beginning of the academic year. • To organise One or more workshops/seminars annually where external experts on the subject will interact with all employees and students and discussion forums where gender sensitization and gender awareness will be the focus Spreading awareness of the policy and implementation of the same through informal sessions, performances, cultural events, etc., about the policy being implemented by ICC.	As and when required

Table 10.1.3.1 Governing Council

Sl.No.	Name & Address of the Member	Designation in GB	Category
1	Sri.G.Raghava Reddy	Chairman	Member of the Management Trust
2	Sri. P.Subba Reddy	Member	Member of the Management Trust
3	Ms.G.Srividya Reddy	Member	Member of the Management Trust
4	Prof.G.Gopal Reddy	Member	Academician
5	Mrs Kiranmai Pendyala	Member	Entrepreneur
6	Dr.V.Venkateswara Reddy	Ex-officio Member	University Nominee
7	Dr.K.Rama Adviser	Ex-officio Member	UGC Nominee
8	Nominee of Dept.of Technical Education, Govt.of Telangana	Ex-officio Member	State Govt. Nominee
9	Dr.K.Ramalinga Reddy	Member	Teacher of the College
10	Dr.M.Seetha	Member	Teacher of the College
11	Dr. K.Ramesh Reddy	Member Secretary	Principal of the College

Table 10.1.3.2 Academic Council

S.No	Name	Composition	Position
1	Dr. K.Ramesh Reddy	Principal,GNITS	Chairman
2	Dr.K.Ramalinga Reddy	Dean, Academics & Chairman-BOS, ETM	Member
3	Dr.M.Seetha,	Dean, R & D, HOD & Chairman-BOS,CSE	Member
4	Dr.I.Ravi Prakash Reddy	Dean, Placements & Corporate Relations & Chairman-BOS, IT	Member
5	Dr.B.Venkateshulu	Dean Alumni Relations & Higher Education & Chairman-BOS, ECE	Member
6	Dr.N.Malla Reddy	Dean, Hostels & Admissions & Chairman-BOS, EEE	Member
7	Dr.P.Aparna	Dean, Student Affairs & Chairman-BOS, H & M	Member
8	Dr.T.Charan Singh	HOD & Chairman-BOS, BS	Member
9	Dr.G.Annapurna	Coordinator – PG studies	Sr.Faculty of the Institution
10	Dr.N.Kalyani	Dean – Innovation & Incubation Professor in CSE	
11	Dr.Rajkumar L Biradar	Professor & HOD in ETM	
12	Dr.M.Nagasree	Sr. Asst. Professor in Mathematics	
13	Dr.G.Yesuratnam	Professor, OUCOE, Hyderabad	Experts from outside the College nominated by Governing Body
14	Mr B.S.S.Prasad	Delivery Manager,M/s.Infosys,Hyderabad	
15	Mr.Ch.Lakshman Kumar	Site Head Quest diagnostics, Hyderabad	
16	Sri.K.Raji Reddy	Advocate,76/2RT,Saidabad Colony,Hyderabad	
17	Dr.M.Madhavi Latha	Sr. Prof. of ECE, JNTUH UCESTH	Nominees from Affiliating University (JNTUH)
18	Dr.O B V Ramanaiah	Sr. Prof. of CSE, JNTUH UCESTH	
19	Dr.A.Aruna Kumari	Prof.of ME, JNTUH UCESTH	
20	Dr.G.P.Prasada Reddy	Prof.in Mech.Eng. & Controller of Examinations, GNITS	Member Secretary

Table 10.1.3.3 Finance Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. P. Rekha	Coordinator

3	Mrs. G. Ujwala	Member
4	Dr. P..Sunitha Devi	Member
5	Mrs.B.Tulasi Sowjanya	Member
6	Dr. V.Sesha Bhargavi	Member
7	Mr.G.Krishna Reddy	Member
8	Mr. S. Rama Krishna	Member
9	Mr. P. Venkata Rami Reddy	Member

Table 10.1.3.4 Boards of Studies

S. No.	Details of the Member	Composition/Position
1	Head of the Department	Chairman
2	Faculty of each Specialization	Members
3	Subject experts outside the college (Nominated by the Academic Council)	2-Members
4	Subject expert of the University (Nominated by the Vice-Chancellor)	1-Member
5	Representative from Industry	1-Member
6	Alumnus – nominated by Principal / BoS	1-Member
7	Experts from outside the college whenever special courses of studies are to be formulated by The chairman/Board of Studies/principal	1-Member

Table 10.1.3.5 College Academic Committee

S. No	Name	Designation	Position
1	Dr.K.Ramesh Reddy	Principal	Principal
2	Dr.K.Ramalinga Reddy	Dean, Academics	Member
3	Dr.M.Seetha	Dean, R&D	Member
4	Dr.I.Ravi Prakash Reddy	Dean, Placements & Corporate Relations	Member
5	Dr.B.Venkateshulu	Dean Alumnae Relations & Higher Education	Member
6	Dr.N.Malla Reddy	Dean, Hostels & Admissions	Member
7	Dr. N. Kalyani	Dean, Innovation & Incubation	Member
8	Dr.P.Aparna	Dean, Student Affairs	Member
9	Dr. G. P. Prasada Reddy	Controller of Examinations	Member
10	Dr.K.Ragini	HOD, ECE	Member
11	Dr. S. Ramcharan	HOD, IT	Member
12	Dr. A. Sharada	HOD, CSE	Member
13	Dr. O. Obulesu	HOD, (CSM,CSD)	Member
14	Dr. P. Ramakrishna Reddy	HOD, EEE	Member
15	Dr.Rajkumar L Biradar	HOD, ETE	Member
16	Dr.M.V.L.SuryaKumari	Physical, Director	Member
17	Dr. M. Madhavi Lata	HOD, H&M	Member
18	Mr.T.V.Rammohan Reddy	HOD Civil	Member
19	Mr.G.NarendraBabu Reddy	TPO	Member

Table 10.1.3.6 Library Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	G. Krishna Reddy, Assoc, Professor ETE	Coordinator
2	G. Sujatha, Asst. Professor, EEE	Member
3	Dr. C. Padmaja, Asst. Professor, ECE	Member
4	T. Divya Kumari, Asst. Professor, CSE	Member
5	D. Vijayakumar, Asst. Professor, IT	Member
6	Vijaya Lakshmi Asst. Professor, CSD & CSM	Member
7	P.M.S. Hallika, Asst. Professor Mech	Member
8	Dr. Areman Ramyasri, Asst. Professor, H&M	Member
9	B. Mrinalini, Asst. Professor,B&S	Member
10	Dr K Bharatha lakshmi devi Librarian	Convener & Secretary
11	R. Devi Sree, EEE IIA	Student member
12	Ch. Sai Rishitha, EEE IIB	Student member
13	Shreya Pabbathi, ECE IIA	Student member
14	Aabha Ratna Singh, ECE IIB	Student member
15	R. Pravalika, ECE, IIC	Student member
16	Gayatri Kilari CSE IIA	Student member
17	Y. Vaishnavi, CSE, IIB	Student member
18	G. Divija, CSE IIC	Student member
19	Vaishnavi CSD II	Student member
20	Pranavi, CSM II	Student member
21	A. Sushma CSM II	Student member
22	M. Deekshitha, IT II A	Student member
23	A. Mehvish, IT IIB	Student member
24	P. Neha Reddy ETE II	Student member
25	P. Varsha EEE III A	Student member
26	V. Anusri EEE III B	Student member
27	R. Padmavathi ECE III-A	Student member
28	Munigela Naveena ECE III B	Student member
39	M. Varshitha Reddy ECE III C	Student member
30	K. Sri vishnavi CSE III A	Student member
31	Sai Shriya CSE III B	Student member
32	Varshitha Reddy CSE III C	Student member
33	Bhavana CSD III	Student member
34	N. Farheen CSM III	Student member
35	Posti Nishitha CST III	Student member
36	P. Swadhika IT III A	Student member

37	M. Akhshitha	IT III B	Student member
38	B. Malavika	ETM III	Student member

Table 10.1.3.7. Anti-ragging Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K.Ramesh Reddy, Principal	Chairman
2	Prof. Ch Ganapathy Reddy,ECE	Nodal Officer
3	Mr V Radhakrishna, Asst Prof., ECE	Member
4	Mrs. Divya Raj, Asst Prof.,CSE	Member
5	Mrs J.Mamatha, Asst.Prof., HM	Member
6	Prof G.Gopinath, EEE	Member
8	Mrs. Ch.Sravanthi., Asst.Prof., IT	Member
8	Mr. Siva Sankar Namani,Asst Prof., AI &ML	Member
9	Mr Hari Krishna,Asst Prof., ETE	Member
10	Dr. S.Uday Bhasker, Asst.Prof.,BS	Member
11	Ms. N.Hiranmai, Asst. Prof., Mech	Member
12	M Kalyani	Student member
13	V Sai Sreeja	Student member
14	M.Lakshmi Prasanna	Student member
15	Chalamarla Naveena	Student member
16	B.Sai Praveena	Student member
17	Rukmini Manasa	Student member
18	Munukuntla Greeshma	Student member
19	Shravya Janamanchi	Student member
20	N. Ravithreni	Student member
21	B. Aishwarya	Student member
22	V. Sai Sravani	Student member
23	Lakshmi Prasanna	Student member
24	M.Divija	Student member
25	M. Deekshitha Varma	Student member
26	R.Devisree	Student member
27	A Mrudula	Student member
28	Ramyasri	Student member
29	K. Nayana Harshita	Student member
30	G Pravalika	Student member
31	M.Sharanya	Student member
32	J.Rishika	Student member
33	K. Sai Pooja	Student member
34	Afifa	Student member
35	Ala Thanmai	Student member
36	G.Nikhitha	Student member
37	Masraddh	Student member
38	K.Manisha	Student member
39	J. Siddhi Harika	Student member

Table 10.1.3.8. Grievance Redressal (Students)

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K.Ramesh Reddy	Chairman
2	Dr.A.Alakanandana	Coordinator
3	Dr.M.Nagasree	Member
4	Mrs.Bhageshwari Ratkal	Member
5	Mrs.B.Narmada	Member
6	Dr.A.Naveena	Member
7	Mrs.K.Sridevi	Member
8	Mrs.T.Srilatha	Member
9	G.Tanmayi	Student Member
10	Yalala Vaishnavi	Student Member
11	Namrata	Student Member
12	D.Haritha	Student Member
13	Naga Shriya Saroj.A	Student Member

Table 10.1.3.9. Grievance Redressal (Staff)

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K.Ramesh Reddy	Chairman
2	Dr.A.Alakanandana,	Coordinator
3	Dr.M.Nagasree	Member
4	Mrs.Bhageshwari Ratkal,	Member
5	Mrs.B.Narmada,	Member
6	Dr.A.Naveena,	Member
7	Mrs.K.Sridevi,	Member
8	Mrs.T.Srilatha,	Member
S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)

Table 10.1.3.10. Examination/ Results Review Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K. Ramesh Reddy	Chairman

2	Dr.G.P.Prasada Reddy	COE
3	Mr.B.V.Prasad Babu	Member
4	Dr.S.M.Swamy	Member
5	Dr.K.Syamala Devi	Member
6	Dr.M.Aparna	Member
7	Mr.D.Swamy	Member
8	S.Naga Sarveswara Reddy	Member

Table 10.1.3.11. Research Advisory Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member)
1	Dr. K. Ramesh Reddy, Principal	Principal - Chairman
2	Dr. M. Seetha, Professor, CSE, Dean, R&D	Dean, R&D
3	Dr. K. Prasanna, Associate Professor, CSE	R&D Coordinator
4	Dr. S. Viswanadha Raju, Professor, CSE, JNTUHCEJ, Jagityal	External Advisory Member
5	Dr. G. Prasad, Scientist F, ISRO	External Advisory Member
6	Shri E Siva Shankar, Head, Water Resources Group, NRSC, Hyderabad	External Advisory Member
7	Dr. D.V. Lalitha Parameshwari, CSE	Member
8	Dr. B. Sashidhar, CSE(AI&ML)	Member
9	Mr. N. Siva Shankar, CSE(AI&ML)	Member
10	Dr. V. Supriya, IT	Member
11	Dr. Swapna Raghunath, ECE	Member
12	Dr. R. Nageshwar Rao, EEE	Member
13	Dr. M. Vijayalaksmi, ETE	Member
14	Dr. S. Vasundhara, H&M	Member
15	Dr. Pragathi Jogi, BS	Member
16	Mrs. P.M.S. Hallika, Mechanical	Member

Table 10.1.3.10. Examination/ Results Review Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K. Ramesh Reddy	Chairman
2	Dr.G.P.Prasada Reddy	COE
3	Mr.B.V.Prasad Babu	Member
4	Dr.S.M.Swamy	Member
5	Dr.K.Syamala Devi	Member
6	Dr.M.Aparna	Member
7	Mr.D.Swamy	Member
8	S.Naga Sarveswara Reddy	Member

Table 10.1.3.11. Research Advisory Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member)
1	Dr. K. Ramesh Reddy, Principal	Principal - Chairman
2	Dr. M. Seetha, Professor, CSE, Dean, R&D	Dean, R&D
3	Dr. K. Prasanna, Associate Professor, CSE	R&D Coordinator
4	Dr. S. Viswanadha Raju, Professor, CSE, JNTUHCEJ, Jagityal	External Advisory Member
5	Dr. G. Prasad, Scientist F, ISRO	External Advisory Member
6	Shri E Siva Shankar, Head, Water Resources Group, NRSC, Hyderabad	External Advisory Member
7	Dr. D.V. Lalitha Parameshwari, CSE	Member
8	Dr. B. Sashidhar, CSE(AI&ML)	Member
9	Mr. N. Siva Shankar, CSE(AI&ML)	Member
10	Dr. V. Supriya, IT	Member
11	Dr. Swapna Raghunath, ECE	Member
12	Dr. R. Nageshwar Rao, EEE	Member
13	Dr. M. Vijayalaksmi, ETE	Member
14	Dr. S. Vasundhara, H&M	Member
15	Dr. Pragathi Jogi, BS	Member
16	Mrs. P.M.S. Hallika, Mechanical	Member

Table 10.1.3.12. NSS Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy, Principal	Chairman
2	Dr. NVSL Narasimham, Assoc.Prof.	Program Officer
3	Dr. P. Rekha, Assoc. Prof.	Coordinator
4	Mrs. P.Mamata, Asst. Prof, EEE	Member
5	Mr. B. Vamshi, Asst. Prof, CSE	Member
6	Mrs. Ch. Anusha Reddy Asst. Prof, ECE	Member
7	Mrs. A.Nageswari, Asst. Prof, IT	Member
8	Dr. A. Naveena,, Asst. Prof, ETE	Member

Table 10.1.3.13. Industry Institute Interaction / Partnership / Placement Committee

S.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K. Ramesh Reddy,Principal	Chairman
2	Dr.I.Ravi Prakash Reddy	Dean, Placements & Corporate Relations
3	Dr.G.Narendra Babu Reddy	Training & Placement Officer
4	Mr.Ch .Sudharshan Reddy	Coordinator
5	Mr.G.Naga Babu	Coordinator
6	Mr.Siva Sankar Namani	Coordinator

7	Mr. B.Sreekanth Reddy	Coordinator
8	Mr.C.Sridhar Babu	Coordinator
9	Mr.N .RamaKrishna	Coordinator
10	Mr.P.Sai Niranjan Kumar	Coordinator
11	Mr.Ch.LeelaKrishna	Coordinator
12	Ms.Y.RajaLakshmi	Coordinator
13	Mr.P.Purushotham	Coordinator

Table 10.1.3.14. I & I Dept.

Sl. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. N. Kalyani	Dean Innovation & Incubation
3	Dr. G. Malini Devi	Convener
4	Mr. V. Vikas	YUKTI Coordinator
5	Mr. V. Badri Ramakrishna	
6	Mrs. Bhageshwari Ratkal	Social Media Coordinator
7	Dr. T. Sunitha	
8	Mrs. M. Lalitha	Innovation Activity Coordinator
9	Mr.G.Krishna Kishore	
10	Dr.P.Rekha	IPR Coordinator
11	Dr.G.Malini Devi	
12	Mrs.E.Gouthami	
13	Mr.B.Rakesh Goud	Startup Activity Coordinator
14	Mrs.P.N.Ramya	
15	Mrs.Usha	IIC & ARIIA Coordinators
16	Dr.T.Himabindu	
17	Mrs.B.Amrita	
18	Dr.C.Padmaja	NISP Coordinator
19	Dr.K.Mrudula	
20	Ms.N.Hiranmai	Design Thinking Coordinator
21	Mrs.P.M.S.Hallika	
22	Mrs.Aradhana S	Project Consultant
23	Mrs. Setu Sharma	
24	Mrs. T.Neha	Members
25	Mr. P.Sathyanarayana Goud	
26	Dr.I.Radhika	
27	Mrs.Pooja Vitthalrao Phad	
28	Mrs.M.Shanti	
29	Dr.T.Malathi Latha	

Table 10.1.3.15. Internal Quality Assurance Cell

S.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K. Ramesh Reddy,Principal	Chairman
2	Dr.I.Ravi Prakash Reddy	Dean, Placements & Corporate Relations
3	Dr.G.Narendra Babu Reddy	Training & Placement Officer
4	Mr.Ch .Sudharshan Reddy	Coordinator
5	Mr.G.Naga Babu	Coordinator
6	Mr.Siva Sankar Namani	Coordinator
7	Mr. B.Sreekanth Reddy	Coordinator
8	Mr.C.Sridhar Babu	Coordinator
9	Mr.N .RamaKrishna	Coordinator
10	Mr.P.Sai Niranjan Kumar	Coordinator
11	Mr.Ch.LeelaKrishna	Coordinator
12	Ms.Y.RajaLakshmi	Coordinator
13	Mr.P.Purushotham	Coordinator

Table 10.1.3.16. Timetable committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Principal
2	Mr. M. V. Ramana Reddy	Coordinator
3	Dr.S.Vasundhara	Co-Coordinator
4	V.Divya Raj	Member
5	R. Mamatha	Member
6	D.. Anusha	Member
7	T.Neha	Member
8	P.Sreepadma	Member
9	K.Swathi	Member
10	K.PriyamVada	Member
11	S. Bhulakshmi	Member
12	U.jyothi	Member
13	M.Deepthi	Member
14	V.Anitha	Member
15	N. Hiranmai	Member
16	M. Yashwanth Kumar	Member
17	Anupama Venugopal	Member
18	Keshav Kumar .K.	Member
19	T.Malathi Lata	Member

20	Dr. A. Alalanananada	Member
21	Dr. M. Shanti	Member
22	Dr.K.Syamala Devi	Member

Table 10.1.3.17. Alumnae Coordination Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. P. Sreesudha, Asst. Prof, ETE	Co-ordinator
3	Mrs. Y. Priyanka, Asst. Prof, EEE	Co-coordinator
4	Mrs. J. Padmavathi,Asst Prof, CSE	Faculty Member
5	Mrs. K. Swathi, Asst. Prof., ECE	Faculty Member
6	Mrs. G. Sujatha,Asst. Prof., EEE	Faculty Member
7	Ms. K. Pranathi, Asst. Prof., ETE	Faculty Member
8	Dr. L. Smitha, Asst. Prof., IT	Faculty Member
9	Mrs. V Jahnavi, Senior Asst. Prof., H & M	Faculty Member

Table 10.1.3.18. Website committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K.Ramesh Reddy	Chaiman
2	Dr. M.Seetha Dean R&D , Professor in CSE.	Website In-charge
3	Mr. T. Rajesh , Asst. Professor, CSE	Web Master
4	Ms. G. Sandhya, Programmer, CSE	Web Coordinator
5	Mr. B. Syam Sundar Reddy	Web Coordinator
6	Mr. N. Venkateswarulu, Asst .Prof.	CSE
7	Dr. Renuka Methre, Associate Prof.	ECE
8	Mrs Ujawala, Asst.Prof.	EEE
9	Mrs.D.Sree Lakshi, Asst.Prof	IT
10	Dr. A. Naveena, Asst.Prof	ETM
11	Ms. VB Sangeetha, Asst.Prof	H & M
12	Dr. S. Uday Bhaskar, Asst.Prof	BS
13	Mrs. D.Niharika, Asst.Prof	Mech. Eng.
14	Dr. Bharata Lakshmi Devi, Librarian	Library
15	Dr.M.V.L Surya Kumari, Physical Directress	Physical Education

Table 10.1.3.19. Games and Sports Committee

S. No.	Name of the Member	Designation & Department	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K.Ramesh Reddy	Principal	Chairman
2	Dr.A.Alakanandana	Assoc. Prof.- BS dept.	Coordinator
3	Dr.M.V.L.Surya Kumari	Physical director	Member
4	Mr T.V.Ram Mohan Reddy	HOD- Civil dept.	Member
5	Mrrs. Ch. Shravanthi	Asst. Prof., IT dept.	Member
6	Mr.Ch.Sudarshan Reddy	Asst. Prof., CSE dept.	Member
7	Mr Ch.Leela Krishna	Asst. Prof., EEE dept.	Member
8	Mrs K.Swathi	Asst. Prof., ECE dept.	Member
9	Mrs V.Anitha	Asst. Prof., ETM dept.	Member
10	Dr.S.Vasundhara	Asst.Prof., HM dept.	Member

Table 10.1.3.20. Arts and Cultural Committee

S.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy, Principal	Chairman
2	Mrs. VB Sangeetha, Assoc.Prof., HM	Coordinator
3	Mr. V. Badri Rama Krishnan, Asst. Prof.,EEE	Member
4	Mrs. V. Divya Raj, Asst. Prof., CSE	Member
5	Mrs. K. Swathi, Asst. Prof., ECE	Member
6	Mrs. M. Sridevi, Asst. Prof., IT	Member
7	Dr. T. Sunitha, Asst. Prof., ETM	Member
8	Mrs. Anupama Venugopal, Asst. Prof., HM	Member
9	Mrs. O. Sujana, Asst. Prof., BS	Member

Table 10.1.3.21. Career Guidance Cell

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1.	Dr. K.Ramesh Reddy, Principal	Chairman
2.	Dr. P.Sunitha Devi, Asst. Prof., CSE	Coordinator
3.	Mr.P.Sai Niranjan, Asst. Prof., EEE	Member
4.	Mr. P.Satyanarayana, Asst. Prof., ECE	Member
5.	Mr. G.Naga Babu, Asst. Prof., CSE	Member
6.	Mrs. V. Usha, Asst. Prof., IT	Member
7.	Mrs. M.Jyothsna, Asst. Prof., ETE	Member

Table 10.1.3.22. Indian Society for Technical Education (ISTE)

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy, Principal	President ISTE
2	Dr. G. P. Prasada Reddy, CoE	Vice President ISTE
3	Mr.Ch. Hari Prasad, Assistant Professor, ECE	Secretary-ISTE

4	Mr.Ch. Sudhakar Reddy, Associate Professor, IT	Faculty Advisor, ISTE
5	Ms. Bhageshwari Ratkal Assistant Professor, CSE	Teasurer, ISTE
6	Mr. P. Chandrasekhar Assistant Professor, ECE	Coordinator, ISTE
7	Ms. D.R. Nanda Devi, Assistant Professor, CSE	Coordinator, ISTE
8	Ms. C Bhagyashree, Assistant Professor, CSD	Coordinator, ISTE
9	Ms. P. Sreesudha, Assistant Professor, ETE	Coordinator, ISTE
10	Ms. P. N. Ramya, Assistant Professor, IT	Coordinator, ISTE
11	Ms. Dr. T. Himabindu Assistant Professor,EEE	Coordinator, ISTE
12	Ms. M. Naga Sree, Sr.Assistant Professor, H&M	Coordinator, ISTE

Table 10.1.3.23. IEEE Student Branch

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K Ramesh Reddy	Principal
2	Dr. N Malla Reddy ,EEE	SB Mentor
3	Dr. Renuka Devi S M ,ECE	SB Co-ordinator , WiE faculty advisor
4	Dr. Himabindu T , EEE	SB Counsellor, IES Faculty Advisor
5	Dr. C. Padmaja ,ECE	Sensors Council Faculty Advisor
6	Mrs. K. Swarna Latha , EEE	PELS Faculty Advisor
7	Mrs. B. Amrita CSE	Group Challan, Web Master
8	Mrs. D. Vandana IT	Membership Development Committee (MDC) Chair
9	Mrs. G. Madhavi ,ECE	Financial advisor, Minutes Of Meeting in charge
10	Mrs. K. Pranathi ,ETE	Public relations and Content Writing
11	Dr Sushma ,H&M	First year students communication
12	Dr I Radhika , BS	First year students communication
	Student EXCOM Members	
13	Nasira Banu ECE	Chair
14	V. Nanditha Reddy , ECE	Vice - Chair
15	C. Madhuri , EEE	Secretary
16	G. Jhansi Laxmi EEE	Treasurer
17	K. Sahithi CSE	PR Head
18	Ch. Poojitha CSE	PR Co-Head
19	S. Meenakshi EEE	Content Writing and Designing Head
20	Pranavya Akula CSM	Content Writing and Designing Co-Head
21	B. Sri Vaishnavi EEE	Photography Head
22	B. Usha Sri Chowdary ECE	Photography Co-Head

Table 10.1.3.24. CSI

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.M.Seetha	Chairman
2	Mrs.P.Sunitha Devi	Student Branch Counsellor
3	Mr.R.Mamatha	Faculty Advisor
4	Mrs.K.Sneha Reddy	Faculty Advisor

Table 10.1.3.25. IETE Student Forum

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K Ramesh Reddy, Principal	President
2	Dr.K Ragini, HOD ECE	Convener
3	Mr. Y. Rakesh Kumar, Asst.Prof. ECE	Faculty coordinator
4	Dr. A. Naveena, Asst.Prof. ETE Mr. V. Radhakrishna, Asst.Prof. ECE	Faculty Advisors
5	G. Krishna Haneesha (4/4 ECE)	Vice- President
6	N.Pallavi (4/4 ECE) M.Akhila (4/4 ETE)	Secretory
7	S.Prathima Reddy (3/4 ECE)	Treasurer

Table 10.1.3.26. Canteen Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. R Nageswara Rao	Coordinator
3	Mr. T.V. Ram Mohan Reddy.	Member
4	Mr. C. Sudhakar Reddy	Member
5	Mr V.Radha Krishna	Member
6	Mrs. B.R.Lakshmi,	Member
7	B.Rakesh Goud	Member
8	Mr . B. Vamsee	Member
9	Ms A. Rajitha	Member

Table 10.1.3.27. College Magazine Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1.	Dr.K.Ramesh Reddy, Principal	Chairman
2.	Dr.P.Aparna, Professor & Dean (Student Affairs)	Chief Editor
3.	Dr.B.Sushma, Associate. Prof. of English, H&M	Convenor
4.	Mrs V.Jahnavi, Sr. Asst. Prof. of English, H&M	Coordinator
5.	Mrs. P. Mounika, Asst. Prof, IT	Faculty member
6.	Mrs.P.V.S.S.A.Parimala, Asst. Prof., EEE	Faculty member

7.	Mrs.Ch.Radhika, Asst. Prof., CSE	Faculty member
8.	Mrs.V.Uma, Assoc. Prof., ECE	Faculty member
9.	Mrs. A. Rajitha, Asst. Prof., ETM	Faculty member
10.	Mr S.N.Sarveswara Reddy, Asst. Prof. Mech.	Faculty member
11.	Ms. Aswani R.Jeevan, Asst. Prof. H & M	Faculty member
12.	Mr G.Narendra Babu Reddy, TPO	Faculty member
13.	Dr.Pragati Jogi, Asst. Prof. BS	Faculty member
14.	Dr MVL Surya Kumari, PD	Faculty member
15.	Dr.K.Bharatha Lakshmi Devi, Librarian	Faculty member
16.	B. Daksha ¼ CSD	Student Member
17.	D. Bhavitha ¼ CSE-A	Student Member
18.	B. Neha ¼ CSE-B	Student Member
19.	Mohana Sreshta. T ¼ CSM-A	Student Member
20.	V. Sai Ujwala ¼ ECE-A	Student Member
21.	B. Chandana ¼ ECE-C	Student Member
22.	A. Swetha ¼ EEE-A	Student Member
23.	Ch. Sai Siri Jahnavi ¼ ETM	Student Member
24.	B. Greeshma ¼ IT-A	Student Member
25.	G. Angel ¼ IT-B	Student Member

Table 10.1.3.28. NPTEL &FDP

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.M.Vijaya Lakshmi, ECE	Coordinator
2	Dr. V. Vijaya Lakshmi, Asst. Prof., H&M (FDP &NPTEL)	Member
3	Ch. Swathi. Asst.Prof., CSE (FDP &NPTEL)	Member
4	Ch. Veena, Asst. Professor, CSE (AI &ML) (FDP &NPTEL)	Member
5	P. Satyanarayana goud Asst. Prof., ECE (FDP)	Member
6	A. Chandra Shaker, Asst. Prof., ETM (FDP &NPTEL)	Member
7	K. Swarna Latha, Asst. Prof., EEE (FDP)	Member
8	T. Ammannamma, Asst. Prof., IT, (FDP &NPTEL)	Member
9	M. Shanti, Asst. Prof., BS, (FDP &NPTEL)	Member
10	M. Lakshmi, Asst. Prof., ECE(NPTEL)	Member
11	Dr. G. Satheesh, Asst. Prof., EEE (NPTEL)	Member

Table 10.1.3.29. Purchase Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Smt. Srividya Reddy G.	Chairman
2	Dr. K. Ramesh Reddy	Convener
3	Mr.M. Venkata Ramana Reddy	Coordinator
4	B.V. Prasad Babu	Coordinator
5	Mrs. M Vijayalakshmi	Member
6	Mr. G. Krishna Reddy	Member
7	Mr. G. Ramana Reddy	Member
8	Dr. P. Sunitha Devi	Member
9	Mr. M. Yashwanth Kumar	Member
10	Dr. P. Rekha	Member
11	Mr. S. Rama Krishna	Member
12	G.V.Avadhani	Member

Table 10.1.3.30. Press and Social Media Committee

S.No	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy, Principal	Chairman
2	Dr. A. Naveena, Asst. Prof.	Coordinator
3	Mrs. D. Sreelakshmi, Asst. Prof.	Co-coordinator, Social media
4	Mrs. P. Roopa Ranjini, Asst. Prof.	Co-coordinator, Press
5	Mr. G. V. Avadhani, Dean Administration	Press Relations Incharge
6	Ms. Ramya Madhavaram, CEO, R-Work	External Member
7	Mrs G. Sandhya, Asst. Prof.	Faculty Member
8	Mrs. G.Roja, Asst.Prof.	Faculty Member
9	Mrs. P. Lavanya, Asst. Prof.	Faculty Member
10	Mrs. D. Niharika, Asst. Prof.,	Faculty Member
11	Dr. K. Mrudula, Asst. Prof.	Faculty Member
12	Mr. B. Rakesh Goud, Asst. Prof.	Faculty Member
13	Dr. P. Sreesudha, Asst. Prof., Alumni Coordination Committee Coordinator	Faculty Member
14	Dr. G. Narendra Babu Reddy, Asst., Training and Placement Officer	Faculty Member
15	Dr. MVL Surya Kumari., Physical Directress	Staff Member
16	Mrs. G. Manjula., Library Asst.	Staff Member
17	Arshiya,	Student Member
18	Akipalli Sri Usha,	Student Member
19	K. Sai Charitha,	Student Member
20	M. Pragya Teja Sri	Student Member
21	Nikitha Mora	Student Member
22	S. Sudeepthi,	Student Member
23	T. Sai Pratyusha,	Student Member
24	B. Neha Rao	Student Member
25	M. Sri Sai Chinmai,	Student Member
26	A. Amulya,	Student Member
27	P. Shivani,	Student Member

28	Banoth Supriya, II, CSE	Student Member
29	A.Pragna,	Student Member
30	Varenya Gyanmote,	Student Member
31	Vaishnavi Karra,	Student Member

Table 10.1.3.31. Environmental Club

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1.	Dr. K. Ramesh Reddy	Chairman
2.	Dr. K. Shyamala Devi	Convener
3.	Mr. Y. Prakash	Member
4.	Mr. B. Vamshi	Member
5.	Mrs. B. Vijaya Lakshmi	Member
6.	Mrs. E. Gouthami	Member
7.	Ms. G. Santhoshi	Member
8.	Mr. G. Hari Krishna	Member
9.	Mr. K. Naresh	Member
10.	Ms. Arya Mohan	Member
11.	Mr. B. Rakesh Goud	Member

Table 10.1.3.32. Hostel Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. N. Malla Reddy	Convener
3	Mrs. Anupama Venugopal	Coordinator
4	Major Rakesh Gulati	Hostel Manager
5	Dr. K. Bharatha Lakshmi Devi	Member
6	Dr.MVL Surya Kumari	Member
7	Mrs. V. Divya Raj	Member
8	Mrs. P. Mounika	Member
9	Mrs. E. Gouthami	Member
10	Mrs. K. Swathi	Member
11	Mrs. A. Rajitha	Member
12	Mrs. O. Sujana	Member

Table 10.1.3.33. Admission Committee

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Principal
2	Dr. N. Malla Reddy	Dean, Hostels & Admissions
3	Dr. T. Charan Singh	Assoc. Prof & HOD
4	Mr B.Rakesh Goud	Asst. Prof
5	Dr.N.Ramesh	Asst. Prof
6	Dr. S. Uday Bhaskar	Assoc. Prof
7	Dr. Y. Veera Swamy	Asst. Prof
8	Mr G.V.Avadhani	Dean, Administration
9	Mr. K. Srinivasa Rao	Transport and Hostel Manager
10	Mr. Rakesh Gulati	Manager, Hostels
11	Mr P.Venkata Rami Reddy	Accounts Officer
12	Mr K.Ranganath	Programmer

Table 10.1.3.34. SC/ST Cell

Sl. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. P. Aparna	Coordinator
3	Dr. G. Malini Devi	Convener
4	Dr. L. Smitha	Member
5.	Mr. P. Chandra Sekhar	Member
6.	Mrs. G. Sujatha	Member
7.	Mrs. K. Pranathi	Member
8.	Mrs. P. Saritha	Member

Table 10.1.3.35. Ethics and Conduct committee

Sl. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. P. Aparna	Convenor
3	Mrs. V. Jahnavi,	Co- Convenor
4	Mrs. Bhageswari Ratkal	Coordinator
5	Dr. T. Anuradha	Co-coordinator
6	Mrs. P. Madhuri	Member
7	Mrs. P.N. Ramya	Member
8	Mrs. P. Mamatha	Member
9	Mrs. P.M.S. Hallika	Member
10	Mrs. C. Aarthi	Member

Table 10.1.3.36. Medical Cell

Sl.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Mr. T. V. Rammohan Reddy	Coordinator
3	Dr. MVL Surya Kumari	Member
4	Dr. K. Bharata Lakshmi Devi	Member
5	Mr. G. V. Avadhani	Member
6	Mr. K. Srinivasa Rao	Member

Table 10.1.3.37. Student Counselling

Sl.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Mrs. V. Jahnavi	Coordinator & Counselling Psychologist
3	Mrs. P. Mamatha	Member
4	Mrs. Ch. Swathi	Member
5	Mr. V. Radha Krishna	Member
6	Mrs. M. Bhavani	Member
7	Mr. A. Chandrasekher	Member
8	Dr. S. Uday Bhaskar	Member

Table 10.1.3.38. Student affairs

Sl.No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr. K. Ramesh Reddy	Chairman
2	Dr. Aparna Palle	Professor- Incharge
3	Dr. T. Anuradha	Coordinator
4	Dr. B. Rajeshwari	Coordinator
5	Ms. Bhageshwari Ratkal	Member
6	Mrs. G. Roja	Member
7	Ms. C. Bhagya sree	Member
8	Mrs. P. Madhuri	Member
9	Mrs. P. Mamatha	Member
10	Dr. T. Sunitha	Member
11	Mrs. P. N. Ramya	Member
12	Mrs. P. M. S. Hallika	Member
13	Mrs. C. Aarthi	Member
14	Ishitha Doniparthi	President
15	Ms. R. Aashritha Reddy	Vice-President
16	Ms. Guda Tharunya Varma	General Secretary
17	Ms. Sankepally Meghana Reddy	Joint Secretary
18	Ms. Kondoju Jyothsna	Cultural Secretary
19	Ms. Thogaru Vennela	Cultural Joint Secretary
20	Ms. Himaja Elluru	Technical Secretary
21	Ms. Thogaru Vennela	Technical Joint Secretary
22	Ms. S.V.L. Santhoshi Pavani	Sports Secretary
23	Ms. Harini Karnati	Sports Joint Secretary
24	Syeda Shifa Fatima	Finance Secretary
25	Kanchoju Devi	Finance Joint Secretary
26	Ms. T. Bhavani	Editor In-Chief
27	Ms. B. Siri Chandana	Assistant Editor
28	Ma. T. Harshitha	Public Relations and Social Media Head
29	Ms. A. Akshara Rao	Marketing and Branding Head
30	Ms. A. Rohini Priya	Creative Design Head
31	Ms. Preethi Patil	Communication Head
32	Ms. G. Yashaswi Sri	Documentation Head

Table 10.1.3.39. Internal Complaints Committee/Sexual harassment

S. No.	Name of the Member	Position (Chairman/ Coordinator/ member etc.)
1	Dr.K.Ramesh Reddy , Principal	Chairman
2	Mrs.T . Aparna , Asstant Professor IT	Coordinator
3	Ms Bhagyasri Marreddy, Sr. Advocate , High Court Of Telanga	External Member
4	Dr. P. Aparna , Prof & Dean Student Affairs	Member
5	Dr. M.V.L. Surya Kumari , Physical Directress	Member
6	Mrs. K. SwarnaLatha , Asst Prof EEE	Member
7	Mrs. BhageswariRatkal , Asst Prof CSE	Member
8	Dr.T. Sunitha , Asst Prof ETE	Member
9	Mrs. M. Sreevalli Asst Prof , BS	Member
10	Mrs Swathi , Asst Prof ECE	Member
11	Ms Hiranmayi , Asst Prof Mech	Member

B. The published service rules, policies and procedures with year of publication (3)

Service Rules of the Employee/HR Policy-2022

The Rules contained in the Administrative Manual shall be called the “G.Narayanamma Institute of Technology & Science (For Women), Hyderabad-Service Rules/HR Policy 2022” (Governing the service conditions of all the Employees of the Institute, both Teaching and Non-teaching staff) and will come into force w.e.f 01 January 2022.

Application:

a) These Rules shall apply to all the Employees of G.Narayanamma Institute of Technology & Science (For Women), Hyderabad.

b) Points requiring interpretation or clarification or any cases of doubt shall be referred to the Governing Council, whose decision shall be final.

c)All the Employees are required to familiarize themselves with these Rules immediately upon appointment since their services will be governed and regulated by these Rules.

CLASSIFICATION OF EMPLOYEES

Employees in GNITS are classified into the following categories

1.REGULAR EMPLOYEES

A person who is appointed against a Regular Post carrying scale of pay and who has satisfactorily completed the probation period stipulated in the appointment order or the extended probation period to the entire satisfaction of the Management and who has been confirmed is called Regular Employee.

2.PROBATIONER

An Employee who is provisionally appointed to a Regular Post and who has not completed the probation period is called a Probationer.

3.CONTRACT EMPLOYEES

Employees for whom the tenure (specific period of time) of employment is mentioned in the Appointment Order are called Contract Employees.

4.PART TIME EMPLOYEE

A person who is employed to work for less than the normal period of working hours which is clearly specified in the Appointment Order is called as Part-time Employee.

APPOINTMENTS AND SCALES OF PAY

SCALES OF PAY:

Teaching Posts: Keeping the UGC/AICTE scales in view the Governing Council of the Institute will decide from time to time the Scales of Pay to be offered to the Teaching posts.

All other Posts: Scales as prescribed by the Governing Council from time to time

ALLOWANCES

Dearness Allowance & House Rent Allowance shall be adopted as decided by the Governing Council of the Institute from time to time.

INCREMENTS:

All services in a post on a time scale of pay shall count for increments in that time scale, unless and otherwise specifically mentioned contrarily.

Annual performance of teaching and Non-teaching staff is evaluated based on Self-Appraisal form submitted by staff by HOD, Principal and Chairman.

PROMOTION POLICY:

Promotions to higher position shall be considered on the basis of competency, past performance, qualification, merit & seniority basis. Under normal circumstances the senior most members of the staff shall be considered for promotion to the next higher level position, based on the eligibility and merit subjected to the vacancy and requirement. Hence, Promotion is not automatic and cannot be claimed by an employee as a matter of right. The institute will consider the UGC/AICTE/JNTUH rules and regulations for promotions in case of teaching positions.

CONFIRMATION: When any Employee completes his/her probation, or extended period of probation, the Appointing Authority shall decide whether his/her probation is completed satisfactorily, and If it is so decided, he/she may be regularized in the post in which he/she completes the Probation.

TERMINATION OF SERVICE:

1. If any employee is not regularized after the period of probation and his/her probation also is not formally extended, he/she may be apprised of the reasons therefor within 6 months and he/ she shall be deemed to have been continued on a temporary basis and his/her services may be terminated by the Appointing Authority by giving one months' notice.
2. The Appointing Authority shall have the power to terminate the services of any employee appointed on tenure basis without any notice.
3. The Governing Council shall have power to terminate the services of any regular employee by giving him/her three months' notice, if the member's retention in service is considered.

RESIGNATION:

1. A member of regular staff may resign from his/her post and terminate his/her engagement with the Institute by giving to the Appointing Authority 3 months' notice or by paying 3 months pay in lieu thereof.

b) Unless otherwise stated specifically in the terms of appointment an Employee on probation may terminate his/her engagement in the Institute by giving to the Appointing Authority one month notice or by paying one months' salary to the Institute in lieu thereof.

RETIREMENT:

The Age of Retirement of all members of teaching staff (faculty) shall be 60 years and in case of other staff it shall be 58 years. However, an Employee's services can be terminated by the Management even before his/her superannuation on the grounds of physical or mental infirmity, inefficiency or incapability to work, or if he/she outlived his/her utility.

LEAVE RULES FOR THE EMPLOYEES

Rules relating to the different kinds of leave that can be availed by a regular employee are described below:

- CASUAL LEAVE Applicable for all categories of staff
- VACATION: Applicable for all categories of staff
- EARNED LEAVE: Applicable for all categories of staff
- HALF-PAY LEAVE: Applicable only for Regular staff
- ACADEMIC LEAVE: Applicable for all categories of faculty.
- MATERNITY LEAVE: Applicable only for Regular staff
- COMPENSATORY CASUAL LEAVE: Applicable for all categories of staff

WELFARE MEASUREMENTS & GENERAL BENEFITS:

These benefits are applicable to the Regular and Contract Employees only.

- EMPLOYEE PROVIDENT FUND: All the employees of the Institute shall be covered by the Employees Provident Fund Act, subject to their salary ceiling limit.
- HEALTH INSURANCE: they are eligible for partial reimbursement of premium (as decided by the management from time to time) as against the premium paid by them towards the Health Insurance Policy taken by them on production of documentary evidence.
- GROUP GRATUITY SCHEME: All the Employees holding regular posts and drawing scale of pay will be covered by the Group Gratuity Scheme maintained by L I C of India at the cost of the Institute as per the rules of Payment of Gratuity Act in force.
- PERSONAL ACCIDENT POLICY: Applicable for all the employees
- E.S.I. BENEFIT: Non-Teaching staff of the Institute shall be covered by the ESI Benefit subject to their salary ceiling limit As per ESI Act.
- SUBSIDIZED TRANSPORTATION FACILITY: This facility is applicable for the staff for a nominal fee on all the bus routes operating in various parts of Hyderabad city
- INCENTIVES FOR Ph.D., AWARDED: Special allowance per month will be paid to faculty based on their Designation those who completed their Ph.D.,
- INSTITUTE IS OFFERING INCENTIVES INORDER TO ENCOURAGE PROFESSIONAL DEVELOPMENT: Institute of is offering incentives to publications in quality journals like SCOUPUS and other free journals in order to encourage professional development
- FINANCIAL SUPPORT TO ATTEND VARIOUS SEMINARS/WORKSHOPS: GNITS sponsors the Teaching by paying the Registration Fees to attend VARIOUS FACULTY DEVELOPMENT PROGRAMS (FDP)/ SEMINARS/WORKSHOPS/ Orientation /Refresher courses/STTPS.

Non-Teaching Staff will be paid while attending to skill development programs

- FINANCIAL SUPPORT TOWARDS MEMBERSHIPS OF PROFESSIONAL BODIES:The institute will pay up to 50% of the membership fee towards memberships of fee of professional bodies based on the eligibility criteria.
- STUDY LEAVE FOR PROFESSIONAL DEVELOPMENRR&D AND CONSULTANCY INCENTIVES: For Teaching staff Academic Leaves will be given to attend Seminars, Training Programs, Workshops &Symposiums and Non-Teaching staff for their higher studies according to GNITS Leave rules.
- R & D and Consultancy Incentives are provided as per the GNITS R&D and Consultancy Policy.

CODE OF ETHICS FOR TEACHERS:

- Advance the interests of the teaching profession through responsible ethical practices Regard themselves as learners and engage in continual professional development.
- Be truthful when making statement about their qualifications and competencies. Contribute to the development and promotion of sound educational policy.
- Contribute to the development of an open and reflective professional culture.
- Treat colleagues and associates with respect, working with them in a very congenial environment.
- Assist newcomers to the profession, disclosure is required by the law observes compelling professional purpose.

- Respect confidential information on colleagues.
- Speak out if the behavior of a colleague is seriously in breach of this code.

GENERAL RULES FOR ALL EMPLOYEES

The following clauses define the code of conduct for the employees of GNITS. They are equally applicable to both regular and contract employees.

1. Every Employee of the Institute shall be devoted to his/her duty and shall maintain absolute integrity, honesty, discipline, impartiality and a sense of propriety.
2. No Employee of the Institute shall behave in a manner which is unbecoming of such an Employee or which is derogatory to the prestige of the Institute.
3. No Employee of the Institute shall act in a manner which will place his/her official position under any kind of embarrassment.
4. No Employee of the Institute shall, in performing his/her official duties, act in a discourteous manner.
5. No Employee of the Institute shall, in his/her official dealings with the public and students, adopt dilatory tactics or willfully cause delays in disposal of work assigned to him/her.
6. No Employee of the Institute shall participate in any strike or similar activities including absence from duty without permission, hunger strike, etc; against the Management of the Institute

MISCONDUCT:

1. Without prejudice to the general meaning of the term misconduct, the following acts and / or omissions, which are illustrative and not exhaustive, shall be treated as serious misconduct.
2. Going on or participating in an illegal strike or abetting the same
3. Theft, fraud, breach of trust, or dishonesty by misappropriation of funds in connection with or damage to the property of the Institute or the property of another Employee/Office within the Institute premises
4. Collection or canvassing for the collection of any money, whatsoever, for purpose not authorized in writing by the Management within the premises of the Institute

CONTROL, DISCIPLINE AND APPEAL PROCEDURE FOR ENQUIRY

a) Whenever a case of misconduct or a case of indiscipline comes to the notice of the Administration, the accused Employee, with or without being kept under suspension depending on the severity of the incident, will be informed of the institution of enquiry along with the details of enquiry officer through a Memo asking him or her to appear before the Inquiry Officer at the place and time specified by the enquiry Officer.

b) The enquiry Officer appointed by the committee constituted by Principal shall be a person known for unbiased and impartial attitude and familiar with principles of natural justice.

c) The enquiry Officer should neither be a complainant nor a witness.

d) Based on the findings of inquiry a show-cause notice will be served on the accused keeping in view the principles of natural justice.

e) During any inquiry the delinquent is not entitled to engage a lawyer.

RECRUITMENT POLICY

The Head of the Department will put up the requirement for his/her respective department to the Management through Principal during the semester taking into account subject- wise teaching load calculation, and student-teacher ratio as per AICTE/NBA guidelines.

The Management then determines in consultation with Principal, whether the vacancy is to be filled through in-house staff selection or a new employee has to be selected. Regular vacancies shall be filled up through open advertisement in various newspapers only.

Minimum Qualification for Recruitments:

Minimum qualification, experience, research contributions, feedback and requisite training requirements for different levels for direct recruitment and promotions for the faculty members are as follows.

Qualifications for direct recruitment as an ASSISTANT PROFESSOR

1. Engineering / Technology

B.E. / B. Tech. / B. S. and M. E. / M. Tech. / M. S. or Integrated M. Tech. in relevant branch with first class or equivalent in any one of the degrees.

Qualifications for Faculties in Science and Humanities:

The qualifications for recruitment and promotions for faculty in the disciplines of Basic Sciences, Social Science and Humanities shall be as per the UGC Notification No. F.1- 2/2017(EC/PS) Dated 18th July, 2018 and UGC guidelines issued from time to time.

Note: Candidates who have done Ph.D. after the Bachelor's Degree from institution of National importance with GATE/ GPAT/ CEED shall be eligible for the post of Assistant Professor.

Qualifications for ASSOCIATE PROFESSOR

For Direct Recruitment

1. Ph.D. degree in the relevant field and First class or equivalent at either Bachelor's or Master's level in the relevant branch &
2. At least total 6 research publications in SCI journals / UGC / AICTE approved list of journals. &
3. Minimum of 8 years of experience in teaching / research / industry out of which at least 2 years shall be Post Ph.D. experience.

Qualifications for PROFESSOR:

Direct Recruitment

1. Ph. D. degree in relevant field and First class or equivalent at either Bachelor's or Master's level in the relevant branch. &
2. Minimum of 10 years of experience in teaching / research / industry out of which at least 3 years shall be at a post equivalent to that of an Associate Professor

c. At least 6 research publications at the level of Associate Professor in SCI journals / UGC/ AICTE approved list of journals and at least 2 successful Ph.D. guided as Supervisor / Co- supervisor till the date of eligibility of promotion. (OR)

d. At least 10 research publications at the level of Associate Professor in SCI journals /UGC / AICTE approved list of journals till the date of eligibility of promotion.

PROMOTIONAL POLICY

The College adopts the following steps for PROMOTIONAL PROCESS under Career Advancement Scheme (CAS)/Direct Recruitment for faculty positions:

Notification regarding recruitment of new faculty positions in various Departments duly approved by the Governing Body shall be published in two reputed News Papers of which, at least one should be an English National daily. A copy of the same shall be placed on the College website and collects the Requisitions from external faculty. In the case of CAS,an internal circular directing the faculty to apply for promotion along with the format is to be circulated.

For Direct Recruitment for promotion - after the Scrutiny of applications based on the eligibility criteria and depending on the number of eligible applicants, if necessary, a screening test may be conducted and the shortlisted candidates in the ratio of 1:4 shall be called for interview in the form of call letter either by post or by email. The responsibility of verification of eligibility of the applied candidates as per AICTE/PCI norms solely lies with the College.

In case all the shortlisted applicants for the post of Assistant/Associate Professors/Professors are previously selected through a duly constituted Selection Committee (with University nominee) and working in the same post and same Department in any institution under JNTUH, the college recruits such faculty through CAS.

C. Minutes of the meetings and action-taken reports (3)

Governing Body Minutes of Meeting

G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
AUTONOMOUS FOR WOMEN
SHAIKPET, HYDERABAD – 500 104

Minutes of the 28th meeting of the Governing Council & 6th meeting after Autonomous held on 26-12-2023 at 10.30 am in blended mode at GNITS conference hall

Members Present:

S.No.	Members Present	
1	Sri G.Raghava Reddy, Chairman, GNITS	Chairman
2	Smt.G.Sri Vidya Reddy, Vice Chairperson, GNITS	Member
3	Prof.G.Gopal Reddy, Pro-VC, Mahatma Gandhi Central University, Bihar	Member
4	Smt.P.Kiranmai, Corporate VP, HR, UPS India Technology Center	Member
5	Dr.K.Rama, Former Adviser, NAAC, Bangalore	UGC Nominee
6	Dr.V.Venkateswara Reddy, Professor, Civil Engineering, JNTUH UCESTH	University Nominee
7	Mr.G.Giribabu, Dy.Director, Commissioner of Tech. Education	State Government Nominee
8	Dr.K.Ramalinga Reddy, Professor, ETM & Dean, Academics	Member
9	Dr.M.Seetha, Professor, CSE & Dean, R & D	Member
10	Dr.K.Ramesh Reddy, Principal, GNITS	Member Secretary

Leave of Absence:

1. Sri P.Subba Reddy, Trustee, GPRCT – Member

Introduction:

Sri G.Raghava Reddy, Chairman of the Governing Council of G.Narayanamma Institute of Technology & Science, for women, Autonomous chaired the meeting and initiated the proceedings with a warm welcome to all the members and requested Dr.K.Ramesh Reddy, Principal to preside over the meeting as per the agenda.

Dr.K.Ramesh Reddy, Principal & Member Secretary, Governing Council started the proceedings of the meeting by welcoming all the members.

Item No.1 : Review and approval of the minutes of the previous meeting held on 21-12-2022.

Minutes of the 27th meeting of the Governing Council of GNITS held on 21-12-2022 and action taken report were presented by the Principal.

All the members confirmed the previous Governing Council meeting minutes.

Item No.2: Principal's Report.

The principal briefed the activities and achievements of the institution since last Governing Council meeting:

1. Academic Approvals by AICTE & JNTUH
   a. AICTE Approval for the academic year 2023-24 vide South-Central/1-3866639755/2023/EOA Date: 10/06/2023
   b. JNTUH Affiliation for the academic year 2023-24 from JNTUH, Hyderabad vide Lr.No.JNTUH/NAAC/Affili./25/2023-24 Dt.21-8-2023 & Dt.02-11-2023
2. NBA accredited 4 UG programs ECE, CSE, EEE & IT till 30-06-2024. Preparation for submission of NBA Application has been initiated under Tier –I for accreditation of 5 UG programs ECE, CSE, EEE, IT & ETE to submit in the month of April, 2023. 4 PG programs in DECE, CNIS, CSE & PEED up to 30/06/2025
3. Submission of NAAC SSR on 11-10-2023 for re-accreditation
4. Awards & Recognitions acquired by the institute: 2 awards
5. Prestigious visits and events conducted in the Institute
6. Admissions of UG & PG courses of GNITS & SoIM for AY 2023-24
7. Staff Details
   a) Staff appointments (Teaching : 34 & Non Teaching : 26)
   b) Staff who left the institution (Teaching : 18 & Non Teaching: 7)
8. Staff & Students Achievements
9. Infrastructure, Library (Volumes: 44909 ; Titles : 9606) & Other facilities
10. R & D and Incubation Center activities
11. Sports Achievements
12. Results, Higher Education & Placements details
13. Student Council Elections
14. Alumnae activities
15. Short Term & Long Term Objectives

The members congratulated and appreciated the Management and the staff members for the achievements.

Item No. 3: Ratification of minutes of 6th Academic Council meeting held on 04-11-2023.

The Principal briefed the minutes of 6th Academic Council meeting held on 04-11-2023 in the conference hall, GNITS.

The members noted and ratified the minutes of 6th Academic Council meeting.

Item No.4: Ratification of B.Tech and M.Tech student admissions AY 2023-24.

The Principal presented the details of admissions (99.3%) of B.Tech and M.Tech branch wise and category wise for the AY 2023-24 at I year (894 + 59 (EWS Quota) and II year level (Lateral Entry) (84 + 8(EWS) + 11(filled against 2022 vacancies of EEE). The total student strength of GNITS (UG: 3824; PG:60) & SoIM (31) as on date - year wise was also informed to the members.

The members ratified the B.Tech and M.Tech student admissions for the AY 2023-24.

Item No.5: Approval of admissions made under Foreign Nationals / Gulf quota/ Overseas Citizen of India in AY 2023-24.

The Principal informed the members that we have got approval from AICTE to make admissions in B.Tech under Foreign Nationals / Gulf quota / Overseas Citizen of India from the AY 2023-24. (15% supernumerary seats). 5 students admitted under FN/Gulf quota / OCI; 1 admitted under PMSSS; 1 admitted under CGN.

The members ratified the admissions made in B.Tech under FN/Gulf/OCI for the AY 2023-24.

Item No.6: Approval of proposed increase in intake / addition of new courses in B.Tech from the AY 2024-25.

The Principal proposed the increase in intake in the following courses in B.Tech and to start the New Programme in Management; Course: Business Administration; Degree: Under Graduate in Business Administration (BBA) with an intake of 120 from the academic year 2024-25

S.No.	Course	Current Intake	Proposed Intake
1	Computer Science & Engineering	240	240 + 60 = 300
2	Compute Science & Engineering (Data Science)	60	60 + 60 = 120

The Members approved the proposed increase in intake and Introduction of Off-campus from the AY 2024-25.

Item No.7: Approval of sanctioned posts for the AY 2023-24.

The Principal informed that the present total faculty strength is 239. Professors: 21 (9%); Associate Professors: 26, (10%) and Assistant Professors: 192 (81%). Required faculty student ratio as per AICTE is 1: 20 and existing faculty student ratio is 1: 17.

The members noted and ratified the sanctioned posts for the AY 2023-24.

Item No.8: Ratifications of appointment of Deans and Heads of the Departments.

The Principal informed the members that, to decentralize the work, seven new Dean positions have been created. The existing Heads of the Departments were designated as Deans and Sr. Professors in the departments have been appointed as Heads of the Departments. The names of newly designated seven Deans and seven Heads of the Departments have been presented.

The following former Heads of the Departments / Professors have been designated as **Deans** with effect from 1-7-2023

S.No.	Name	Designation
1	Dr.K.Ramalinga Reddy, Professor ETE	Dean Academics
2	Dr.M.Seetha, Professor, CSE	Dean, R & D
3	Dr.I.Ravi Prakash Reddy, Professor, IT	Dean, Placements & Corporate Relations
4	Dr.B.Venkateshulu, Professor, ECE	Dean, Alumni Relations & Higher Education
5	Dr.N.Malla Reddy, Professor, EEE	Dean, Hostels & Admissions
6	Dr.N.Kalyani, Professor, CSE	Dean – Innovation & Incubation
7	Dr.P.Aparna, Professor, English	Dean- Student Affairs

The following Professors have been designated as **Heads of the Departments** with effect from 1-7-2023

S.No.	Name	Designation
1	Dr.S.Ramachatam, Professor, IT	HOD-IT
2	Dr.A.Sharada, Professor, CSE	HOD-CSE
3	Dr.O.Obulesu, Asst. Prof. CSD	HOD-CSM & CSD
4	Dr.K.Ragini, Professor, ECE	HOD-ECE
5	Dr.P.Ramakrishna Reddy, Professor, EEE	HOD-EEE
6	Dr.Rajkumar L Biradar, Professor, ETE	HOD-ETE
7	Dr.M.Madhavi Lata, Assoc. Professor, Mathematics	HOD-Humanities & Mathematics

The members noted and ratified the appointment of Deans & Heads of the Departments.

Item No.9: Approval of staff recruitments & JNTUH ratifications since last meeting

The Principal presented the details of faculty (239) and non-teaching staff (143) branch wise & cadre wise. JNTUH ratifications (13) during the AY 2023-24.

Staff appointments made since the last meeting of the Governing council – Teaching & Non Teaching - **Teaching - 34; Non-Teaching - 26**

Staff who left the institution since the last meeting of the Governing council – Teaching & Non Teaching - **Teaching – 18; Non-Teaching - 7**

The members noted and approved the staff recruitments & JNTUH ratifications in the AY 2023-24.

Item No.10: Ratification of SSR submitted to NAAC for accreditation.

The Principal informed the members that as per NAAC regulations the institution can submit NAAC SSR after graduation of two autonomous batches. So, NAAC SSR was submitted on 11th October, 2023 for re-accreditation and change of grade. DVV clarifications raised have been submitted on 29th November, 2023. Pre-qualifiers of SSR were accepted on 12th December, 2023. NAAC Peer Team Visit is expected in the months of February / March, 2024.

The Members have noted and ratified the SSR submitted to NAAC and they anticipated that GNITS with excellent infrastructure and man power can achieve A++ grade.

Dr.K.Rama made the following suggestions with respect to NAAC

1) **To calculate publications per teacher. H- index and Citation index is reflected in the benchmark.**
2) **Advised to be very calculative, understand the process, review the bench marks which are disclosed.**
3) **The back end data comparison is done between earlier grade and present data submitted by the institution. She informed to be more cautious while presenting the data to NAAC peer team.**

She advised to focus more on NIRF ranking as it is gaining more momentum in terms of publication quality and admissions especially in engineering colleges. In this case, Q1, Q2 journal quality is reflected. Top 25 journals should come under Q1.

She appreciated for the drastic all round improvement in the activities and good achievements by the college.

Item No. 11: Review of R & D Activities.

The Principal presented the following R & D activities

a) Total faculty with Ph.D : 75
b) Faculty submitted Ph.D. thesis : 5
c) Faculty pursuing Ph.D.'s : 86
d) No. of research scholars guided by our professors : 37
e) Papers published by staff-department wise : Journals : 195; Conferences : 88
SCI/SCOPUS/WoS Journals: 58 Peer reviewed / Indexed Journals: 177
f) Books published : 312
g) Workshops/Conferences/Seminars/Training programmes attended by Staff : National: 262; International : 34
h) Workshops / Conferences / Seminars / Training programmes conducted National: 51: International: 3
i) Funds received : Rs.2,20,80,729/- since inception & 65,22,924/- AY 2023-24
j) Patents : Total : 44 (Granted: 8; Published: 36) ; 48 - submitted for publication
k) Active Memorandum of Understandings – 39

The members reviewed the improvement in R & D activities.

Mrs P.Kiranmai appreciated the research capability of faculty of EEE department and advised to focus on other industry ship activities like alternate energy segment and electric vehicles to improve the department on par with other departments with respect to faculty and student achievements. Patents are worth mentioning under staff achievements.

In this regard, Dr.M.Seetha, Dean, R & D, informed the members that we are initiating MOU with RICH which is looking into sustainability and e-vehicles. Department of EEE is coming forward actively and has signed 3 MOU/s in energy sector. She assured that we are on the direction of making collaborations with related companies and increase activities in future and motivate faculty and students for more number of achievements for the benefit of the institution.

Members appreciated the same

Item No. 12: Review of Incubation Centre Activities.

The principal presented the activities of Innovation and Incubation cell and 9 start ups identified under AIC-GNITS.

Dr.K.Rama suggested to keep updated about the AICTE regulations as the council is planning to make Innovation Cell mandatory in curriculum for each student to participate in the activities for all the engineering colleges and appreciated GNITS for establishing Innovation and Incubation Cell.

Mrs P.Kiranmai mentioned about an institute called FOUNDERS which operates from IIIT, Hyderabad. They give training about how to create an enterprise by industry entrepreneurs. This can be considered for initial few start ups. She also said about Succeed Innovation Fund which is doing phenomenal job during the last few years. Lot of start ups come in make a pitch in this fund. It is one among the top 20 in the country today. It is a SEBI regulated fund bringing in people at an early seed capital stage. She suggested to get associated with these and bring in some of the start up founders of GNITS who are into AI related, ATAL innovation etc.,

The members reviewed the activities of Innovation & Incubation Cell and appreciated.

Item No.13 : Review of infrastructure & other facilities

The Principal informed the members that the total exiting built up area is 26563 Sq.Mts. and construction of two blocks - Incubation & Innovation block with 3981 Sq.Mts. The Vice chairperson informed the members that the Innovation block is expected to be completed by March, 2024 and New Academic block with a built up area 17772 Sq.Mts. expected to be completed by August, 2024. The total built up area after completion of new blocks will be 48,316 Sq.Mts. (80%) of the area is being added to the present existing area.

Other facilities like library, IT infrastructure, Power back up have also been updated to the members.

The members noted and appreciated the Management for the initiative to increase the built up area as per requirements.

Item No.14 : Review of Results, Higher Studies & Placements.

The Principal presented a) Results analysis of both B.Tech & M.Tech (all years) b) The activities conducted for encouraging students for pursuing higher education and number of students who have opted for higher education from last five academic years c) Placement details of 2023 graduated batch (86.85%) and 2024 graduating batch (46.92% placed till date) and companies offering placements to GNITS d) Internships – 2023.

The members have suggested the following:-

Dr.K.Rama suggested to make thorough analysis of results which may impact placements. Early intervention and remedial measures may be taken for better performance by the students.

Mrs P. Kiranmai advised to motivate students to acquire job skills with regard to premium tools like Salesforce, Servicenow and an enterprise resource management tool called workday. The students who work on the above tools are paid very high in the market.

She advised to explore the companies like E&Y, DBS & AMD who are expanding and financial majors like Thompson and Reuters and S &P.

EEE students may be exposed to Scandinavian countries like Norway, Iceland etc., which are doing well in sustainability measures, alternate energy research.

Item No.15 : Review of Student Council elections.

The Principal informed about the new initiative in GNITS i.e. the conduct of Student Council elections. The main motto is to involve the students in administrative activities of GNITS.

The elected Student Council for AY 2023-24 has been approved by the members.

Item No.16 : Review of Sports Activities.

The Principal briefed about the sports activities and achievements by GNITS. He informed that as part of Ek Bharat Shresth Bharat initiative by the Government of India 2 staff members Dr.MVL Surya Kumari, Physical Directress and Mrs Bhageswari Ratkal, Asst. Prof. CSE and seven students visited BHU, Varanasi, Uttar Pradesh. They met Padma Awardees and were inspired.

The members reviewed the sports activities and appreciated the 5P's - Paryatan (Tourism), Parampara (Traditions), Pragati (Development), Parapar Sampark (People-to-people connect), and Prodyogik (Technology) acquired by the students.

Item No.17 : Review of Alumnae Activities.

The Principal presented the Alumnae activities conducted during AY 2023-24 and about the Bengaluru Alumnae meet held on 09-12-2023. Planning to conduct 2024 Alumnae meet in USA. Informed that the alumnae data base and the revenue generated has been increased from past 6 months.

The members made the following suggestions:-

1) **Prominent Senior Alumnae who are active and devote their time may be identified and nominated as Governing Body member and involve them in administrative activities of the college.**
2) **Successful Alumnae may be invited as Chief Guests / Guests of Honour for the college events.**
3) **Alumnae leadership may be encouraged to tap funds for the infrastructure development of the college**
4) **From 2026 onwards, plan to celebrate Silver Jubilee from 2001 graduated batch onwards. The initiation for this may be started from this year. Pull some active alumnae from each batch and conduct meetings, so that they can pool more benefits for the institution on their name or batch name as majority of them may be well settled by now.**
5) **The faculty when they visit foreign countries may try to meet Alumnae and encourage them for active participation.**

Item No.18 : Approval of Budget estimates for 2023-24.

The Budget estimates for the financial year 2023-24 were presented by the Principal. An amount of Rs.2,35,08,120/- has been sanctioned towards budget for 2023-24 by the Management to various departments.

The members approved the Budget estimates for AY 2023-24.

Item No.19 : Approval of audited statement of accounts for the financial year 2022-23.

The Principal explained the Audited Statement of Accounts for the financial year 2022-23.

INCOME (IN LAKHS)	EXPENDITURE (IN LAKHS)
4238.40	4561.09

- RECURRING EXPENDITURE - 3544.20 (83.62%)
- NON RECURRING EXPENDITUE - 1016.88 (23.99%)
- SALARIES - 2795.72 (65.96%)
  - TEACHING STAFF - 2161.98 (77.33%)
  - NON – TEACHING STAFF - 633.73 (22.67%)

The members approved the Audit Report of the financial year 2022-23

Item No.20: Any other matter

i) **Approval of B.Tech Minor Degree & B.Tech Honors Programs.**

The Principal informed that JNTUH has given approval to offer B.Tech. Honors and B.Tech Minor Degree Programs at III year I Semester from the AY 2022-23. Around 45 students from the branches of EEE, ECE and ETE have opted and they are awarded minor degree along with major degree from 2024 graduating batch.

The Members approved the B.Tech Minor Degree and B.Tech honors Programs.

i a) The strategic plan from 2023-24 to 2027-28 has been discussed and approved by the members.

ii) **Approval of Relaxation of Credits for the students promoted from AY 2022-23 to AY 2023-24**
The Principal informed the members that the credits have been relaxed and grace marks have been added as per instructions of JNTUH for promotion of students from AY 2022-23 to AY 2023-24.

The Members approved the Relaxation of Credits for student promotions.

iii) The Principal informed the members that IPR Policy and Innovation & Startup Policy are drafted adopting National Innovation & Startup Policy guidelines and will be in force from the AY 2023-24. This will enable the Innovation & Incubation ecosystem to run smoothly and to mentor students towards entrepreneurship.

The members approved IPR Policy and Innovation Startup Policy from the AY 2023-24.

The Chairman, Vice Chairperson and the Principal conveyed thanks to all the members of the Governing Council for their valuable suggestions and extending support for the successful running of the Institution.

CHAIRMAN

CHAIRMAN
G. Narayanamma Institute of Technology & Science (For Women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.

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College Code : 25

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE

(AUTONOMOUS) (For Women)

(Sponsored by G. Pulla Reddy Charities Trust, Hyderabad)
Accredited by NBA (UG : ECE, EEE, CSE & IT, PG : CSE, CMS, PEED) & NAAC,
NIRF Ranking 2022: Rank Band in Engineering : 251-300
Approved by AICTE & Affiliated to JNTUH

REF:GNITS/AC/2023 Dt. 31/10/2023

MEETING NOTICE

Sub:- Meeting of the 6th Academic Council of G.Narayanamma Institute of Technology & Science (For Women), Autonomous, Shaikpet, Hyderabad – 500 104 - Reg.

* * *

The 6th meeting of the Academic Council of G.Narayanamma Institute of Technology & Science (For women), Autonomous, Shaikpet, Hyderabad – 500 104 is scheduled on **04/11/2023 (Saturday) at 3:00 p.m.** at the college campus.

AGENDA

1. To Review last Academic Council Meeting Minutes
2. To Approve Academic Calendars of A.Y 2023-24
3. To Approve R-22 B.Tech Programme Course Structure & Syllabus for 3rd and 4th Years
4. To Approve Changes in Academic Regulations
5. To Approve Grace marks Provision in R22 UG Programs
6. To Approve Results Processing Committee Formation
7. To Approve One Time Chance Exams
8. To Approve Re-admitted Students Substitute Subjects
9. Implementation of Attendance based Detention and Credit Based Detention from the A.Y.2023-24 in line with JNTUH orders and extending concessions if any as per the JNTUH rules
10. Any other matter

We request you to make it convenient to attend the meeting. You will be paid TA, DA and sitting allowance as per rules in force.

Your confirmation of attendance will be highly appreciated.

MEMBER SECRETARY
ACADEMIC COUNCIL, GNITS

1. Dr.K.Ramesh Reddy, Principal, GNITS, Chairman
2. Dr.M.Madhavi Latha, Sr Prof of ECE, JNTUH UCESTH
3. Dr. O B V Ramanaiah, Sr Prof of CSE, JNTUH UCESTH
4. Dr. A Aruna Kumari, Prof. of ME, JNTUH UCESTH
5. Dr.G.Venkateswarlu, Prof. OUCOE, Hyderabad
6. Mr B.S.S.Prasad, Delivery Manager, Infosys, Hyderabad
7. Mr Ch.Lakshman Kumar, Site Head, Quest Diagnostics, Hyderabad
8. Mr K.Raji Reddy, Advocate, Hyderabad
9. Dr K.Ramalinga Reddy, Dean-Academics & Chairman, BOS, Dept of ETM
10. Dr.M.Seetha, Dean-R&D & Chairman & BOS, Dept of CSE,CSM,CSD
11. Dr.I.Ravi Prakash Reddy,Dean-Placement & Corporate Relations & Chairman, BOS, Dept of IT &CST
12. Dr.B.Venkateshulu, Dean-Alumni Relations & Higher Education & Chairman, BOS, Dept of ECE
13. Dr.N.Malla Reddy, Dean-Hostels & Admissions & Chairman, BOS, Dept of EEE
14. Dr.P.Aparna, Dean-Student affairs & Chairman, BOS, Dept of H&M
15. Dr.T.Charan Singh, HOD & Chairman, BOS, Dept of BS
16. Dr.G.Annapurna, Coordinator-PG Studies, Prof. of EEE
17. Dr.M.Kalyani, Dean-Innovation & Incubation, Prof. of CSE
18. Dr.Rajkumar L.Biradar, Prof & HOD of ETM
19. Dr.M.Nagaveni, Sr.Asst. Prof. Mathematics, H & M
20. Dr.G.P.Prasada Reddy, Prof. of Mech. Engg.,& Controller of Exams, GNITS, Member Secretary

PRINCIPAL
G. Narayanamma Institute of Technology & Science (For women)
(AUTONOMOUS)
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RIF:GNITS/AC/2023 Dt. 04/11/2023

MINUTES OF MEETING

Sub:-Minutes of Meeting of the 6th Academic Council of G.Narayanamma Institute of Technology & Science (For Women), Autonomous, Shaikpet, Hyderabad – 500 104 - Reg.

* * *

The 6th meeting of the Academic Council of G.Narayanamma Institute of Technology & Science (For women), Autonomous, Shaikpet, Hyderabad – 500 104 was held on **04/11/2023 (Saturday) at 3.00 p.m.** at the college campus.

Minutes

1. To Review last Academic Council Meeting Minutes.
2. To Approve Academic Calendar of A.Y 2023-24
3. To Approve R-22 B.Tech Programme Course Structure & Syllabus for 3rd and 4th Years
4. To Approve Changes in Academic Regulations (R22-CBCS & PG)
5. To Approve Grace marks Provision in R22 UG Programs
6. To Approve Results Processing Committee Formation
7. To Approve One Time Chance Exams
8. To Approve Re-admitted Students Substitute Subjects
9. Implementation of Attendance based Detentive and Credit Based Detention from the A.Y 2023-24 inline with JNTUH orders and extending concessions if any as per the JNTUH rules
10. Any other matter

The following members were Present in the meeting

S.No	Name	Signature
1	Dr.K.Ramesh Reddy, Principal, GNITS, Chairman	
2	Dr.M.Madhavi Latha, Sr Prof of ECE, JNTUH UCESTH	
3	Dr. O B V Ramanaiah, Sr Prof of CSE, JNTUH UCESTH	
4	Dr. A Aruna Kumari, Prof. of ME, JNTUH UCESTH	
5	Dr.G.Vasaranaan, Prof. OUCOE, Hyderabad	
6	Mr B.S.S.Prasad, Delivery Manager, Infosys. Hyderabad	
7	Mr Ch.Lakshman Kumar, Site Head, Quest Diagnostics, Hyderabad	
8	Mr K.Raji Reddy, Advocate, Hyderabad	
9	Dr.K.Ramalinga Reddy, Dean-Academics &Chairman, BOS, Dept of ETM	
10	Dr.M.Seetha, Dean-R&D &Chairman, BOS, Dept of CSE	
11	Dr.J.Ravi Prakash Reddy,Dean-Placement, & Chairman, BOS, Dept of IT	
12	Dr.B.Venkateshula, Dean-Alumini& Higher Studies & Chairman, BOS, Dept of ECE	
13	Dr.N.Malla Reddy, Dean Hostels& Admissions &Chairman, BOS, Dept of EEE	
14	Dr.P.Aparna, Dean-Student affairs& Chairman, BOS, Dept of H&M	
15	Dr.T.Charan Singh, HOD & Chairman, BOS, Dept of BS	
16	Dr.G.Annapurna, Coordinator-PG Studies , Prof. of EEE	
17	Dr.N.Kalyani, Dean-Innovation & Incubation , Prof. of CSE	
18	Dr.Rajkumar L.Biradar, Prof & HOD of ETM	
19	Dr.M.Nagasree, Sr.Asst. Prof. Mathematics, H & M	
20	Dr.G.P.Pranala Reddy, Prof. of Mech. Engg.& Controller of Exams, GNITS, Member Secretary	

MEMBER SECRETARY, ACADEMIC COUNCIL, GNITS

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MINUTES OF THE MEETING OF 6TH Academic Council held on November 04TH, 2023 from 3.00 P.M to 5.00 PM.

MEMBER PRESENT

S.NO	Name and designation
1	Dr.K.Ramesh Reddy, Principal, GNITS, Chairman
2	Dr.M.Madhavi Latha, Sr Prof of ECE, JNTUH UCESTH
3	Dr. O B V Ramanaiah, Sr Prof of CSE, JNTUH UCESTH
4	Dr. A Aruna Kumari, Prof. of ME, JNTUH UCESTH
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20	Dr.G.P.Pranala Reddy, Prof. of Mech. Engg.& Controller of Exams, GNITS, Member Secretary

Members absent : NIL

Chairman welcomed all the members to the 6th meeting of Academic Council held on November 4th, 2023 at GNITS. Thereafter, formal agenda items were taken up and the following matters were considered, deliberated upon and decisions taken are as under:

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8-1-297/2/1, Shaikpet, Hyderabad - 500 104, Telangana
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2	Dr.M.Madhavi Latha, Sr Prof of ECE, JNTUH UCESTH
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Members absent : NIL

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6.1 Review of last Academic Council meeting minutes.

- Principal presented about the previous academic council minutes.

6.2 Academic calendars of B.Tech and M.Tech Programmes for the Academic year 2023-2024

- Academic Calendars of B.Tech I,II,III and IV year programmes and M.Tech I and II year were presented before the Council for Approval.
- Council approved the academic calendars for the B.Tech(4 Years) and M.Tech(2 Years) programmes for the academic year 2023-2024.

ACADEMIC CALENDAR (2023-2024)

IV B. Tech-I Sem

Commencement of 1st Semester Class Work	10-07-2023
1st Spell of Instructions	10-07-2023 To 02-09-2023 (8 Weeks)
First Mid Term Examinations	04-09-2023 To 09-09-2023 (1 Week)
2nd Spell of Instructions (Including Dussehra Recess)	11-09-2023 To 11-11-2023 (9 Weeks)
Dussehra Holidays	22-10-2023 To 28-10-2023(1 Week)
Second Mid Term Examinations	13-11-2023 To 18-11-2023 (1 Week)
Preparation & Practical Examinations	20-11-2023 To 25-11-2023 (1 Week)
End Semester Examinations	28-11-2023 To 09-12-2023 (2 Weeks)

No of Working days: 90

IV B. Tech-II Sem

Commencement of 2nd Semester Class Work	**18-12-2023**
1st Spell of Instructions	18-12-2023 TO 10-02-2024 (8 Weeks)
First Mid Term Examinations	12-02-2024 TO 17-02-2024 (1 Week)
2nd Spell of Instructions	19-02-2024 TO 20-04-2024 (9 Weeks)
Second Mid Term Examinations	22-04-2024 TO 28-04-2024 (1 Week)
Preparation & Practical Examinations	29-04-2024 TO 04-05-2024 (1 Week)
End Semester Examinations	06-05-2024 TO 18-05-2024 (2 Weeks)

No of Working days: 90

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ACADEMIC CALENDAR (2023-2024)

III B. Tech-I Sem

Commencement of 1st Semester Class Work	31-07-2023
1st Spell of Instructions	31-07-2023 To 23-09-2023 (8 Weeks)
First Mid Term Examinations	25-09-2023 To 30-09-2023 (1 Week)
2nd Spell of Instructions (Including Dussehra Recess)	02-10-2023 To 02-12-2023 (9 Weeks)
Dussehra Holidays	22-10-2023 To 28-10-2023(1 Week)
Second Mid Term Examinations	04-12-2023 To 09-12-2023 (1 Week)
Preparation & Practical Examinations	11-12-2023 To 16-12-2023 (1 Week)
End Semester Examinations	18-12-2023 To 30-12-2023 (2 Weeks)

No of Working days: 90

III B. Tech-II Sem

Commencement of 2nd Semester Class Work	**02-01-2024**
1st Spell of Instructions	02-01-2024 TO 02-03-2024 (9 Weeks)
First Mid Term Examinations	04-03-2024 TO 09-03-2024 (1 Week)
2nd Spell of Instructions	11-03-2024 TO 04-05-2024 (8 Weeks)
Second Mid Term Examinations	06-05-2024 TO 11-05-2024 (1 Week)
Preparation & Practical Examinations	13-05-2024 TO 18-05-2024 (1 Week)
End Semester Examinations	20-05-2024 TO 01-06-2024 (2 Weeks)
Commencement of IV B.Tech-I Sem Class work	01-07-2024

No of Working days: 90

II B. Tech-I Sem

Commencement of 1st Semester Class Work	11-09-2023
1st Spell of Instructions (Including Dussehra Recess)	11-09-2023 To 11-11-2023 (9 Weeks)
Dussehra Holidays	22-10-2023 To 28-10-2023(1 Week)
First Mid Term Examinations	13-11-2023 To 18-11-2023 (1 Week)
2nd Spell of Instructions	20-11-2023 To 13-01-2024 (8 Weeks)
Second Mid Term Examinations	17-01-2024 To 21-01-2024 (1 Week)
Preparation & Practical Examinations	22-01-2024 To 27-01-2024 (1 Week)
End Semester Examinations	29-01-2024 To 10-02-2024 (2 Weeks)

No of Working days: 90

PRINCIPAL
G. Narayanamma Institute of Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.

Academic Calendar 2023-24

M. Tech I Year – I Semester

Commencement of I[st] Semester Class Work	09-10-2023
I[st] Spell of Instructions (Including Dussehra Recess)	09-10-2023 To 09-12-2023 (9 Weeks)
Dussehra Holidays	22-10-2023 To 28-10-2023(1 Week)
First Mid Term Examinations	11-12-2023 To 16-12-2023 (1 Week)
2[nd] Spell of Instructions	18-12-2023 To 17-02-2024 (9 Weeks)
Second Mid Term Examinations	19-02-2024 To 24-02-2024 (1 Week)
Preparation & Practical Examinations	26-02-2024 To 02-03-2024 (1 Week)
End Semester Examinations	04-03-2024 To 16-03-2024 (2 Weeks)

No of Working days: 90

M. Tech I Year – II Semester

Commencement of 2nd Semester Class Work	**18-03-2024**
I[st] Spell of Instructions	18-03-2024 To 11-05-2024 (8 Weeks)
Summer Vacation	**13-05-2024 To 25-05-2024 (2 Weeks)**
I[st] Spell of Instructions continuation	27-05-2024 To 01-06-2024 (1 Week)
First Mid Term Examinations	03-06-2024 To 08-06-2024
2[nd] Spell of Instructions	10-06-2024 To 03-08-2024 (8 Weeks)
Second Mid Term Examinations	05-08-2024 To 10-08-2024 (1 Week)
Preparation & Practical Examinations	12-08-2024 To 17-08-2024 (1 Week)
End Semester Examinations	19-08-2024 To 31-08-2024)
Commencement of II M.Tech-I Sem Class work	03-09-2024

No of Working days: 90

M. Tech II Year – I Semester

Commencement of I[st] Semester Class Work	11-09-2023
I[st] Spell of Instructions (Including Dussehra Recess)	11-09-2023 To 11-11-2023 (9 Weeks)
Dussehra Holidays	22-10-2023 To 28-10-2023(1 Week)
First Mid Term Examinations	13-11-2023 To 18-11-2023 (1 Week)
2[nd] Spell of Instructions	20-11-2023 To 20-01-2024 (9 Weeks)
Second Mid Term Examinations	22-01-2024 To 27-01-2024 (1 Week)
Preparation & Practical Examinations(Project Phase-1)	29-01-2024 To 03-02-2024 (1 Week)
End Semester Examinations	05-02-2024 To 10-02-2024 (1 Week)

No of Working days: 90

PRINCIPAL
G. Pullaiah College of Engineering & Technology
(AUTONOMOUS)
Kurnool-518 452

Academic Calendar 2023-24
M. Tech II Year – II Semester

Commencement of 2nd Semester Class Work	**12-02-2024**
First Spell of Project Work Phase-II	12-02-2024 To 20-04-2024 (10 Weeks)
Project Review-IV	22-04-2024 To 27-04-2024 (1 Week)
Second Spell of Project Work Phase-II	29-04-2024 To 20-07-2024 (12 Weeks)
Project Review-V	22-07-2024 To 27-07-2024 (1 Week)
Date of Eligibility for Thesis Submission	05-08-2024

Dr Madhavilatha madam suggested to show 90 working days besides 16 weeks of instruction days. Hence academic calendars modified to reflect no of working days also.

6.3 Detailed syllabi of B.Tech.III & IV year programmes under B.Tech. CBCS R22 Academic Regulation for the batches admitted from the academic year 2022-2023 onwards:

- B.Tech. III & IV year Course structures and detailed syllabi of III Year and IV Year of B.Tech the following programmes to be offered under B.Tech. Choice Based Credit System, and R 22 academic regulation for the 2022-2023 admitted from the academic year 2022-2023 were presented before the committee.

1. B.Tech. (Electrical & Electronics Engineering) - (EEE-02)
2. B.Tech. (Electronics & Communication Engineering) – (ECE-04)
3. B.Tech. (Computer Science & Engineering) - (CSE-05)
4. B.Tech. (Information Technology) - (IT-12)
5. B.Tech. (Electronics Telematics Engineering) – (ETE-17)
6. B.Tech. (Computer Science Technology) - (CST-36)
7. B.Tech (Computer Science & Engineering (Artificial Intelligence &Machine Learning) - (CSM-66)
8. B.Tech (Computer Science & Engineering (Data Science) –(CSD-67)

Council approved Course Structure and syllabi of all the courses of the aforementioned B.Tech. III and IV year programmes under B.Tech. R22 Academic regulations.

Council also approved few changes in course structure of B.Tech-R22 , III Year and IV Year which were approved in 5th academic council on 15-11-2022.

6.4 Changes in R22 academic Regulations of B.Tech & M.Tech

For Students who failed to secure minimum marks in Internal Exams:

Principal stated that as JNTUH modified Academic Regulations(Kept in portal with dated 26-10-2023) , GNITS also will implement the changes in re-registration of the students who failed to secure minimum marks in Internal Examinations

A student can re-appear for subjects in a semester:

If the internal marks secured by a student in the Continuous Internal Evaluation marks for 40 (Sum of average of two mid-term examinations consisting of Objective & descriptive parts, Average of two Assignments & Subject Viva-voce/PPT/ Poster presentation/ Case Study on a topic in the concerned subject) are less than 35% and failed in those subjects.

They may re-appear for all those subjects registered in that semester in which the student is failed. The student has to re-appear for CIE and SEE as and when offered.

A student must re-register for the failed subject(s) for 40 marks within four weeks of commencement of the classwork in next academic year. His Continuous Internal Evaluation marks for 40 obtained in the previous attempt stand cancelled. The student has to obtain fresh set of marks for 40 allotted for CIE (Sum of average of two mid-term examinations consisting of Objective & descriptive parts, Average of two Assignments & Subject Viva-voce/PPT/ Poster presentation/ Case Study on a topic in the concerned subject). Head of the Dept. will take care of this.

Students need not attend classes, but they have to re-appear for mid exams and end exams whenever conducted.

Council approved the above modifications in R22 academic regulations of B.Tech & M.Tech

6.5 Provision of Grace Marks:

Principal proposed the provision of Grace Marks to B.Tech in R22 regulations of 0.15 % of Total Marks

Grace Marks –for R22 Regulations

Degree	Total of Max marks	Grace Marks- 0.15 %	Upper Bound marks
B.Tech-Regular (4 Years)	6200	9.30	10
B.Tech-Lateral Entry(3 Years)	4500	6.75	7

Council approved the above grace marks provision

6.6 Results Processing Committee formation:

Principal proposed the formation of Results Processing Committee as per the guidelines given by Director of Evaluation(University Examinations-JNTUH)

Results Processing Committee Members:

S.No	Member	Name
1	JNTUH Nominee	Dr K. Sahu Chatrapati –Prof of CSE & ACE
2	Principal	Dr K Ramesh Reddy- Prof in EEE
3	Controller of Examinations	Dr G P Prasada Reddy- Prof in Mech.
4	Add. Controller of Examinations	B V Prasad Babu- Assoc Prof in IT
5	HOD-EEE	Dr P Rama Krishna Reddy
6	HOD-ECE	Dr K Rajni
7	HOD-CSE	Dr A Sharada

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8	HOD-IT	Dr S Ramchuran
9	HOD-ETE	Dr Rajkumar Bhadar L
10	HOD-CSM&CSD	Dr O Obulesu
11	HOD-HM	Dr M Madhavilatha

Council approved the above Results Processing Committee

6.7 Principal proposed to conduct One Time chance Exams for the students who have completed 10 years in B.Tech and 6 years in M.Tech and still having backlogs, in Dec 2023/Jan 2024.

- Council Agreed to conduct One Time Chance Exams in the Month of Dec 2023/Jan 2024

6.8 Re-admitted Students Substitute subjects approval :

Principal proposed for approval the Substitute subjects of Re-admitted Students.

Few of the students listed below Re-admitted from JNTUH-R16 regulations to GNITS R18 regulations. Some of the subjects repeated, respective BOS chairmen suggested substitute subjects. Council approved the Re-admitted students substitute subjects as listed below.

i) Re-admitted from JNTUH-R16 to GNITS-R18

REPEATED SUBJECTS LIST AND APPROVED SUBJECTS LIST (BY GNITS BOS)

1. 17251A0413 (N.ROHINI)

S.NO	Subjects Repeated	Substitute Subjects Recommended by GNITS-BOS Chair
1	BUSINESS ECONOMICS & FINANCIAL ANALYSIS(134AG)	Microprocessors and Microcontrollers(114BM) of 2-2 GNITS R18
2	CONTROL SYSTEMS(134AM)	Material Science (114BC) of 2-2 GNITS R18

2. 17251A04F0 (YAVAGARI SUPRAJA)

S.NO	Subjects Repeated	Substitute Subjects Recommended by GNITS-BOS Chair
1	BUSINESS ECONOMICS & FINANCIAL ANALYSIS(134AG)	Microprocessors and Microcontrollers(114BM) of 2-2 GNITS R18
2	CONTROL SYSTEMS(134AM)	Material Science (114BC) of 2-2 GNITS R18

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3. 17251A1714(KANDREGULA SADHVIKA)

S.NO	Subjects Repeated	Substitute Subjects Recommended by GNITS-BOS Chair
1	BUSINESS ECONOMICS & FINANCIAL ANALYSIS(134AG)	Material Science (114BC) of 2-2 GNITS R18
2	CONTROL SYSTEMS(134AM)	Microprocessors and Microcontrollers(114BM) of 2-2 GNITS R18

4. 17251A1739(LAKSHMI CHAITRA.P)

S.NO	Subjects Repeated	Substitute Subjects Recommended by GNITS-BOS Chair
1	BUSINESS ECONOMICS & FINANCIAL ANALYSIS(134AG)	Material Science (114BC) of 2-2 GNITS R18
2	CONTROL SYSTEMS(134AM)	Microprocessors and Microcontrollers(114BM) of 2-2 GNITS R18

5. 17251A0218(NEELAM EDIGA BHAVYA SREE)

Subjects Repeated : NIL

6. 16251A1220(KONDAPARTHI AMMULU)

Subjects Repeated : NIL

ii) Re-admitted from GNITS-R18 to GNITS-R22

ADDITIONAL SUBJECTS LIST TO MEET R22 AND APPROVED SUBJECTS LIST (BY GNITS BOS)

1) 21251A0295(B J HADHASA)
2) 21251A02A7(H YOGITHA)
   a) Design Thinking- 2 Credits
   b) Data Structures- 3 Credits
   c) Data Structures Lab-1.5 Credits

Council approved the above additional subjects for Re-admitted students

6.9. Detention based on attendance and credits

Principal proposed to implement the attendance based detention rules(in A.Y 2023-2024) and credit based detention rules from A.Y 2022-2023 to A.Y 2023-2024 as per the JNTUH academic regulations. If JNTUH extends any concession to students , same

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concession will be applicable to GNITS students in attendance and credit based detentions.

JNTUH on 01-11-2023 given concession of credits for promotion from III Year II Sem to IV Year I Sem :

B.Tech. / B.Pharmacy students are permitted to promote from III year II semester to IV year I semester without any credit requirement condition for the Academic Year 2023-24 only.

Similarly if JNTUH extends any concession for other years (From I Year II Sem to II B.Tech-I Sem and II Year II Sem to III Year I Sem), GNITS also will implement the same relaxations in credit based detentions during the A.Y : 2023-2024

Council approved the above relaxations in credit based detentions.

6.10 a) Principal presented Autonomous Results of the Academic year 2022-2023, both B.Tech and M.Tech.

- Council members expressed satisfaction over the results presented.

6.10 b) Principal Presented about the placements of the students in A.Y : 2022-2023 and A.Y: 2023-2024

Council members expressed satisfaction over the placements achieved by GNITS

The meeting concluded with vote of thanks to the Academic Council Members.

6.10 c) Condonation of shortages of attendance during A.Y : 2022-2023

Principal proposed to condone the shortage of attendance (Between 65 % to 74 %) of the students during Academic Year 2022-2023 as per the list given below.

S.No	Course	Year-Sem	No of Students Registered	No of students attendance condoned
1	B.Tech	1-1	884	12
2	B.Tech	1-2	879	62
3	B.Tech	2-1	989	77
4	B.Tech	2-2	984	95
5	B.Tech	3-1	904	74
6	B.Tech	3-2	904	104
7	B.Tech	4-1	729	92
8	B.Tech	4-2	728	72
9	M.Tech	1-1	26	11
10	M.Tech	1-2	24	1
11	M.Tech	2-1	30	15
		Total	7081	615 (8.69 %)

Academic Council condoned the shortage of attendance of the students during the A.Y:2022-2023.

6.10 d) Detained in the Year due to shortage of attendance: A.Y : 2022-2023

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Principal informed the council about the students detained due to lack of attendance in the A.Y 2022-2023 as per the list given below.

S.No	Course	Year-Sem	No of Students Registered	No of students attendance condoned
1	B.Tech	1-1	884	4
2	B.Tech	1-2	879	3
3	B.Tech	2-1	989	4
4	B.Tech	2-2	984	3
5	B.Tech	3-1	904	0
6	B.Tech	3-2	904	0
7	B.Tech	4-1	729	1
8	B.Tech	4-2	728	1
9	M.Tech	1-1	26	2
10	M.Tech	1-2	24	0
11	M.Tech	2-1	30	0
		Total	7081	18 (0.25 %)

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10.1.4 Decentralization in working and grievance redressal mechanism (5)

Institute Marks : 5.00

10.1.4 Decentralization in working and grievance redressal system (5)

A. **Organizational Structure, List of Administrative Committees and Administrative Heads who have been delegated powers for taking administrative decisions (1)**

Fig:10.1.4: Organization Structure

Table B.10.1.4.1. List of faculty members who are administrative/decision makers for various assigned jobs.

S.No	Name	Position & Member of Various committee
1	Dr.K.Ramesh Reddy	Principal –Administration
2	Dr.K.Ramalinga Reddy	Dean Academics Governing Body Member BoS Chairperson NBA Coordinator College Academic Committee College Academic Council
3	Dr. M.Seetha	Dean-Research & Development BoS Chairperson Governing Body Member College Academic Committee College Academic Council
4	Dr. B.Venkateshulu	Dean – Alumni Relations & Higher Education. BoS Chairperson College Academic Committee College Academic Council
5	Dr N Kalyani	Dean – Innovation & Incubation College Academic Committee College Academic Council
6	Dr.N.Malla Reddy	Dean – Hostels & Admissions BoS Chairperson College Academic Committee College Academic Council
7	Dr.I.Ravi Prakash Reddy	Dean – Placements & Corporate Relations Head of Department – Information Technology BoS Chairperson College Academic Committee College Academic Council

8	Dr.P.Aparna	Dean- Student Affairs BoS Chairperson College Academic Committee College Academic Council
9	Dr Jayashree S Patil	IOAC Co-ordinator
10	Dr. Raj Kumar L Biradar	Head of Department – Electronics & Telematics Eng. College Academic Committee College Academic Council
11	Dr. Sharada Adepu	Head of Department – Computer Science & Engineering College Academic Committee
12	Dr.S.Ramacharan	Head of Department – Information Technology College Academic Committee
13	Dr.P. RamaKrishna Reddy	Head of Department – Electrical & Electronics Eng. College Academic Committee
14	Dr.K.Ragini	Head of Department – Electronics & Communication Eng. College Academic Committee
15	Mr. M.V.Ramana Reddy	Head of Department – Mechanical Engineering BoS Chairperson College Academic Committee Purchase Committee
16	Dr. T.Charan Singh	Head of Department – Basic Sciences BoS Chairperson College Academic Committee College Academic Council
17	Dr.M.Madhavilata	Head of Department – Humanities & Management College Academic Committee
18	Dr.G.P.Prasad Reddy	Controller of Examinations College Academic Committee College Academic Council
19	Mr. T.V.Ram Mohan Reddy	Head of Department – Civil Engineering College Academic Committee
20	Dr.G.Annapurna	College Academic Council PG Coordinator
21	Ms.K.Bharata Lakshmi Devi	Librarian – Central Library Hostel Committee
22	Dr.M.V.L.SuryaKumari	Director – Physical Education
23	Mr Avadhani	Dean -Administrative Officer
24	Mr.P.Venkata Rami Reddy	Accounts Officer
25	Mr.G.N.B.Reddy	Training & Placement Officer
26	Dr P. Sree Sudha	InCharge, Alumni Association
27	Prof. Ch. Ganapathy Reddy	Nodal Officer –Antiragging Committee
28	Mr B.V.Prasad Babu	Addl. Controller of Examinations
29	Dr. K. Syamala Devi	Addl. Controller of Examinations

30	Dr.M.Aparna	Addl. Controller of Examinations
31	Dr.NVSL Narasimham	NSS Coordinator
32	Dr. Alakanandana	Grievance Cell

B .Specify the mechanism and composition of grievance redressal cell (1)

mechanism of grievance redressal cell

In compliance with AICTE regulations for addressing student grievances in a Technical Institution, GNITS has established a "Students' Grievance Redressal Committee". The Committee aims to redress the grievances lodged by the students with the highest standard of integrity, fairness, and confidentiality. The Committee comprises of staff members in different positions to investigate the nature and extent of grievances. The Committee conducts meetings based on the grievances received, with a minimum of 6 committee members including student representatives, and suggests appropriate actions for redressal. In cases where individuals are unwilling to appear in person, grievances may be submitted in writing in the Suggestion/ Complaint boxes installed in every block. Additionally, grievances may be submitted online. The Committee conducts inquiries and analyses the nature and pattern of grievances in order to propose a satisfactory solution.

Objectives of the Students Grievance Redressal Committee:

- To foster a responsive and accountable attitude among all stakeholders.
- To maintain a harmonious educational atmosphere in the institute.
- To support students who have been deprived of services offered by the College, to which they are entitled.
- To ensure effective resolution of students grievances with an impartial and fair approach.
- To uphold the dignity of the College by promoting a strife-free atmosphere through fostering cordial relationships among students and staff.
- Installation of suggestion/complaint boxes in all department blocks where students can anonymously submit grievances and suggestions for improving academics/administration.
- Advising students to respect each others rights and dignity, and to exhibit restraint and patience in times of conflict.
- Advising all staff to show affection towards students and refrain from vindictive behaviour for any reason.

Roles and Responsibilities:

- Processing all individual complaints and taking suitable action as per college norms.
- Forming/reviewing guidelines/policies for grievance redressal as required, in accordance with AICTE regulations.
- Conducting meetings as necessary to discuss relevant issues, in consultation with the Principal.
- Creating organization-wide awareness among stakeholders through awareness programs and displaying grievance registration mechanisms on the website and posters in prominent campus locations.

Mechanism for lodging complaints:

- Students may submit grievances in writing or via email to the respective department committee coordinators.
- Grievances may also be registered online at **https://gnits.almagrievance.com**
- The Students Grievance Redressal Committee will act upon cases forwarded with necessary documents and ensure proper resolution within a stipulated time frame.
- If students are not satisfied with the redressal, they may approach the Ombudsman at JNTUH directly, who will ensure speedy disposal of grievances within one month of receipt.

Exceptions:

- The Students' Grievance Redressal Committee shall not entertain grievances regarding:
- Decisions of the Executive Council, Academic Council, Board of Studies, and other administrative or academic committees constituted by the University.
- Decisions related to scholarships, fee concessions, medals, etc.
- Decisions made by the University regarding disciplinary matters and misconduct.
- University decisions on admissions to courses offered by the Institute.
- Decisions by competent authorities on assessment and examination results.

Table 10.1.4.2 Composition of Students Grievance Redressal Committee Constitution:

S.No	Name	Designation	Dept	Role
1	Dr.K.Ramesh Reddy	Principal	GNITS	Chairman
2	Dr.A.Alakanandana	Assoc.Prof	BS	coordinator
3	Dr.M.Nagasree	Asst.Prof	HM	Member
4	Mrs.Bhageshwari Ratkal	Asst.Prof	CSE	Member
5	Mrs.B.Narmada	Asst.Prof	EEE	Member
6	Dr.A.Naveena	Asst.Prof	ETE	Member
7	Mrs.K.Sridevi	Asst.Prof	IT	Member
8	Mrs.T.Srilatha	Asst.Prof	ECE	Member
9	G.Tanmayi	Student	CSE	Member
10	Yalala Vaishnavi	Student	ECE	Member
11	Namrata	Student	EEE	Member
12	D.Haritha	Student	ETE	Member

Faculty/Staff Grievance Redressal Committee

All India Council for Technical Education (AICTE) has notified All India Council for Technical Education Regulations, 2021 vide **F. No. 1-103/AICTE/PGRC/Regulation/2021** dated 22nd March, 2021 for establishment of faculty/staff members of grievance redressal mechanism for all AICTE approved Technical Institutions.

As per the above regulation Grievance Redressel Committee (GRC) is formed in the college to address the grievances of the Faculty/Staff Member. The objective of the Grievance Redressal Cell is:

To establish a mechanism that offers opportunities for addressing specific grievances of both currently appointed Faculty/Staff Members in any institution and individuals aspiring to join such institutions.

Table 10.1.4.3 Faculty/Staff Grievance Redressal Committee Constitution:

S.No	Name	Designation	Dept
1	Dr.K.Ramesh Reddy,	Principal	GNITS
2	Dr.A.Alakanandana,	Assoc.Prof	BS
3	Dr.M.Nagasree	Asst.Prof	HM
4	Mrs.Bhageshwari Ratkal,	Asst.Prof	CSE
5	Mrs.B.Narmada,	Asst Prof	EEE
6	Dr.A.Naveena,	Asst.Prof	ETE
7	Mrs.K.Sridevi,	Asst.Prof	IT
8	Mrs.T.Srilatha,	Asst.Prof	ECE

Objectives of Faculty/Staff Grievance Redressal Committee:

- To formulate the policy to investigate and review grievances of staff
- To investigate the causes of the grievances.
- To ensure effectual solution depending upon the gravity of the grievance.
- To take necessary action and implement them by the committee

The aggrieved can approach GRC in following ways:

- Personally approach and give their grievances to the Coordinator or any member of the committee.
- Send a mail to **https://gnits.almagrievance.com**
- Approach Head of the Institution wherein they will be subsequently guided to the GRC committee.
- Use Suggestion boxes installed in various places in the college.
- The details will be kept CONFIDENTIAL.

"Grievance" encompasses complaints lodged by Faculty/Staff Members who feel aggrieved regarding the following service-related matters:

i. Withholding or refusal to return any documents such as certificates, degrees, diplomas, experience certificates, relieving orders, or any other awards or documents submitted for the purpose of seeking employment in such institutions.

ii. Non-payment of salaries, wages, benefits, allowances, or other outstanding dues during their tenure or upon retirement/resignation, as applicable.

iii. Disparities in wages, benefits, and other compensation in comparison to other staff members in similar roles, positions, or levels of experience.

iv. Termination without providing a reason, notice, or memorandum.

v. Failure to provide the gratuity amount in accordance with the prevailing government rules upon resignation or retirement.

vi. Any other liability directly linked to their service that results in financial loss, harm, or trauma.

C. Sample Action taken report of the Representations for Student Grievance Redressal (3)

Anti Ragging Cell

Anti-Ragging Cell (ARC) was constituted in 2015 to curb ragging activities in the Institution as per the guidelines given by statutory bodies such as **AICTE, UGC, State Government and JNTUH**, Hyderabad. A committee was formed with both students and faculty as its members.

Prof Ch. Ganapathy Reddy, Professor, ECE Dept is the coordinator cum nodal officer.

The ARC aims to redress the grievances of students especially first year students. This cell strives to establish a conducive and safe environment in the institution for the freshly admitted students. The complaints received by the students are redressed with mutual consultations and based on the gravity of the complaint. The students are encouraged to file their complaints which are considered by the Anti-Ragging Cell. The meetings will be called by the Co-Ordinator to decide the course of action to be taken depending on the seriousness of the complaint. Table No.10.1.5.3 shows the List of Antiragging Cell members.

Table No.10.1.5.3 Antiragging Cell Members

S. No	Name	Designation	Department	Responsibility
1	Dr. K. Ramesh Reddy	Principal	EEE	Chairman
2	Prof. Ch. Ganapathy Reddy	Professor	ECE	Nodal Officer
3	Mr. V Radhakrishna	Asst. Prof	ECE	Member
4	Mrs V. Divya Raj	Asst. Prof	CSE	Member
5	Mrs. J. Mamatha	Asst. Prof	HM	Member
6	Prof. G. Gopinath	Asst. Prof	EEE	Member
7	Mrs. Ch. Sravanthi	Asst. Prof	IT	Member
8	Mr. Siva Sankar Namani	Asst. Prof	CSE (AI&ML)	Member
9	Mr. Hari Krishna	Asst. Prof	ETM	Member
10	Dr. S. Uday Bhasker	Asst. Prof	BS	Member
11	Ms. N. Hiranmai	Asst. Prof	Mech	Member

Aims & Objectives

- To prevent ragging and drugs in all its forms in GNITS.
- To propose adequate measures to the college authorities to CURB ragging and drugs in the
- To provide a safe and congenial environment for the students by instilling confidence in them.
- To initiate required steps in the Institution as per the instructions received from Director of Technical Education, JNTUH & UGC for their effective implementation.
- To display banners and posters about ill effects of ragging and drugs and the related consequences.
- To provide required guidance and counselling for the needy students.

Functions & Responsibilities

- Awareness creation & spreading.
- Conduction of seminars & events (1 or 2 per year) based on the situation
- Guidance & counselling as and when needed
- Regular monitoring all through the academic year.

- Ease of accessibility
- Public relations
- Immediate response to the complaints

Grievance Redressal mechanism:

I. In case of any ragging or drug incident, the aggrieved can:

1. Approach any member of Anti-Ragging/ Anti-drug Committee or Nodal Officer or any HOD or Principal.
2. Lodge her complaint through grievances drop box placed in all departments.
3. Send an email to nodal officer at arc@gnits.ac.in (mailto:arc@gnits.ac.in).

II. On receipt of a serious complaint related to ragging / drug, the following procedure will be followed:

1. A sub-committee will be formed under the chairmanship of Principal or any another senior faculty member which shall conduct a preliminary enquiry so as to ascertain the facts of the allegations by collecting circumstantial evidences as well as recorded statements of any witness/es including the complainant.
2. The inquiry shall be completed within a period of one week.
3. On completion of the inquiry, the sub-committee shall submit a report of its findings soon after completion of its inquiry.
4. The Principal shall then act upon the recommendations of the sub-committee with an intimation to the parents.

III. What are the possible actions that can be taken against respondent?

1. Oral or written Warning
2. Written apology/undertaking
3. Suspension from classes
4. Dismissal from Institution
5. Any other relevant actions as deemed fit by the committee

Internal Complaints Committee /Sexual harassment Committee/Women Protection cell:

https://www.gnits.ac.in/gnits-icc/ (https://www.gnits.ac.in/gnits-icc/)

The GNITS – Women Protection Cell aims:

- To uphold women's right to protection.
- To create a sense of security and dignity.
- To provide a platform for both students and women staff to address the gender issues related to discrimination, harassment and abuse.
- To organize various programs to disseminate information about gender related laws and rights for intellectual and emotional wellbeing of women.
- To conduct guest lectures, workshops and seminars to evolve right understanding and motivation to empower as better workforce for the nation.
- To encourage healthy interaction and working environment among the students and staff.
- To provide required guidance and counseling for the needy women.

Functions of the cell Internal Complaints Committee (ICC) has been constituted in the college campus for the women faculty & staff and the students and has been functioning in the formal sense from 1st August, 2017 to provide a safe environment for them for a healthy and an enhanced intellectual and professional work culture.

- In pursuance of UGC (Prevention, prohibition and redressal of sexual harassment of women employees and students in higher educational institutions) Regulations, 2015 read with Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and in partial modification of Office Order No. 449 dated 05.08.2016, and as per the instructions of the AICTE, GNITS ICC.
- (Internal Complaint Committee) has been constituted to address sexual harassment related complaints.
- The Internal Complaints Committee's major functions entail:
- Forceful implementation of the policies relating to the prevention of sexual harassment.
- Redressal of complaints filed within the scope of the laws, With fairness and without bias .
- Conducting awareness workshops/activities to educate all employees and students of the institute about: o Sexual harassment at workplace, its effects and laws against it o Filing a complaint with the ICC
- Annual report with Summary of the actions of ICC and the complaints filed
- Strive to resolve complaints by the aggrieved complainant, and
- Henceforth, recommend actions to be taken by the employee.

S.No	Name	Designation	Department	Responsibility
1	Dr. K. Ramesh Reddy	Principal	EEE	Chairman
2	Mrs. T. Aparna	Asst. Prof.	IT	Coordinator
3	Mrs. Bhagyasri Marreddy	Sr. Lawyer, Telangana High Court		External Member
4	Dr. P. Aparna	Dean, Student Affairs	HM	Member
5	Mrs. K. Swathi	Asst. Prof.	ECE	Member
6	Mrs. K. Swarna Latha	Asst. Prof.	EEE	Member
7	Mrs. Bhageshwari Ratkal	Asst. Prof.	CSE	Member
8	Mrs. T. Sunitha	Asst. Prof.	ETM	Member
9	Mrs. M. Srivalli	Asst. Prof.	BS	Member
10	Ms. N. Hiranmayi	Asst. Prof	Mech.	Member
11	Dr. M.V. L. Surya Kumari	PD	Sports	Member

Roles & Responsibilities of committee members

General Roles and Responsibilities:

- Dissemination of information and awareness generation (i.e. to create & communicate a detailed policy).
- To constitute a sub- committee at the departmental level comprising of faculty and student members for the welfare of women .
- Ensure that the members are trained in both skill & capacity in striving for an equal, safe and harmonious environment.
- To address and resolve grievances if any, on a timely basis.
- Prepare an annual report of the departmental women welfare activities and submit to the authorities.

The Internal Complaints Committee deals with sexual harassment and gender related issues , which are very sensitive and which need delicate handling. The aggrieved student / employee needs a secure environment where she can put forth her issue or complaint with courage. So it becomes the responsibility of the ICC to create a isolated environment where the complaint can freely express herself.

The aggrieved can approach ICC in following ways :

- Personally approach and give their grievances to the Coordinator or any member of the committee
- Send a mail to gnits.icc@gmail.com / aparna.tanam@gnits.ac.in
- Approach Head of the Institution wherein they will be subsequently guided to the ICC committee
- Use Suggestion boxes installed in various places in the college.

The following facilities are provided for ICC :

- For this purpose , ICC is set up in a separate room, where confidentiality can be maintained fully.
- An ICC cell has been set up in 2nd Floor , F Block.
- A notice board where the information regarding activities of the ICC can be displayed.
- A page on GNITS website through which the ICC can be reached.

On receipt of a complaint related to sexual harassment at work place , the following procedure will be followed:

- The committee members of ICC shall conduct a preliminary enquiry so as to ascertain the truth of the allegations by collecting documentary evidence as well as recording statements of any witness/es including the complainant.
- The inquiry shall be completed within a period of Maximum 90 days from the date of the complaint.
- On completion of the inquiry, the ICC shall provide a report of its findings to the employer within a period of maximum 10 days from the date of completion of inquiry and such report be made available to the concerned parties.
- If the allegations against the respondent are proved, it shall recommend punitive actions to be taken against the respondent to the employer.
- The employer shall act upon the recommendation within sixty days of receiving it.

10.1.5 Delegation of financial powers (5)

Institute Marks : 5.00

10.1.5. Delegation of Financial Powers

A. Financial Powers delegated to the Principal, Heads of Departments and relevant in-charges (2)

Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each of the assessment years.

The following are the financial powers delegated to the key members who are at various levels of administrative positions to carry out any regular activities of the Institute/Department.

Designation Financial Power (in Rs.)

Principal Rs. 1,00,000/-

HODs Rs. 25,000/-

A. **Demonstrate the utilization of financial powers for each of the assessment years (3)**

Evidence for Financial utilization by the Head of the Institute

Fig 10.1.5.1: Evidence for Financial Delegation by the Head of the Institution

Evidence for Financial utilization by the Head of the Department

Fig 10.1.5.2: Evidence for Financial Delegation by the Head of the Department

Fig 10.1.5.3: Evidence for Financial Delegation by the Head of the Department

Fig 10.1.5.4: Evidence for Financial Delegation by the Head of the Department

Fig 10.1.5.5: Evidence for Financial Delegation by the Head of the Department

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

10.1.6. Transparency and availability of correct/unambiguous information in public domain (5)

Response:

The institutions effective governance, leadership, and management are demonstrated by its long track record of delivering quality technical education without disruptions. This success is attributed to the responsive and efficient management. The Institution has its own website, URL is: www.gnits.ac.in (http://www.gnits.ac.in/).

The Institution ensures to publish their Vision, Mission and various Quality policy rules, achievements, Mandatory Disclosure as per AICTE etc., AISHE Certificates are available in the website. The administration of the institute operates through Academic and Administrative committees and other committees comprising faculty, non-teaching staff, and students as members. Information pertaining to these committees is transparently shared with all stakeholders through annual reports, notice boards, circulars, and the institutes website, ensuring accessibility at various levels.

The details of Teaching and Non Teaching staff published in the website also Student details such as intake and admitted details are available in each department portals.

Mandatory disclosures are uploaded to the website every academic year to ensure transparency. Additionally, the institute participates in the All India Survey for Higher Education annually, with the institutions information submitted to the Ministry of Human Resource Development (MHRD).

The Annual Quality Assurance Report (AQAR) is submitted to the National Assessment and Accreditation Council (NAAC) and is made available on the institutions website for transparency purposes.

Furthermore, all details regarding institutional accreditation, as well as reports from NIRF (National Institutional Ranking Framework) and ARIIA (Atal Ranking of Institutions on Innovation Achievements), are disseminated to stakeholders through the institutions website.

Parents have the option to access their wards details, including attendance and marks, through the institutions ecap.

Regular updates are made to the website to reflect various activities such as workshops, conferences, student activities etc.

Students academic information, such as attendance and results, is displayed on notice boards. Examination notifications and academic announcements are also posted on the website and notice boards.

Transparency is maintained across all administrative, academic, and non-academic units of the institute by involving staff and students in various committees at both institute and department levels.

The institutes academic calendar is accessible on the website using the link https://www.gnits.ac.in/academics/academic-calendar/ and hard copies are distributed to each staff and student.

Grievance links are readily available on the website to facilitate communication and address concerns.

Financial audited statements are transparently provided on the website, ensuring stakeholders have access to relevant financial information.

A. Information on the policies, rules, processes is to be made available on web site (2)

The Below tables**10.1.6.1.** gives the information about various policies published in the website.

Table 10.1.6.1. Policies and its website links

S.No.	Name of the Policy	Link
1	e-governance	https://www.gnits.ac.in/e-governance-policy/
2	HR POLICY	https://www.gnits.ac.in/about-us/service-rules/ (https://www.gnits.ac.in/about-us/service-rules/)
3	Admission Policy	https://www.gnits.ac.in/admission-policy/
4	Reservation Policy	https://www.gnits.ac.in/g-os-on-reservation/ (https://www.gnits.ac.in/g-os-on-reservation/)
5	**Code of Ethics and Conduct for Students**	https://www.gnits.ac.in/code-of-ethics-and-conduct-forstudents/
6	**Code of Ethics and Conduct for Staff**	https://www.gnits.ac.in/code-of-conduct/
7	Hostel Policy	https://www.gnits.ac.in/policy-2 (https://www.gnits.ac.in/policy-2)
8	Research & Consultancy Policy	https://www.gnits.ac.in/policy/#1648387248777-200488cf-d776 (https://www.gnits.ac.in/policy/#1648387248777-200488cf-d776)
9	Intellectual Policy	https://www.gnits.ac.in/policy/#1648387248793-ffde6def-7f0e (https://www.gnits.ac.in/policy/#1648387248793-ffde6def-7f0e)
10	Plagiarism Policy	https://www.gnits.ac.in/policy/#1648387345909-87479560-8512 (https://www.gnits.ac.in/policy/#1648387345909-87479560-8512)
11	Seed Policy	https://www.gnits.ac.in/policy/#1703845680575-911456ed-d535 (https://www.gnits.ac.in/policy/#1703845680575-911456ed-d535)

12	National Innovation and Start-up Policy	https://www.gnits.ac.in/policies/#1704709979795-9cb46e58-2460 (https://www.gnits.ac.in/policies/#1704709979795-9cb46e58-2460)
13	Recruitment Policy	https://www.gnits.ac.in/wp-content/uploads/2024/03/Placement-Policy.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/03/Placement-Policy.pdf)
14	Internship Policy	https://www.gnits.ac.in/wp-content/uploads/2024/03/Internship-Policy.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/03/Internship-Policy.pdf)
15	Alumnae Policy	https://www.gnits.ac.in/alumnae-policy/ (https://www.gnits.ac.in/alumnae-policy/)
16	Policy Guidelines For Awards/Prizes/ Medals	https://www.gnits.ac.in/students-scholarships-sponsored-by-the-institute-ngos/#1649321985554-28d5b959-e5f5 (https://www.gnits.ac.in/students-scholarships-sponsored-by-the-institute-ngos/#1649321985554-28d5b959-e5f5)
17	Green Campus Policy	https://www.gnits.ac.in/wp-content/uploads/2024/01/Green-Campus-Policy.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/01/Green-Campus-Policy.pdf)
18	Environment-and-Energy-Policy	https://www.gnits.ac.in/wp-content/uploads/2024/01/Environment-and-Energy-Policy.pdf (https://www.gnits.ac.in/wp-content/uploads/2024/01/Environment-and-Energy-Policy.pdf)
19	IT Maintenance Policy	https://www.gnits.ac.in/it-maintenance-policy/ (https://www.gnits.ac.in/it-maintenance-policy/)

B. Dissemination of the information about student, faculty and staff (2)

Student details are available in the Institutional website :

Link: https://www.gnits.ac.in/students-on-rolls/ (https://www.gnits.ac.in/students-on-rolls/)

Faculty and staff details are available in the individual departments and is as shown in the Table 10.1.6.2 along with the links below

Table 10.1.6.2

S.No	Name of the Department	Links
1	CSE (Faculty and Staff)	**https://www.gnits.ac.in/computer-science-engg/computer-science-engineering/staff-profile/** (https://www.gnits.ac.in/computer-science-engg/computer-science-engineering/staff-profile/)
2	ECE (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-2/** (https://www.gnits.ac.in/staff-profile-2/)
3	EEE (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-6/** (https://www.gnits.ac.in/staff-profile-6/)
4	IT (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-8/** (https://www.gnits.ac.in/staff-profile-8/)
5	ETE (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-7/** (https://www.gnits.ac.in/staff-profile-7/)
6	H & M (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-5/** (https://www.gnits.ac.in/staff-profile-5/)
7	BS (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-4/** (https://www.gnits.ac.in/staff-profile-4/)
8	Mechanical (Faculty and Staff)	**https://www.gnits.ac.in/staff-profile-3/** (https://www.gnits.ac.in/staff-profile-3/)
9	Admin Staff	**https://www.gnits.ac.in/administration/** (https://www.gnits.ac.in/administration/)

C. Mandatory disclosure as per AICTE/AISHE on the website. (1)

The below table **10.1.6.3.** provides the information about Mandatory Disclosure published in the website.

Table 10.1.6.3. Mandatory Disclosure and its website links

S. No	Academic Year	Link
1	2022-2023	https://www.gnits.ac.in/wp- content/uploads/2023/08/ MANDATORY-DISCLOSURE-2022-23.pdf (https:// www.gnits.ac.in/wp-%20content/uploads/2023/08/ MANDATORY-DISCLOSURE-2022-23.pdf)
2	2021-2022	https://www.gnits.ac.in/wp-content/uploads/2022/05/ mandatory-disclousres.pdf (https://www.gnits.ac.in/wp-content/uploads/2022/05/mandatory-disclousres.pdf)
3	2020-2021	https://www.gnits.ac.in/wp-content/uploads/2021/11/ Mandatory-Disclousres-2020-21-revised.pdf (https:// www.gnits.ac.in/wp-content/uploads/2021/11/ Mandatory-Disclousres-2020-21-revised.pdf)

The below table **10.1.6.4** gives the information about various policies published in the website.

Table 10.1.6.4 AISHE Certificates and its website links

S. No	Academic Year	Link
1	2022-2023	https://www.gnits.ac.in/aishe/ #1695620471181-2c7b0840-2b6e (https:// www.gnits.ac.in/aishe/ #1695620471181-2c7b0840-2b6e)
2	2021-2022	https://www.gnits.ac.in/aishe/#1710140019928-f6057e19-5cc7 (https://www.gnits.ac.in/aishe/ #1710140019928-f6057e19-5cc7)
3	2020-2021	https://www.gnits.ac.in/aishe/#1695620459631-b70109e3-18ce (https://www.gnits.ac.in/aishe/ #1695620459631-b70109e3-18ce)

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15) Total Marks 15.00

:

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2023-2024

Total Income 450832394				Actual expenditure(till…): 509611629			Total No. Of Students 3877
Fee	Govt.	Grants	Other sources(specify) Admission and	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
407641400	0	1596619	41594375	354280508	155331121	0	131444.84

Table 2 - CFYm1 2022-2023

Total Income 423840857				Actual expenditure(till…): 456109517			Total No. Of Students 3549
Fee	Govt.	Grants	Other sources(specify) Admission & O	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
368877176	0	686389	54277292	354420830	101688687	0	128517.76

Table 3 - CFYm2 2021-2022

Total Income 420209994				Actual expenditure(till…): 322533672			Total No. Of Students 3332
Fee	Govt.	Grants	Other sources(specify) Admission & O	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
380969495	0	3545872	35694627	279989359	42544313	0	96798.82

Table 4 - CFYm3 2020-2021

Total Income 332939264				Actual expenditure(till…): 288615346			Total No. Of Students 3136
Fee	Govt.	Grants	Other sources(specify) Admission & O	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
300743465	0	0	32195799	249437252	39178094	0	92032.95

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till
Infrastructure Built-Up	1500000	1421542	850000	8276904	1800000	1534725	3900000	3516483
Library	3200000	3135728	200000	1580447	2453000	2252370	1200000	918173
Laboratory equipment	1220000	1207163	200000	1852563	2700000	2657625	4200000	3772016
Laboratory consumables	1500000	1433781	1981000	1366313	1800000	1585366	1085000	850638
Teaching and non-teaching staf	3500000	2846007	2850000	2795719	2470000	2334963	2244000	2167592
Maintenance and spares	1000000	9743127	1500000	1365716	9500000	9273777	7800000	6697208
R&D	2800000	2673056	6000000	5443673	3000000	2808071	2000000	1640813
Training and Travel	800000	477252	800000	602595	200000	186217	200000	163106
Miscellaneous Expenses*	4000000	3729475	4200000	3349503	3200000	2897358	5100000	4687876
Others, specify	5697500	4959261	5412500	4924315	3092500	2811061	2082000	1796142
Total	**591475000**	**509611629**	**474106000**	**456109517**	**343078000**	**322533672**	**305805000**	**288615346**

10.2.1 Adequacy of budget allocation (5)

Institute Marks : 5.00

	Sanctioned Amount in Rs.	Utilized Amount in Rs.	%
CFY	59,14,75,000	50,96,11,629	86.16
CFY m1	47,41,06,000	45,61,09,517	96.20
CFY m2	34,30,78,000	32,25,33,672	94.01
CFY m3	30,58,05,000	28,86,15,346	94.38

- The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments.
- The components of budget include salaries of all staff, purchase of equipment's, establishment of new labs, maintenance of labs, research and development, training and placement, students activities and sports, purchase of books etc.
- Budget Committee of the department reviews the proposed budget and sends the budget proposals to the Institute Finance Committee.
- Formal budget estimates are prepared by each department and will be reviewed in HODs meeting with the Principal and Dean of Administration.
- After deliberations, formal budget is altered in departments and forwarded to Dean of Administration for preparing the final budget at the college level.
- The final budget is forwarded to Management through the Principal for approval and sanction.
- The Management, in consultation with the Governing Body and after due diligence, sanctions the budget which was proposed by the institute to fulfil the requirements of various departments.
- In case of further requirements of funds or unforeseen expenditures by the departments / sections, the financial proposals can be forwarded to Governing Council. The proposal may be positively considered based on the merit of the case.

10.2.2 Utilization of allocated funds (5) Institute Marks : 5.00

In general, budget preparation is carried out individually by Departments and Sections, encompassing various aspects such as:

- Development
- Infrastructure maintenance
- Research
- Consultancy
- Introduction of new courses
- Faculty requirements
- Training for faculty, staff, and students
- Initiatives in innovations and start-ups

These comprehensive proposals are then submitted for necessary budget approvals.

Once budgets are sanctioned, the utilization rate typically ranges between 85% to 95%, reflecting efficient budget planning and the prudent utilization of allocated funds.

This high utilization rate underscores the institutions commitment to effective financial management and the strategic allocation of resources to meet its objectives across multiple domains.

10.2.3 Availability of the audited statements on the institute's website (5) Institute Marks : 5.00

- GNITS conducts internal and external audits, which is an ongoing and continuous process.
- This internal audit team is responsible for reviewing and approving financial information and ensuring adherence to established policies.
- Their primary objective is to identify areas for improvement and verify the effectiveness of financial processes.
- In adherence to the stipulated provisions of the Income Tax Act, GNITS conducts an annual statutory audit performed by external auditors.
- These external auditors are appointed to conduct audits in accordance with Generally Accepted Accounting Policies, applicable Financial Reporting Frameworks, Statutory Provisions, and the standards on auditing issued by the Institute of Chartered Accountants of India (ICAI).

The Audited Financial Statements for each fiscal year of the institute are accessible on the institutes website as shown in the table 10.2.3.1.

Table 10.2.3.1 Financial Audited Statement for three Fiscal years.

S.No	Financial Year	Link
1	2022-2023	https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-report-2022-2023.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-report-2022-2023.pdf)
2	2021-2022	https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-REport-2021-2022_.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-REport-2021-2022_.pdf)
3	2020-2021	https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-REport-2021-2022_.pdf (https://www.gnits.ac.in/wp-content/uploads/2023/10/Audit-REport-2021-2022_.pdf)

10.3 Program Specific Budget Allocation, Utilization (30) Total Marks 30.00

:

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2023-2024

Total Budget 1458970		Actual expenditure (till…): 1392116		Total No. Of Students 621
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1193970	265000	1212377	179739	2241.73

Table 2 :: CFYm1 2022-2023

Total Budget 3024000		Actual expenditure (till…): 2953504		Total No. Of Students 609
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2864000	160000	2659445	294059	4849.76

Table 3 :: CFYm2 2021-2022

Total Budget 1444036		Actual expenditure (till…): 1349191		Total No. Of Students 595
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1259036	185000	1208021	141170	2267.55

Table 4 :: CFYm3 2020-2021

Total Budget 2446000		Actual expenditure (till…): 2476654		Total No. Of Students 608
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2191000	255000	2253339	223315	4073.44

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till
Laboratory equipment	492570	465899	253900	2329687	350912	310321	1816000	1879117
Software	501400	477763	225000	230000	808124	797700	300000	300000
Laboratory consumable	40000	39394	30000	30000	60000	30000	60000	65877
Maintenance and spares	125000	85425	70000	164044	70000	70000	70000	97150
R & D	200000	268715	100000	99758	100000	100000	75000	74222
Training and Travel	90000	44920	50000	92567	45000	30950	115000	50288
Miscellaneous Expenses*	10000	10000	10000	7448	10000	10220	10000	10000
Total	**1458970**	**1392116**	**3024000**	**2953504**	**1444036**	**1349191**	**2446000**	**2476654**

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

A.Quantum of Budget allocation for three years (5)

Every financial year, department of ECE proposes the budget by taking Lab requirements from Lab In-Charges, R&D In-Charge and Senior Faculty members and allocates quantum amount towards purchase of laboratory equipment, software, consumables, maintenance, research and development activities and other professional activities.

The budget towards the Laboratory establishments and Improvization in every year has been allotted to meet the following requirements:

- The HOD will instruct the concerned Lab In-charges to prepare a budget plan for the respective labs to give the budget proposal.
- The HOD after verification, will be forwarded to the Head of the Institute (Principal).
- The Head of the Institute (Principal) and the Chairman of the Institute calls for meeting with HoD and department budget In-charge for consideration and approval of the budget.
- The Institution monitors the requirement received from each department so that the budget will be allotted before the commencement of each financial year.
- The Lab In-charges provides the non-recurring and recurring budget in terms of enhancement of lab feature, laboratory equipment purchase and software for the lab.
- To meet academic requirement, the labs will be furnished with new equipment and new software license/upgradation of software.
- Existing labs were upgraded with facilities and the laboratories are periodically maintained and Calibration will be done on regular basis.

Department encourages research and development activities such as patent publication, publication of papers in Scopus Indexed Journals and involvement in writing project proposals. As an incentive, faculty will receive professional development allowances and also registration fee is reimbursed for Journals, Coursera and NPTEL Courses.

The faculty members are motivated to develop their industrial exposure by attending NPTEL and Coursera, faculty development programs, workshops and industrial lectures. The travelling expenses and registration fee towards conferences will be reimbursed to the faculty. A large amount was allocated and being used for the research affiliate program at IIITH.

B) Justification of Budget allocated for three years (5)

In the academic year 2023-2024, ECE department has proposed the total budget Rs 14,48,970 out of which Rs. 4,74,770/- for the acquisition of major equipment, Rs. 5,01,400 for the purchase of software, Rs 2,90,000 for Research and faculty development activities and Rs. 1,25,000 for periodic laboratory maintenance and accessory procurement.

In the academic year 2022-2023, proposed to allocate the total budget of Rs 30,24,000 out of which Rs. 24,86,000 for the upgrade of the system lab with high-end configuration PCs. Additionally, Rs. 2,25,000 is allocated for software procurement, Rs 1,50,000 for faculty and research activities and Rs. 70,000 is proposed for the maintenance.

In the academic year 2021-2022, a proposal was made to allocate Rs. 8,08,124 for MATLAB with complete suite and Mentor Graphics software for academic and research purposes. Moreover, Rs. 3,33,532 was proposed for the purchase of major equipment, Rs. 70,000 for lab maintenance and Rs 1,45,000 for Research and faculty development activities

In the Academic year 2020-2021, a proposal of Rs. 17,89,000 has been put forward for acquiring laboratory equipment aligned with the academic requirements, facilitating students lab experiments. Additionally, Rs. 3,00,000 was proposed for MATLAB complete suit software license purchase, Rs 1,90,000 for Research and faculty development activities.

10.3.2 Utilization of allocated funds (20) Institute Marks : 20.00

10.3.2. Utilization of allocated funds (20)

Every month ECE department conduct meetings with department lab committee and purchase committee, and keeps track of utilization of the budget during the financial year.

Allocated budget is utilized by the department towards the development of facilities required for carrying out research, teaching learning process, laboratory equipment, R&D, classrooms, and other miscellaneous expenses.

The budget allocated for the Department to fulfill its programs and Research endeavors meets requirements and the same is spent to an extent of 93% to 101%.

The percentage of Budget Utilization is given in Table 10.3.2.1

Table 10.3.2.1 Utilization of allocated funds for four years

Financial Year	Budget Allotted in Rupees	Budget Utilized in Rupee	Budget Utilization (%)
CFY (2023 – 2024)	**14,58,970**	**13,92,116**	**95.42**
CFY (2022 – 2023)	**30,24,000**	**29,53,504**	**97.67**
CFY (2021 – 2022)	**14,44,036**	**13,49,191**	**93.43**
CFY (2020 – 2021)	**24,46,000**	**24,76,654**	**101.25**

The budget allocation is adequate and is well spent to fulfill the program activities.

10.4 Library and Internet (20) Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

10.4.1. Quality of learning resources (hard/soft)

Availability of relevant learning resources including e-resources and Digital Library (7)

The quality of the learning depends on its originality and the standard resources available for learning. GNITS is having all such resources.

GNITS comprises of Central Library with Carpet area of 15044 Sq Ft along with six Departmental Libraries collectively support the teaching, research, and extension programs of the Institute. It has a well-equipped library with various learning resources for the stakeholders to access either in two modes - physical or online mode. GNITS library is fully automated with ECAP software. All in-house operations of the library are fully computerized using this Library management software, which also provides web-based access to the catalogue of the Central Library and some Departmental Libraries. It has a barcode-based automated library system and a wide variety of printed and electronic collections catering to the needs of all the students, faculty, and staff by using Barcode technology and the issue/return of books is processed by using this technology. Students and staff can find the books author wise, title wise, publisher wise. The Photocopy and scanning facilities are available at the library. The library committee which comprises the staff and students advises the librarian on improving the learning resources based on student requirements and academic and industry demands. The committee acts as a bridge between the users and the library. All the students are eligible to borrow 6 books. The library issues beyond the eligibility in specific cases based on requirement of the user.

The library has a good collection of **9687 Titles** and Volumes 45203 in Engineering & Technology, Humanities & Sciences. The collection also includes Encyclopaedias and Handbooks. The library has also been subscribing 115 peer reviewed journals, 16 Popular Magazines and E-journal databases as prescribed by AICTE from time to time.

Accessibility to students (3)

- The Central Library opens from 8.50 A.M to 8.30 P.M on all working days
- Sundays and Holidays 10A.M to 4.30 P.M.

MEMBERSHIPS

- DELNET MEMBERSHIP DELNET: for resources for borrowing books from libraries, getting photocopies of articles and for research and reference
- National Digital Library of India (NDLI) for having access to the free resources available at NDLI.
- E-SHODHSINDHU : eShodhSindhu :for subscribing e-resources in the prices negotiated by the consortium.

Other facilities

- Discussion rooms
- Own book reading
- Inter Library Loan (ILL)
- Library open behand the college timings
- Plagiarism check
- Nodal office @ Institutional level for Vidwan and IRINS

DIGITAL LIBRARY:

The Digital library which is well equipped was established in the Library and Information Center, Central Library with 30 computers. The Digital library has many forms and meanings in terms of information sharing and data security. CD's DVD's, online journals, scanned documents can be stored in the digital library and through LAN anyone can access information about the Digital Library. e-Journals and e- books gives information to anyone who desires it. e-Journals – 5000+, e – Books – 2,188 are available.

- Previous question papers for all the courses are available.
- Project reports and Institutional repositories are available.

The Digital Library supports the students and staff for self-learning through **IEEE, DELNET, J-GATE, NDLI**, **SWAYAM-NPTEL** Book Containing e-material. The library organizes awareness programs connecting these resources with the objective of raising awareness among the students, staff and research scholars on how to use the e - resources.

S. No	Description	Particulars
1	Availability of Digital Library Contents	SWAYAM NPTEL-Web/Video Lectures, SONET Lectures, e-books, e-Journals, e-Back Volumes, other Self-Learning Resources, Previous Question Papers Institutional repositories and archives. etc.
2	No. of Courses	08
3	Number of e-Books	2188
4	No. of e-Journals	5000+
5	Availability of an exclusive server	Yes
6	Availability over Intranet / Internet	Yes
7	Availability of Exclusive space / room?	Yes

Scholarly Journal Subscription:

Year	Number of Technical Magazines / Periodicals	Number of Total Technical Journals Subscribed	
		In Hard Copy	In Soft Copy
CFY m 2023-24	20	95	5000+
CFY m1 2022-23	28	98	5000+
CFY m2 2021-22	-	-	5000+

Plagiarism check software

TURNITIN & Drilbit - plagiarism softwares are available in the library. Academic regulations of the institution mandates plagiarism check for the thesis & research papers of B.Tech and M.Tech students. This service is maintained as per the guidelines of JNTU Hyderabad and the norms of UGC plagiarism policy 2018.

2021-2022

S. No.	Nature of Work	Program/Purpose	No.of checks conducted

1	Thesis work	M.Tech	81
2	Staff thesis	Ph.D	1
TotaL			**105**

2022-2023

S. No.	Nature of Work	Program/Purpose	No. of checks conducted
1	Final Year project reports	B.Tech	13
2	Thesis work	M.Tech	65
3	Staff thesis	Ph.D	2
4	International Conference papers	Conference	21
5	Research Papers	Faculty and Staff	51
6	Patent	Faculty	1
7	SERB Projects	Faculty	1
Total			**154**

2023-24

S. No.	Nature of Work	Program/Purpose	No.of checks conducted
1	Final Year project reports	B.Tech	12
2	Thesis work	M.Tech	60
3	International Conference papers	Conference	2
4	Research Papers	Faculty and Staff	17
5	SERB Projects	Faculty	5
Total			**96**

Library has introduced an online e-Library with the help of “KNIMBUS” platform. This can reach to the Students & Staff through the

- URL: https://gnits.knimbus.com/user#/home (https://gnits.knimbus.com/user#/home)

- All the students and staff has joined as members to utilize the online Library.
- The online-library contains e-journals subscribed by the institute; Syllabus based e-books, Old question papers, Lecture notes and ATAL-FDP video lectures.
- All the members who registered Online-Library can access all the materials through remote access. The library staff has conducted online training classes through Google meet and Microsoft Teams.
- Apart from the above staff & students are utilizing National Digital Library, N-, DELNET.
- Library on web(http://gnitslibrary.pbworks.com/ (http://gnitslibrary.pbworks.com/))

GNITS on IRINS (Indian Research Information Network System)

10.4.2 Internet (10)

Institute Marks : 10.00

10.4.2 Internet

Name of the Internet Provider:

M/s Pioneer E-Labs Limited, Hyderabad. GNITS is availing Internet Services from Class A Internet Service Provider (ISP) certified by Department of Telecom (DoT) India. Institute has 10G Fiber Module with Firewall.

A. Available bandwidth: (4)

1000 Mbps 1:1 Leased Line

Campus Network Control Center (CNCC) organizes the distribution of bandwidth and speed depending on the requirements. The bandwidth facility is improved from 500 Mbps to 1000 Gbps in the assessment period.

B. Wi Fi availability: (2)

Wi Fi facility is available throughout the campus. CISCO Controller and 115 Wi-Fi Access points are arranged throughout the corridors, labs, open spaces, outdoors, and All Hostel.

C. Internet access in laboratories, classrooms, library, and offices of all Departments (2)

Internet is accessible in all the laboratories, classrooms, library, and offices of all departments and in the college hostel. All computers in the campus are on the intranet and with internet facility. All the Staff members are provided with wired internet facility at Staff cabins. The entire campus is Wi-fi enabled.

D. Security mechanism (2)

Security arrangements: Using firewall protection by SOPHOS Firewall.

Sophos XG Firewall provides comprehensive next-generation firewall protection that exposes hidden risks, blocks unknown threats, and automatically responds to incidents.

Expose Hidden Risks; Superior visibility into risky activity, suspicious traffic, and advanced threats help you regain control of your networks.

Stop Unknown Threats: Powerful next-gen protection technologies like deep learning and intrusion prevention keep your organization secure.

Isolate Infected Systems: Automatic threat response instantly identifies and isolates compromised systems on your network to stop threats from spreading.

Annexure I
(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)
Program should specify 2-4 program specific outcomes.

PSO1	Research Activities: Develop abilities to successfully analyze, execute and synthesize hardware and software oriented mini and technical major projects in identified specializations and areas of interest, and enrich industry compatibility.
PSO2	Professional Outlook: Establish a good knowledge sharing network and peer connectivity through Professional Society Memberships, Conduct of seminars, Technical Events and Conference Paper Presentations, and earn prominence.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute
Name : DR.K.RAMESH REDDY
Designation : PRINCIPAL
Signature :

Seal of The Institution :

Place : HYDERABAD
Date : 28-03-2024 15:51:25