

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

SELF ASSESSMENT REPORT(TIER - I) FOR Electrical and Electronics Engineering

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:

- | | |
|--|---|
| <input type="radio"/> Institute of National Infortance | <input checked="" type="radio"/> Autonomous |
| <input type="radio"/> University | <input type="radio"/> Any other(please specify) |
| <input type="radio"/> Deemed University | |

5 Ownership Status:

- | | |
|---|--|
| <input type="radio"/> Central Government | <input checked="" type="checkbox"/> Trust |
| <input type="radio"/> State Government | <input type="checkbox"/> Society |
| <input type="radio"/> Government Aided | <input type="checkbox"/> Section 25 Company |
| <input checked="" type="radio"/> Self financing | <input type="checkbox"/> 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, ECI	Kurnool, Andhra Pradesh
The School of Innovation ar	2022	PGDM in Business Analytic	Hyderabad, Telangana Stati
G.Pulla Reddy Pharmacy C	1994	B.Pharmacy, Pharm-D, m.P	Hyderabad, Telangana Stati
G.Pulla Reddy Dental Colle	2006	BDS, MDS	Kurnool, Andhra Pradesh
G.Pulla Reddy Degree & PK	1994	UG (Bsc, BBA, B.Com) PG	Hyderabad, Telangana Stati

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 (Power Electronics and Electric Drives)	PG	2004	2004	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 (Power Electronics and Electric Drives)											
Academic Year						Sanctioned Intake					
2023-24						12					
2022-23						12					
2021-22						18					
2020-21						18					
2019-20						18					
2018-19						18					
B.Tech (Electrical and Electronics Engineering)	UG	1997	1997	40	Yes	128	Granted accreditation for 3 years for the period (specify period)	2021	2024	Yes	4
Sanctioned Intake for Last Five Years for the B.Tech (Electrical and Electronics Engineering)											
Academic Year						Sanctioned Intake					
2023-24						128					
2022-23						129					
2021-22						129					
2020-21						120					
2019-20						120					
2018-19						120					

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	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input type="checkbox"/> Shift1	<input type="checkbox"/> 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

Criteria 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	83.22
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	173.06
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	46.39
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	952

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

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

Vision of the institute	To become a center of quality education in Engineering and Technology for women empowerment.										
Mission of the institute	<p>To fulfill the academic aspirations of women engineers for enhancing their intellectual capabilities and technical competency.</p> <p>To Leverage Leading – Edge Technologies and cultivate exemplary work culture.</p> <p>To facilitate success in their desired career in the field of engineering to build a progressive nation.</p>										
Vision of the Department	To impart quality education in Electrical and Electronics Engineering for women empowerment										
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th> <th>Mission Statements</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>Imparting fundamental knowledge in Electrical and Electronics Engineering through well-qualified faculty</td> </tr> <tr> <td>M2</td> <td>Providing exposure to current technologies</td> </tr> <tr> <td>M3</td> <td>Providing hands-on experience to meet the expectations of the industry</td> </tr> <tr> <td>M4</td> <td>Facilitating individual and team activities to enhance personality and soft skills</td> </tr> </tbody> </table>	Mission No.	Mission Statements	M1	Imparting fundamental knowledge in Electrical and Electronics Engineering through well-qualified faculty	M2	Providing exposure to current technologies	M3	Providing hands-on experience to meet the expectations of the industry	M4	Facilitating individual and team activities to enhance personality and soft skills
Mission No.	Mission Statements										
M1	Imparting fundamental knowledge in Electrical and Electronics Engineering through well-qualified faculty										
M2	Providing exposure to current technologies										
M3	Providing hands-on experience to meet the expectations of the industry										
M4	Facilitating individual and team activities to enhance personality and soft skills										

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

PEO No.	Program Educational Objectives Statements
PEO1	To Excel in chosen career
PEO2	To work effectively as an individual and as a team member, keeping in mind the high importance currently being given to sustainability and emerging Green Energy Technologies in the current scenario
PEO3	To contribute to the community/society development through acquired knowledge and skills
PEO4	Continuous upgradation of knowledge and skills

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

1.3.A: Adequacy in respect of publication & dissemination.(3)

The Vision, Mission, and PEOs are posted on the COLLEGE WEBSITE (<https://www.gnits.ac.in/vision-mission-pos-4/> (<https://www.gnits.ac.in/vision-mission-pos-4/>)) in a prominent manner. In addition, the information is also disseminated through the following Channels:

1. By Display Boards
2. By Printing on Stationary
3. By Direct Communication
4. During Surveys

1.3.A1 – Display Boards with properly printed Vision, Mission, and PEOs are displayed in

- HOD and Faculty rooms
- Classrooms
- All Laboratories including Computer Centres
- Department Library
- Corridors and Staircase landings
- Notice Boards
- At all prominent places in the department.



Fig: 1.3.A1.1 Displaying Vision, Mission in HOD room



Fig: 1.3.A1.2 Displaying Vision, Mission in a Class room



Fig: 1.3.A1.3 Displaying Vision, Mission in control systems lab



Fig: 1.3.A1.4 Displaying Vision, Mission in department library



Fig: 1.3.A1.5 Displaying Vision, Mission in Corridor and Staircase landing Fig: 1.3.A1.6 Displaying Vision, Mission on Notice Board



Fig: 1.3.A1.7 Displaying Vision, Mission in prominent places

1.3.A2 – By printing on:

- Syllabus Books
- Periodical Departmental Technical Magazines
- On the back cover of Lab Records
- Lab Manuals
- Course Files



Fig: 1.3.A2.1 Printing Vision, Mission in Syllabus book



Fig: 1.3.A2.2 Printing Vision, Mission in dept technical Magazine



Fig: 1.3.A2.3 Printing Vision, Mission on Lab Records



Fig: 1.3.A2.4 Printing Vision, Mission in Lab Manuals

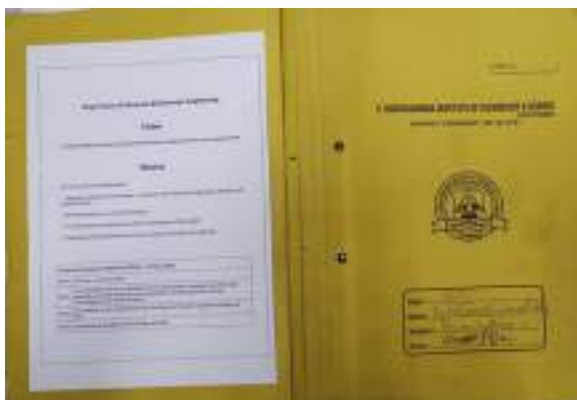


Fig: 1.3.A2.5 Printing Vision, Mission in Course Files

1.3.A3 – By Direct Communication – The Vision, Mission and PEOs of the department are also conveyed to various stakeholders on the following occasions:

- All faculty members at the start of every academic year/semester brief the students about the Vision, Mission, PEOs, and salient features of Outcome Based Education (OBE)
- The parents are briefed on orientation day and during Parent-Teacher Meetings.
- The Alumni are communicated during on Annual Alumni Interactions
- The industry/employers are communicated through presentations during industrial visits and during the frequent departmental industry-institute interactions like expert lectures etc.
- The information is also disseminated to various stakeholders during the meetings of faculty members, Program Assessment Committee (PAC) and Department Advisory Committee (DAC), and Board of Studies (BOS)

1.3.A4 - During Surveys - Finally the information is passed on during the conduction of different surveys with:

- Parents
- Students
- Employers
- Alumnae

1.3.B: Process of disseminating among stakeholders:(3)

The dissemination of Vision, Mission & PEOs among stakeholders is a very important aspect of OBE philosophy as the **attainment of Vision** entirely depends on the active & continuous cooperation of these stakeholders. The process followed by the EEE department consists

1. **Identification of stakeholders:** As already mentioned the key stakeholders are identified as students, Parents, faculty, employers, Alumnae & industry representatives.
2. **Communication channels:** The channels identified for dissemination of Vision, Mission & PEOs among stakeholders are

- Display Boards
- Printing on regularly used stationary such as records, syllabus books & technical magazines etc.

- Direct communication: In addition to the above-mentioned two channels, dissemination of Vision, Mission & PEOs is also carried out to faculty, students, parents, Alumni & employers during the formal/informal meetings conducted at various points of time in ar
- Regular surveys

3. Communication strategy:

- Preparation of clear & concise messages so that it doesn't cause any discomfort or inconvenience to the stakeholders in any manner.
- Frequency of communication: The frequency of communication is decided based on which stakeholder we are dealing with – whether monthly, bi-annual or annual.

4. **Continuous engagement:** The department maintains a regular & healthy relationship with students, parents & Alumni either through online or off-line meetings so that the stakeholders are in-line with department policies and affairs.

The above steps are illustrated through a block diagram as shown in Fig. 1.3.B.1

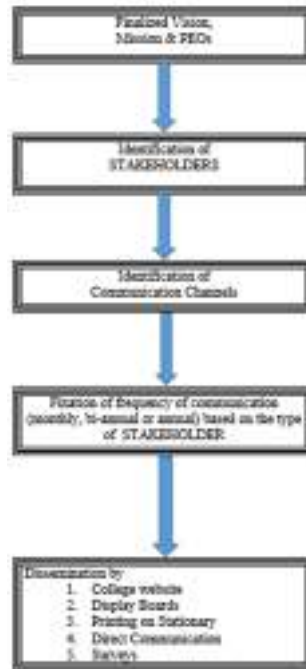


Fig. 1.3.B.1: Block Diagram to illustrate the process of dissemination of Vision, Mission & PEOs

1.3.C. Extent of Awareness on Vision, Mission & PEOs among stakeholders(9)

Awareness on Vision, Mission & PEOs among stakeholders is as much important as the attainment of Vision & PEOs themselves. To find out the extent of awareness on these, a Feedback form was prepared and shared with the stakeholders for their responses on the extent of a

- Are you aware that the department Vision, Mission & PEOs are displayed in classrooms, labs & Notice Boards?
- Have you understood the Dept Vision & Mission?
- Have you understood the Dept PEOs?

The responses are collected from the following stakeholders:

1. Students of EEE Dept
2. Faculty of EEE Dept
3. Employers

The responses collected are compiled and then analyzed. The category-wise analysis results are furnished below:

1.3.C1 – Analysis of Responses from students:

The bar chart in figure 1.3.C1.1 shows the analysis of Responses from students. It is observed that about 97.6% of students are aware that Vision, Mission & PEOs are displayed in classrooms, labs & Notice Boards etc. and also that they have understood Vision, Mission & PEOs of the department. Very negligible percentage (0.4%) of them have expressed ignorance that to about the presence of the display boards but not about the extent of awareness of Vision, Mission & PEOs of the department.

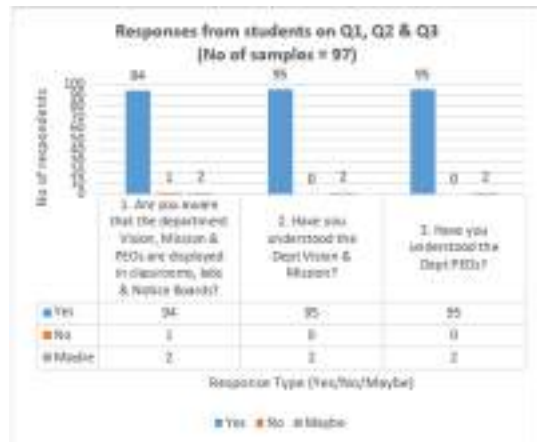


Figure 1.3.C1.1 – Bar chart to express the awareness levels among students

1.3.C2 – Analysis of Responses from Faculty:

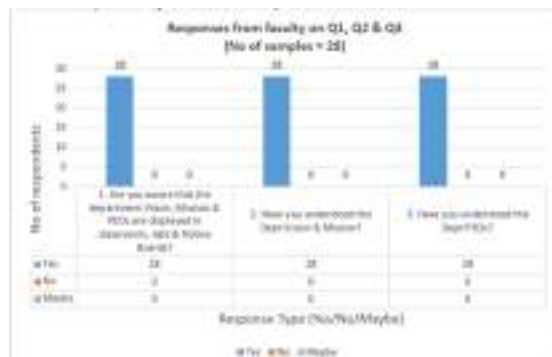


Figure 1.3.C2.1 – Bar chart to express the awareness levels among faculty

The bar chart in figure 1.3.C2.1 shows the analysis of Responses from faculty. It is observed that 100% of faculty are aware that Vision, Mission & PEOs are displayed in classrooms, labs & Notice Boards etc. and also that they have understood Vision, Mission & PEOs of that

1.3.C3 – Analysis of Responses from Employers:

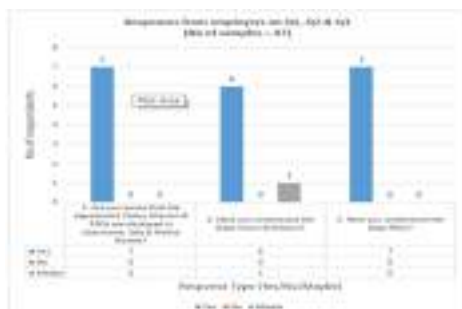


Figure 1.3.C3.1 – Bar chart to express the awareness levels among employers

The bar chart in figure 1.3.C3.1 shows the analysis of Responses from employers. It is observed that about 96% of employers are aware that Vision, Mission & PEOs are displayed in classrooms, labs & Notice Boards etc. and also that they have understood Vision, Mission & doubtfulness on this aspect. But none of the employers expressed ignorance on the extent of awareness of Vision, Mission & PEOs of the department.

Summary of analysis for Question 1 - Are you aware that the department Vision, Mission & PEOs are displayed in classrooms, labs & Notice Boards?

Total No of samples = 97+28+7 = 132
 No of 'YES' Responses = 94+28+7 = 129 (98%)
 No of 'NO' Responses = 1+0+0 = 01 (0.6%)
 No of 'MayBe' Responses = 2+0+0 = 02 (1.4%)

Summary of analysis for Question 2 - Have you understood the Dept Vision & Mission?

Total No of samples = 97+28+7 = 132
 No of 'YES' Responses = 95+28+6 = 129 (98%)
 No of 'NO' Responses = 0+0+0 = 00 (0.0%)
 No of 'MayBe' Responses = 2+0+1 = 03 (02%)

Summary of analysis for Question 3 - Have you understood the Dept PEOs?

Total No of samples = 97+28+7 = 132
 No of 'YES' Responses = 95+28+7 = 130 (98.5%)
 No of 'NO' Responses = 0+0+0 = 00 (0.0%)
 No of 'MayBe' Responses = 2+0+0 = 02 (1.5%)

OVERALL AWARENESS INDEX

Table 1.3.C.1 – Overall awareness index of stakeholders wrt extent of awareness

	YES (Total samples = 132)				NO (Total samples = 132)				MAYBE (Total samples = 132)			
	Studen ts	Facul ty	Emp	Tota l	Studen ts	Facul ty	Emp	Tota l	Studen ts	Facul ty	Emp	Tota l
Q1	94	28	7	129	1	0	0	1	2	0	0	2
Q2	95	28	6	129	0	0	0	0	2	0	1	3
Q3	95	28	7	130	0	0	0	0	2	0	0	2
Total %	% 'YES' = (388/396) = 98% (Very Good)				% 'NO' = (1/396) = 0.25% (Not GOOD)				% 'maybe' = (7/396) = 1.75% (OK)			

The pie-chart in Figure 1.3.C.1 indicates the **overall awareness index** in the department from the selected stakeholders in percentages.

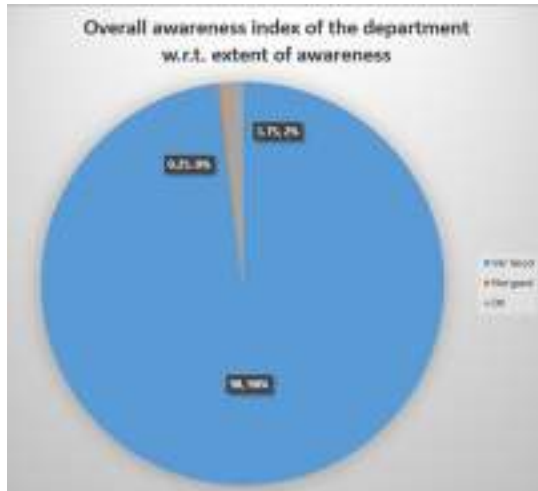


Figure 1.3.C.1 - Pie-chart indicating the extent of awareness among stakeholders

CONCLUSION: As can be seen the overall awareness index w.r.t. extent of awareness of Vision, Mission & PEOs among stakeholders is **about 98%** and hence it can be safely concluded that the extent of awareness of Vision, Mission & PEOs among stakeholders is **very mu**

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

1.4.A) Process for defining the Vision and Mission of the Department:(7)

There is a well-defined process for defining the Vision, Mission of the Department, and the PEOs of the program. Firstly, the HOD in consultation with the senior faculty of the department prepares a rough draft of the Vision and mission of the department in line with the V future scope of the department in mind and also the current societal requirements. Then after a series of consultations with various stakeholders the Vision and mission of the department are finalised and published. The following are the steps that are followed for defining the V

- A preliminary meeting with the senior faculty of the department (PAC) is convened. After due deliberations, a rough draft of the Vision, Mission of the Department, and the PEOs of the program are prepared in line with the already established Vision and mission of the I
- Taking the Vision and Mission of the institute as the basis, a series of discussions are carried out on formulating the Vision and mission of the department. Meanwhile, the views of all the stakeholders are taken.
- The accepted views are then analyzed and the Vision and the elements of the Mission of the department are identified in the subsequent meetings of departmental PAC consisting of Professors, and Associate Professors of the department.
- The Vision & Mission thus prepared are placed in the subsequent DAC meeting. The members of the DAC will approve the Vision and mission of the department with or without modifications.
- If no modifications are suggested by the DAC, a satisfactory Mission & Vision are published and disseminated to all the internal and external stakeholders as enumerated in 1.3.
- If serious modifications are suggested by the DAC, then another round of consultations take place and the revised Vision & Mission statements are once again placed before the next DAC meeting.
- The modified Mission & Vision statements are then placed before the Governing Council for necessary endorsements.
- The finalized Mission & Vision statements are then published and disseminated to all the internal and external stakeholders as enumerated in 1.3.

Figure 1.4.A.1 describes the process of framing Vision & Mission of the department in the form of a flow chart



Figure 1.4.A.1: Process for defining Vision & Mission of Department

1.4.B) Process for defining the PEOs of the Department(8):

Basically Program Educational Objectives (PEOs) are broad statements (which are measured 4 or more years after graduation) which describe the career and professional accomplishments that the program is preparing graduates to achieve. These are actually the derivative cc (or Program outcomes) suggested by NBA and also of the department vision, mission. The Program Educational Objectives are established in the same manner as Vision & mission of the department i.e., through a consultation process involving the core constituents viz. stud external stakeholders.

1. The internal stakeholders are
 - a. Management
 - b. Governing Council Body members
 - c. Faculty members
 - d. Students
2. The external stakeholders are
 - a. Alumni members
 - b. Parents

c. Industry members

The steps followed for establishing the PEOs are:

- A preliminary meeting with the senior faculty of the department (PAC) is convened. After due deliberations, a rough draft of the PEOs of the program are prepared.
- These are then critically analyzed by the department PAC by taking the Vision and Mission of the department as the basis.
- After a series of discussions within the department with the internal stakeholders, the PEO statements of the department are identified. The PEO statements thus prepared are placed in the subsequent DAC meeting by the Program coordinator.
- The members of the DAC will approve the Vision and mission of the department with or without modifications.
- If no modifications are suggested by the DAC, satisfactory PEO statements are published and disseminated to all the internal and external stakeholders as enumerated in 1.3.
- If any modifications are suggested by the DAC, then another round of consultations take place and the revised PEO statements are once again placed before the next DAC meeting.
- The modified PEO statements are then placed before the Governing Council for necessary endorsements.
- The finalized PEO statements are then published and disseminated to all the internal and external stakeholders as enumerated in 1.3.

The entire process is depicted in the form of a flow chart as shown in Fig. 1.4.B.1



Figure 1.4.B.1: Process for defining PEOs of Department

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

1.5A – Preparation of matrix of PEOs and elements of Mission statement:(5)

As mentioned in 1.1.A.2 above, the elements of mission statement are:

- Imparting fundamental knowledge in Electrical & Electronics Engineering through well-qualified faculty (M1)
- Providing exposure to current technologies (M2)
- Providing hands-on experience to meet the expectations of the industry (M3)
- Facilitating individual and team activities to enhance personality and soft skills (M4)

The following Table 1.5A.1 illustrates the correlation matrix between PEOs of the department and the mission elements.

Table 1.5A.1 – Correlation between PEOs & Mission statements

PEO Statements	M1	M2	M3	M4	Justification
1. Excel in Chosen career.	3	2	2	2	M1 very strongly supports to achieve PEO1, as the main objective is to impart core knowledge in Electrical & Electronics Engineering. M2, M3 & M4 also map with PEO1 somewhat strongly.
2. Work effectively as an individual & a team member keeping in mind the high importance being given to sustainability & the emerging Green energy technologies in current scenario.	2	3	2	3	M2 & M4 very strongly support to achieve PEO2 but M1 & M3 map somewhat strongly.
3. Contribute to the community/society development through acquired knowledge and skills	1	2	2	2	M2, M3 & M4 strongly support to achieve PEO3 but M1 maps somewhat weakly.
4. Continuous upgradation of knowledge and skills	2	3	3	2	M2 & M3 very strongly support to achieve PEO4 but M1 & M4 map somewhat strongly.

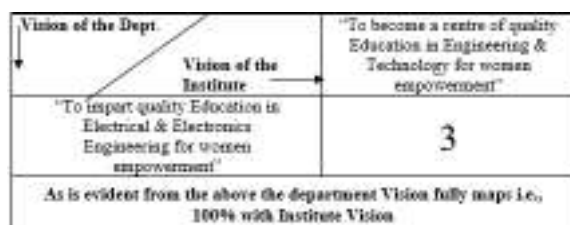
1.5B – Consistency/Justification of co-relation parameters of the above matrix:(5)

Table 1.5B.1 – Correlation between Mission statements & Vision of Dept.

Department Mission Statements	VISION OF DEPT. To impart quality Education in Electrical & Electronics Engineering for women empowerment	Justification
1. Imparting fundamental knowledge in Electrical & Electronics Engineering through well-qualified faculty (M1)	3	As can be seen M1 very strongly supports to achieve Vision of the Department ∴ Strength of mapping = 100%

2. Providing exposure to current technologies (M2)	3	As can be seen M2 also very strongly supports to achieve Vision of the Department ∴ Strength of mapping = = 100%
3. Providing hands-on experience to meet the expectations of the industry (M3)	3	As can be seen M3 also very strongly supports to achieve Vision of the Department ∴ Strength of mapping = = 100%
4. Facilitating individual and team activities to enhance personality and soft skills (M4)	3	As can be seen M4 also very strongly supports to achieve Vision of the Department ∴ Strength of mapping = = 100%
Overall Mapping of Mission statements with Vision of the dept. = 100%.		

Table 1.5B.2 – Correlation between Mission statements & vision of Dept.

**1.5B.3 - Conclusion:**

From the above it is evident that:

- The dept PEOs are strongly mapped with dept mission (table 1.5A.1) and the mission of the dept is strongly related to vision of the department (table 1.5B.1). ∴ attainment of PEOs lead to attainment of vision of the department.
- Similarly the vision of the dept is strongly related to vision of the Institute (table 1.5B.2).

∴ Attainment of vision of the department lead to attainment of vision of the Institute.

PEO Statements	M1	M2	M3	M4
To Excel in chosen career	3	2	2	2
To work effectively as an individual and as a team member, keeping in mind the high importance currently being given to sustainability and emerging Green Energy Technologies in the current scenario	2	3	2	3
To contribute to the community/society development through acquired knowledge and skills	1	2	2	2
Continuous upgradation of knowledge and skills	2	3	3	2

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)**2.1 Program Curriculum (30)**

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

G. Narayanamma Institute of Technology & Science is an Autonomous (UGC) Institute affiliated to Jawaharlal Nehru Technological University-Hyderabad (JNTUH), Hyderabad and follows the University norms.

As a result of continuous developmental works put forth by the Institution and Departments, the UGC has granted full autonomy (for both UG and PG) to GNITS for a period of 10 years starting from A.Y. 2018-19 onwards. This has paved way for GNITS to restructure technologies and requirements of Industry at the Institution itself.

Accordingly Board of Studies (BoS) was constituted in May 2018 by including academicians from reputed Universities/ NITs / IITs, Industry personnel, alumnae and senior faculty of the department.

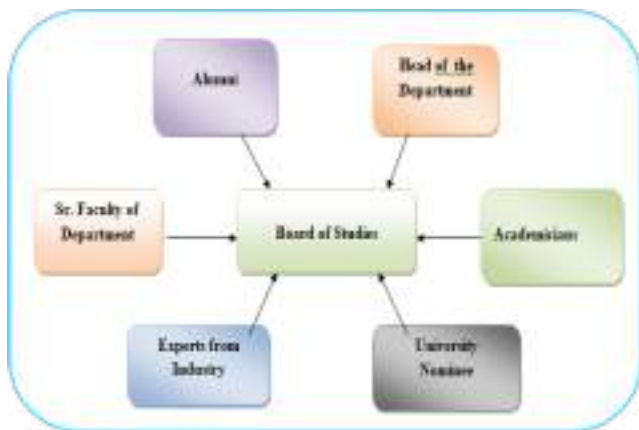


Fig.2.1.1.1 : Composition of Board of Studies

The following Table 2.1.1.1 shows list of Members of BoS

Table 2.1.1.1. Members of BoS

S.No	Name	Designation	Status
1.	Dr. N. Malla Reddy	Professor, Dept. of EEE, GNITS, Hyd.	BoS - Chairman
2.	Dr. N. Yadaiah	Professor, Dept. of EEE, College of Engineering, JNTUH, Hyd.	External Member (University Representative)
3.	Dr. S. Srinivas Rao	Professor, Dept. of EEE, NIT, Warangal.	External Member (Subject Expert)
4.	Dr. Alivelu Manga P	Assoc. Prof. & HOD, Dept. of EEE, BITS, Hyd.	External Member (Subject Expert)
5.	Mr. B Koti Reddy	Dy. Manager, GOUI, Heavy Water Plant, Manuguru.	External Member (Industry Representative)
6.	Dr. M. Indira Rani	Professor, Dept. of Mechanical Engineering, CoE, JNTUH, Hyd.	External Member (Subject Expert)
7.	Mr. M. V. Ramana Reddy	Assoc. Professor & HOD- Dept. of Mechanical Engineering, GNITS, Hyd	Internal Member

8.	Dr.K.Ramesh Reddy	Professor & Principal, GNITS, Hyd	Honorary Member
9.	Dr.G.Annapurna,	Professor, Dept. of EEE, GNITS, Hyd	Member Convener
10.	Dr. P.R.K. Reddy	Professor& HOD, Dept. of EEE, GNITS, Hyd	Internal Member
11.	Dr.R.Nageswara Rao	Professor, Dept. of EEE,GNITS, Hyd	Internal Member
12	Mr. G.Ramana Reddy	Assoc. Professor, Dept. of EEE, GNITS, Hyd	Internal Member
13	Mrs. M.Sandhya Priya	Asst. Engineer, TSGENCO, Hyd.	External Member(Alumnae Representative)



Dr.N.Yasirah,
Professor, JNTUH



Dr.M.Indira Devi,
Professor, JNTUH



Dr.S.Subhas Rao,
Professor, NITW



Dr.Alivaha Mangala P.,
Assoc. Professor,
BITSII



Sri B.Kirti Reddy,
Dy.MGR, DAE



Mrs.M.Sandhya Priya,
Asst. Engr., TSGENCO

Additionally, the following key committees are operational to aid in curriculum development and ensure the smooth functioning of the department.

1. Program Assessment Committee (PAC)
2. Department Advisory Committee (DAC)
3. College Academic Council (CAC)
4. Governing Council(GC)

The responsibilities of different committees / coordinators are as below:

1. Program Assessment Committee (PAC):

The Program Assessment Committee is constituted with the following members

1. Ex officio chairman – Head of the department
2. Senior Faculty of the department



Fig.2.1.1.2 : Composition of Program Assessment Committee

The responsibilities of PAC are:

1. Review the working of the department from time to time.
2. Propose suggestions /alterations in courses (theory / Labs) for the consideration of Department Advisory Committee.
3. Decide the threshold values for PO attainments of the department.

The frequency of meetings of Program Assessment Committee is atleast once in a semester.

2. Department Advisory Committee(DAC):

The Department Advisory Committee is constituted by including the following members

1. Ex Officio Chairman – Head of the Department
2. Academicians from reputed universities / NITs/IITs.
3. Representatives from Industry.
4. Alumnae.
5. Senior faculty of the department.
6. Parents



Fig.2.1.1.3 : Composition of Department Advisory Committee

The following Table 2.1.1.2 shows list of Members of DAC

Table 2.1.1.2. Members of DAC

Sl. No.	Name & Designation	Status
1.	Dr. P.Ramakrishna Reddy, HOD-EEE, GNITS	Chairman
2.	Dr.M.Surya Kalavathy, Professor, JNTUH	Member
3.	Dr.G.Annapurna, Professor, GNITS	Member Convener
4.	Dr. N. Malla Reddy, Professor, GNITS	Member
5.	Dr. K.S. Madhavan, Sr. DGM, BHEL (R&D)	Member
6.	Sri. V.V. H. Srinivasa Murthy, Director, Synergy Infra Consulting Co.	Member
7.	Dr. B. Suresh Kumar, Assoc. Prof., CBIT	Member
8.	Smt. P.Neeraja, Govt. School Teacher	Member
9.	Ms. Sonali Salins Alumnae, GNITS	Member
10.	Ms. Shaik Hashmi Saffina, Alumnae, GNITS	Member
11.	Dr.R.Nageswara Rao, Professor, GNITS	Member
12.	Sri. G. Gopinath, Professor, GNITS	Member
13.	Mr.G.Ramana Reddy, Assoc. Professor, GNITS	Member

Roles and Responsibilities of DAC:

- The Department Advisory Committee is the highest body which can suggest / propose changes or modifications in the departmental activities and program curriculum.
- All major activities of the department including formation of vision /mission etc are approved by this committee.
- The Department Advisory Committee can also suggest for inclusion / deletion of courses based on the need of the hour subject to ratification of the concerned BOS.

The frequency of meetings of Department Advisory Committee is atleast once in a year.



Fig.2.1.1.4 : Department Advisory Committee meeting

3. College Academic Council (CAC):

The College Academic Council is constituted with the following members

1. Principal of the Institute – Chairman
2. Controller of Examinations – Member Secretary
3. Heads of the Department from the Institute
4. Senior Faculty of the Institute
5. Nominees from JNTUH
6. Experts from Outside the Institute

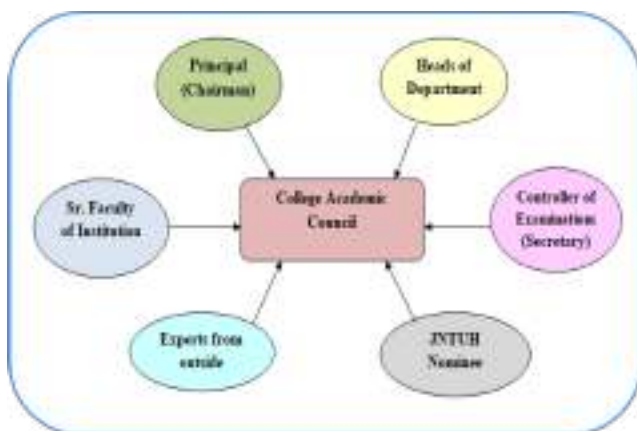


Fig.2.1.1.5 : Composition of College Academic Council

The following Table 2.1.1.3 shows list of Members of CAC

Table 2.1.1.3 Members of CAC

S. No.	Name & Designation	Status
1	Dr K. Ramesh Reddy, Principal, GNITS	Chairman
2	Dr K. Ramalinga Reddy, Prof. & Dean & Chairman – BoS - ETE	Member

3	Dr M. Seetha, Prof. & Dean & Chairman – BoS - ETE	Member
4	Dr I. Raviprakash Reddy, Prof. & Dean & Chairman – BoS – ETE	Member
5	Dr B. Venkateshulu, Prof. & Dean & Chairman – BoS – ETE	Member
6	Dr N. Malla Reddy, Prof. & Dean & Chairman – BoS – ETE	Member
7	Dr P. Aparna, Prof. & Dean & Chairman – BoS – ETE	Member
8	Dr T. Charan Singh, Prof. & Dean & Chairman – BoS – ETE	Member
9	Dr G. Annapurna, Professor – EEE	Member
10	Dr N. Kalyani, Prof. & Dean I&I	Member
11	Dr Rajkumar L. Biradar, HoD- ETM	Member
12	Dr M. Nagasree, Sr. Asst. Prof., H&M	Member
13	Dr G. Yesuratnam, Prof- EEE, OUCE	Member
14	Mr B.S.S. Prasad, M/S Infosys	Member
15	Mr Ch Lakshman Kumar, Quest Diagnostics	Member
16	Sri K. Raji Reddy, Advocate	Member
17	Dr M. Madhavi Latha, Sr. Prof- ECE, JNTUH	Member
18	Dr O.B.V.Ramaniaiah, Sr. Prof. – CSE, JNTUH	Member
19	Dr A. Aruna Kumari, Prof – Mech, JNTUH	Member
20	Dr G.P. Prasada Reddy, Prof –Mech, GNITS	Member

The responsibilities of this committee are:

- Endorsement and approval of the proposals of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications.
- Recommending proposals of new study programmes to the Governing Body for final approval.

4. Governing Council (GC):

Governing Council is constituted with the following members:

Number	Category	Nature
3 Members	Management	Trust or management as per the constitution or bye laws, with the Chairman or President/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



Fig.2.1.1.6 : Composition of Governing Council

The following Table 2.1.1.1 shows list of Members of GC

Table 2.1.1.4: Members of Governing Council

S. NO.	Name and Designation	Status
1.	Sri G. Raghava Reddy, Chairman, GNITS	Chairman
2.	Sri P. Subba Reddy, Trustee, G. Pulla Reddy Charities Trust	Member
3.	Smt G. Srividya Reddy, Vice Chairperson, GNITS	Member
4.	Prof. G. Gopal Reddy, Pro-VC, Mahatma Gandhi Central University, Bihar	Member
5.	Mrs Kiranmai Pendyala, Head of Human Resources India SanDisk India Device Design Centre Pvt. Ltd.	Member
6.	Dr. V. Venkateswara Reddy, Professor, Civil Engineering JNTUH UCESTH	Ex-officio Member
7.	Dr.K. Rama, Adviser, National Assessment & Accreditation Council	Ex-officio Member
8.	Nominee of Dept. of Technical Education, Govt. of Telangana	Ex-officio Member
9.	Dr. K. Ramalinga Reddy, Dean- Academics, GNITS	Member
10.	Dr. M. Seetha, Dean – R&D, GNITS	Member
11.	Dr. K. Ramesh Reddy, Principal, GNITS	Member Secretary

The roles and responsibilities of this committee are :

1. To decide on the overall development of the Institute which includes infrastructure, resource allocation, welfare measures, institute scholarship, medals, prizes and certificates on the recommendations of academic council and approval of new programs for the Institute.

The process of syllabus framing:

After UGC has granted Autonomy in 2018, during its first meeting, the BoS engaged in extensive deliberations and brainstorming, resulting in the formulation of syllabi enriched with present day topics. This curriculum became effective starting from the A.Y. 2018-19. Subsequent revision of the syllabi for the I and II years of both undergraduate and postgraduate programs in September 2022, taking effect from the A.Y. 2022-23. The syllabi for the III and IV years of the undergraduate program underwent revision in July 2023.

The methodology used to develop the program curriculum is through getting feedback from different stakeholders i.e.

1. Faculty
2. Industry experts
3. Employers
4. Alumnae
5. Students
6. Parents

The Course Expert Group designs the curriculum, incorporating feedback from stakeholders into the process. Subsequently, the PAC recommends modifications and enhancements to the program curriculum, which are then forwarded to the DAC for further action as required refines the curriculum. It is subsequently presented to the BoS for approval. During BoS meeting, the modifications and changes suggested by the members in the curriculum will be incorporated and after suitable corrections, it will be approved. In the process of framing Academic Council for endorsement after it is approved by BoS. Once the curriculum is endorsed by CAC, it will proceed to the Governing Council for final endorsement. It will then be published in the form of booklets and disseminated through college website.

The following Fig 2.1.1.7 describes the entire process of designing the program curriculum.



Fig. 2.1.1.7: Process of designing Program Curriculum

To grasp advanced topics, a comprehension of preceding concepts is essential. The following connection diagram illustrates the prerequisite courses, justifying the structure of the curriculum spanning over 8 semesters.

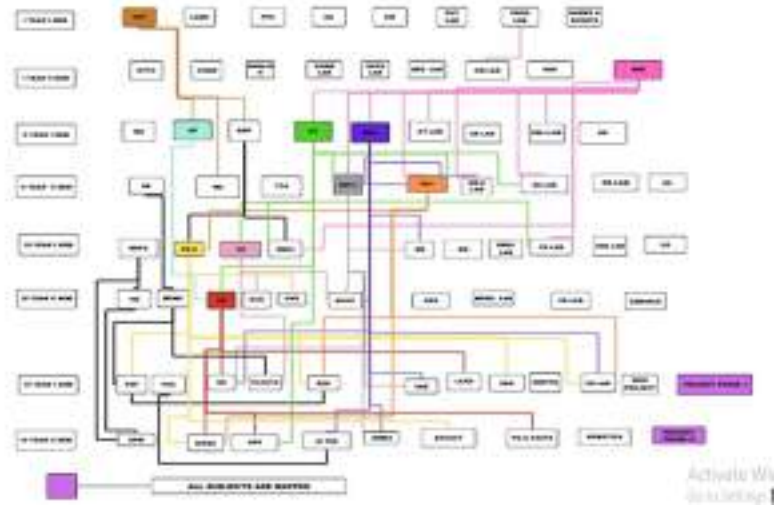


Fig. 2.1.1.8 Connection diagram of Pre-requisites

2.1.2 Structure of the Curriculum (5)

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theoretical
1	C101	Physics	3	1	0	4	4
2	C102	Linear Algebra and Multivariable Calculus	3	1	0	4	4
3	C103	Programming for Problem Solving	3	0	0	3	3
4	C104	Engineering Graphics	1	0	3	4	1
5	C105	Engineering Workshop	1	0	3	4	1
6	C106	Physics Lab	0	0	3	3	0
7	C107	Programming Lab	0	0	3	3	0
8	C108	Games and Sports	2	0	0	2	0
9	C109	Chemistry	3	1	0	4	4
10	C110	Numerical Techniques and Transform Calculus	3	1	0	4	4
11	C111	English	2	0	0	2	2
12	C112	Basic Electrical Engineering	3	1	0	4	4
13	C113	Chemistry Lab	0	0	2	2	0
14	C114	English Professional and Communication Skills Lab	0	0	2	2	0
15	C115	Basic Electrical Engineering Lab	0	0	3	3	0
16	C116	Computational Mathematics Lab	0	0	3	3	0
17	C117	National Service Scheme (NSS)	2	0	0	2	0
18	C201	Mathematical Analysis	3	0	0	3	3
19	C202	Circuits Theory	3	0	0	3	3
20	C203	Analog Electronics	3	0	0	3	3
21	C204	Electrical Machines-I	3	1	0	4	4
22	C205	Electromagnetic fields	3	0	0	3	3
23	C206	Circuits Lab	0	0	3	3	0

24	C207	Analog Electronics lab	0	0	3	3	0
25	C208	Electrical Machines -I Lab	0	0	3	3	0
26	C209	Gender Sensitization	2	0	0	2	0
27	C210	Transform Techniques and Applications	3	0	0	3	3
28	C211	Material Science	3	0	0	3	3
29	C212	Digital Electronics	3	0	0	3	3
30	C213	Electrical Machines -II	3	1	0	4	4
31	C214	Power Systems-I	3	0	0	3	3
32	C215	Electrical Machines-II Lab	0	0	3	3	0
33	C216	Electrical Simulation Lab	0	0	3	3	0
34	C217	Digital Electronics Lab	0	0	3	3	0
35	C218	Environmental Science	2	0	0	2	0
36	C301	Managerial Economics and Financial Analysis	3	0	0	3	3
37	C302	Power Systems -II	3	1	0	4	4
38	C303	Control Systems	3	0	0	3	3
39	C304	Professional Elective-1	3	0	0	3	3
40	C307	Open Elective-1	3	0	0	3	3
41	C314	Electrical Measurements and Instrumentation Lab	0	0	3	3	0
42	C315	Control Systems Lab	0	0	3	3	0
43	C316	Employability and Soft Skills Lab	0	0	2	2	0
44	C317	Fundamentals of Management	3	0	0	3	3
45	C318	Microprocessors and Microcontrollers	3	0	0	3	3
46	C319	Power Electronics	3	0	0	3	3
47	C320	Professional Elective-2	3	0	0	3	3
48	C323	Open Elective-2	3	0	0	3	3

49	C330	Microprocessors and Microcontrollers Lab	0	0	3	3	0
50	C331	Power Electronics Lab	0	0	3	3	0
51	C332	Seminar	0	0	2	2	0
52	C401	Power System Protection	3	0	0	3	3
53	C402	Power System Analysis	3	0	0	3	3
54	C403	Professional Elective-3	3	0	0	3	3
55	C406	Professional Elective-4	3	0	0	3	3
56	C409	Open Elective-3	3	0	0	3	3
57	C414	Power Systems Lab	0	0	2	2	0
58	C415	Mini Project	0	0	0	0	0
59	C416	Project Phase - I	0	0	5	5	0
60	C417	Entrepreneurship and Project Management	3	0	0	3	3
61	C418	Professional Elective-5	3	0	0	3	3
62	C421	Professional Elective-6	3	0	0	3	3
63	C424	Open Elective-4	3	0	0	3	3
64	C429	Project Phase - II	0	0	14	14	0
		Total	117	8	77	202	117

2.1.3 State the components of the curriculum (5)

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

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)

We adhere to a meticulous process to ensure that our curriculum for the B. Tech. Program in Electrical and Electronics Engineering effectively aligns with the designated Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Assessment and Alignment: The guidelines provided by Accredited Bodies and our Institution will be thoroughly examined to initiate the process of designing the curriculum. These guidelines serve as the foundation for depicting the desired POs and PSOs. Each component Sciences, Engineering Sciences, Humanities and Mathematics, Professional Core Engineering, Mini Projects, main Projects and Internships is meticulously aligned with these identified outcomes.

Curriculum Mapping: The course outcomes of each course are mapped with the established POs and PSOs. This step ensures that every aspect of our curriculum contributes meaningfully towards the attainment of the desired outcomes.

Selection of Assessment Tools: Various assessment tools and methodologies are selected and implemented to evaluate the performance of the students and achievement of POs and PSOs. These tools include examinations, Project works, presentations, surveys, relevant rubrics

Data Collection and Analysis: Data is collected on student performance and for the attainment of POs and PSOs through the chosen assessment tools. This data is then analysed to ascertain the degree of attainment of each outcome. Based on this analysis, strengths and weak

Feedback: Once the strengths and weaknesses of curriculum based on feedback from stakeholders is obtained, analysis is done and the consolidated report is reserved for next cycle of curriculum design through BoS and other relevant bodies.

Continuous Monitoring and Review: Continuous monitoring of student performance and curriculum effectiveness to ensure alignment with industry standards and evolving educational trends are reviewed periodically.

Program Outcomes – B. Tech. Program

PO1: Engineering Knowledge: To acquire firm knowledge of Mathematics, Science, Engineering & Computer Science.

PO2: Problem Analysis: To identify, formulate & analyze requirements of IT Applications.

PO3: Design & Development Solutions: To effectively apply engineering principles to the design of computer & IT based Systems.

PO4: Investigation of complex problems: To synthesize research based knowledge in the design of programming and analysis of data for providing valid conclusions to complex problems.

PO5: Modern Tool Usage: To possess skills for creating and selecting modern software development tools.

PO6: Engineering & Society: To apply conceptual knowledge relevant to professional engineering practices in societal, health, safety, legal and cultural issues and their consequences.

PO7: Environment & Sustainability: To understand the impact of engineering solutions in social and economic environments and work towards sustainable development.

PO8: Ethics: To understand contemporary legal, social & ethical issues in computing.

PO9: Individual & Team work: To effectively work as an individual and adapt to a team environment.

PO10: Communication: To communicate precisely and effectively both in oral and written in all engineering activities.

PO11: Project management & finance: To apply engineering and management principles for managing and leading economically feasible projects in multi disciplinary environments as an individual and team member.

PO12: Life Long Learning: To develop confidence to engage in independent & life long learning in the context of Technological changes.

Program Specific Outcomes - Electrical and Electronics Engineering:

PSO1: Graduates will be able to analyze, develop and demonstrate Projects, both Software and Hardware in relevant topics of Electrical and Electronics Engineering.

PSO2: Graduates will be able to identify and solve problems in different core areas of Electrical and Electronics Engineering to meet the industry requirements along with overall personality and skills development.

The following table describes the correlation between Course Outcomes and Program Outcomes, Program Specific Outcomes.

Table 2.1.4.1: CO – PO, PSO Correlation table (R-18 Regulations)

S. No	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C101	√	√	√	√	√	√	√						√	√
2	C102	√	√	√											√
3	C103	√	√	√		√				√			√	√	√
4	C104	√	√	√		√	√	√			√	√	√	√	√
5	C105	√		√			√		√		√		√	√	√
6	C106	√	√	√	√	√	√	√	√	√	√	√	√	√	√

7	C107	√	√	√	√	√				√			√	√	√
8	C109	√	√	√	√	√	√	√					√	√	√
9	C110	√	√	√	√										√
10	C111									√	√		√		√
11	C112	√	√	√	√								√	√	√
12	C113	√	√	√	√	√	√							√	√
13	C114				√					√	√	√			√
14	C115	√	√	√	√	√								√	√
15	C116	√	√	√	√	√				√					
16	C201	√	√												√
17	C202	√	√	√	√	√	√	√				√	√	√	√
18	C203	√	√	√	√								√	√	√
19	C204	√	√	√										√	√
20	C205	√	√	√	√	√	√					√	√	√	√
21	C206	√	√	√	√		√			√	√			√	√
22	C207	√	√	√	√	√			√	√	√	√	√	√	√
23	C208	√	√	√										√	√
24	C210	√	√							√	√				√
25	C211	√	√				√	√	√		√		√		
26	C212	√	√	√	√	√		√	√	√	√	√	√	√	√
27	C213	√	√	√	√		√						√	√	√
28	C214	√	√	√			√	√				√	√	√	√
29	C215	√	√	√	√		√			√	√		√	√	√
30	C216	√	√	√	√	√				√	√			√	√
31	C217	√	√	√	√	√		√		√	√	√	√	√	√
32	C301			√	√			√		√	√	√	√		
33	C302	√	√	√	√		√	√					√	√	√
34	C303	√	√	√	√	√	√	√							√
35	C304	√	√	√									√	√	√
36	C307	√	√	√	√	√	√			√		√	√	√	√
37	C308	√	√	√		√	√								
38	C312	√	√	√		√	√	√					√	√	√
39	C314	√	√	√									√	√	√
40	C315	√	√	√	√									√	√

41	C316		√						√	√	√		√		
42	C317						√	√		√	√		√		
43	C318	√	√	√	√	√	√							√	√
44	C319	√	√	√	√	√	√	√					√	√	√
45	C322	√	√	√	√	√	√	√					√	√	√
46	C325	√	√	√	√	√								√	√
47	C326					√	√			√	√	√			
48	C330	√	√	√	√	√				√				√	√
49	C331	√	√	√		√	√						√	√	√
50	C332	√	√	√	√	√	√	√			√	√	√	√	√
51	C401	√	√	√	√	√	√	√					√	√	√
52	C402	√	√	√	√	√								√	√
53	C403	√	√	√	√	√	√	√		√				√	√
54	C404	√	√	√	√	√									
55	C405	√	√	√	√	√		√			√	√	√	√	√
56	C406	√	√	√	√									√	√
57	C408	√	√	√	√	√	√	√	√	√	√	√	√	√	√
58	C410	√	√	√	√	√	√						√	√	√
59	C413						√	√		√	√	√	√		
60	C414	√	√	√	√		√								√
61	C415	√	√	√	√	√	√	√	√	√	√	√	√	√	
62	C416	√	√	√	√	√	√	√	√	√	√	√	√	√	√
63	C417						√	√		√	√	√	√		
64	C418	√	√	√	√	√	√	√					√	√	√
65	C423	√	√	√	√	√	√							√	√
66	C428	√	√	√	√	√	√	√	√	√	√	√	√	√	√
67	C429	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Table 2.1.4.2: PO, PSO Vs Course Codes table

S. No	PO'S	COURSE CODE
-------	------	-------------

1	PO1	C101 C102 C103 C104 C105 C106 C107 C109 C110 C112 C113 C115 C116 C201 C202 C203 C204 C205 C206 C207 C208 C210 C211 C212 C213 C214 C215 C216 C301 C303 C304 C307 C308 C312 C314 C315 C318 C319 C322 C325 C330 C331 C332 C401 C402 C403 C404 C405 C406 C408 C410 C414 C415 C416 C418 C423 C428 C429
2	PO2	C101 C102 C103 C104 C106 C107 C109 C110 C112 C113 C115 C116 C201 C202 C203 C204 C205 C206 C207 C208 C210 C211 C212 C213 C214 C215 C216 C217 C303 C304 C307 C308 C312 C314 C315 C316 C318 C319 C322 C325 C330 C331 C332 C401 C402 C403 C404 C405 C406 C408 C410 C414 C415 C416 C418 C423 C428 C429
3	PO3	C101 C102 C103 C104 C105 C106 C107 C109 C110 C112 C113 C115 C116 C202 C203 C204 C205 C206 C207 C208 C212 C213 C214 C215 C216 C217 C301 C302 C303 C307 C315 C318 C319 C322 C325 C330 C332 C401 C402 C403 C404 C405 C406 C408 C410 C414 C415 C416 C418 C423 C428 C429
4	PO4	C101 C106 C107 C109 C110 C112 C113 C114 C115 C116 C202 C203 C205 C206 C207 C212 C213 C215 C216 C217 C301 C302 C303 C307 C308 C315 C318 C319 C322 C325 C330 C332 C401 C402 C403 C404 C405 C406 C408 C410 C414 C415 C416 C418 C423 C428 C429
5	PO5	C101 C103 C104 C106 C107 C109 C113 C116 C202 C205 C207 C212 C216 C217 C303 C307 C308 C312 C318 C319 C322 C325 C326 C330 C331 C332 C401 C402 C403 C404 C405 C408 C410 C415 C416 C418 C423 C428 C429
6	PO6	C101 C104 C105 C106 C109 C113 C202 C205 C206 C211 C213 C214 C215 C302 C303 C307 C312 C317 C318 C319 C322 C326 C331 C332 C401 C403 C408 C410 C413 C414 C415 C416 C417 C418 C423 C428 C429
7	PO7	C101 C104 C106 C109 C202 C211 C212 C214 C217 C301 C302 C303 C312 C317 C319 C322 C332 C401 C403 C405 C408 C413 C415 C416 C418 C428 C429
8	PO8	C105 C106 C114 C207 C211 C212 C316 C408 C415 C416 C428 C429

9	PO9	C103 C106 C107 C111 C114 C116 C206 C207 C210 C212 C215 C216 C217 C301 C307 C308 C316 C317 C326 C330 C403 C408 C413 C415 C417 C418 C428
10	PO10	C104 C105 C106 C111 C114 C206 C207 C210 C211 C212 C215 C216 C217 C301 C316 C317 C326 C332 C405 C408 C413 C415 C416 C417 C428 C429
11	PO11	C104 C106 C202 C205 C207 C212 C214 C217 C301 C307 C319 C322 C326 C331 C401 C405 C408 C410 C413 C415 C416 C417 C418 C428 C429
12	PO12	C103 C104 C105 C106 C107 C109 C111 C112 C202 C203 C205 C207 C211 C212 C213 C214 C215 C217 C301 C302 C304 C307 C312 C314 C316 C317 C319 C322 C331 C332 C401 C402 C403 C405 C408 C410 C413 C415 C417 C418 C423 C428
13	PSO1	C101 C103 C104 C105 C106 C107 C109 C112 C113 C115 C202 C203 C204 C205 C206 C207 C208 C212 C213 C214 C215 C216 C217 C304 C307 C308 C312 C314 C315 C319 C322 C325 C331 C332 C401 C402 C403 C405 C406 C408 C410 C414 C415 C416 C418 C423 C428 C429
14	PSO2	C101 C102 C103 C104 C105 C106 C107 C109 C110 C111 C112 C113 C114 C115 C201 C202 C203 C204 C205 C206 C207 C208 C210 C212 C213 C214 C215 C216 C217 C302 C303 C304 C307 C312 C314 C315 C318 C319 C322 C325 C330 C331 C332 C401 C402 C403 C405 C406 C408 C410 C416 C418 C423 C428 C429

Considering the matrix provided, its evident that some of the Program Outcomes (POs) have less alignment with the courses. To address this gap, we have arranged the following supplementary activities.

The following Table 2.1.4.3 gives the details of additional activities.

Table 2.1.4.3 List of Additional activities

Additional Activities	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pre placement Training	√	√						√		√	
Training on Soft skills		√	√		√			√	√		√
Creative / Hobby Projects	√	√	√		√	√		√	√	√	√
Guest lectures	√	√	√	√	√	√	√	√	√	√	√
Workshops	√	√	√	√	√	√	√	√	√	√	√
Industrial Visits	√	√	√	√	√	√		√	√		√
Value Added Courses	√	√	√	√	√	√	√	√	√	√	√

Paper Presentations/ Poster Presentations	√	√	√	√	√	√	√	√	√	√	√
Publications	√	√	√	√	√	√	√	√	√	√	√
PROJECTS	√	√	√	√	√	√	√	√	√	√	√

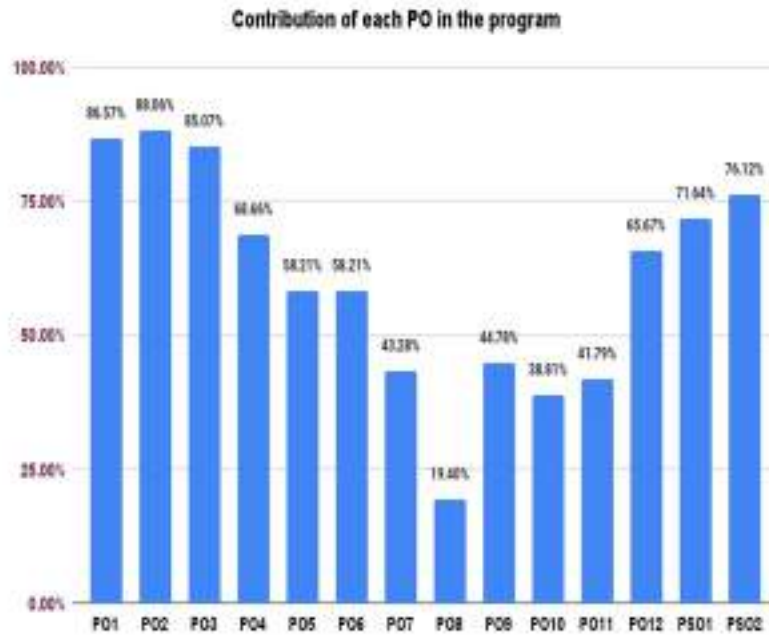


Fig. 2.1.4.1 Mapping of each PO with courses

The following Fig 2.1.4.2 illustrates Flowchart Depicting the process of correlating all the Courses with Program Outcomes(POs) and Program Specific Outcomes(PSOs).



Fig. 2.1.4.1 CO – PO, PSO Correlation Flow chart

2.2 Teaching-Learning Processes (70)

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

An effective teaching and learning process plays a fundamental role in individual development, societal progress and global competitiveness. It also leads to achievement of POs , PSOs and PEOs.

Apart from classroom teaching various co-curricular activities are conducted to strengthen the student skills.

The Teaching – Learning process adopted in the Department of Electrical and Electronics Engineering is presented in the following Flow chart.

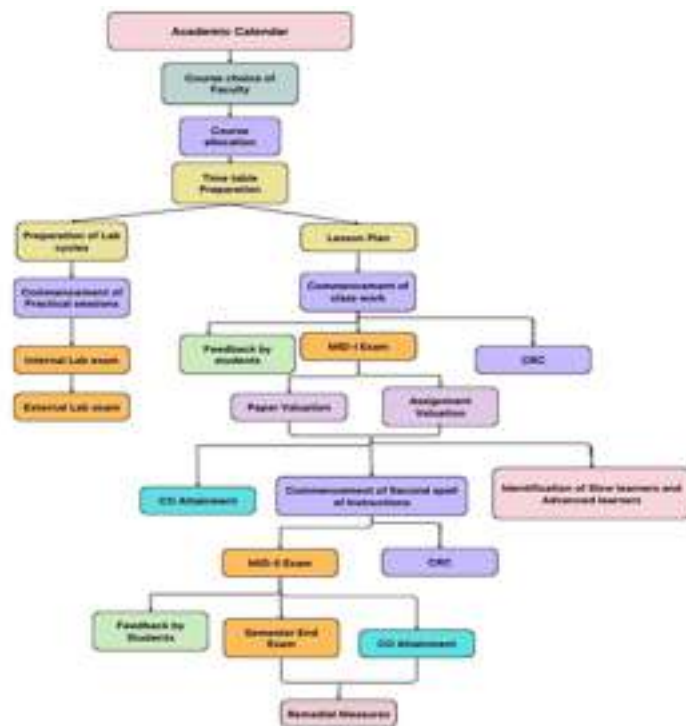


Fig. 2.2.1.1: Flow chart showing Teaching – Learning process

In order to improve the quality of teaching and learning, the following are strictly adhered to:

- A. Adherence to Academic Calendar (2)
- B. Pedagogical initiatives (2)
- C. Methodologies to support weak students and encourage bright students(2)
- D. Quality of classroom teaching (2)
- E. Conduct of experiments (2)
- F. Continuous Assessment in the laboratory (3)
- G. Student feedback of teaching learning process and actions taken (2)

A. Adherence to Academic calendar(2):

The Academic calendar is prepared at the institute level before the commencement of Academic Year involving inputs from administrators and departments. Once the academic calendar is finalized, it is shared with all departments within the institute and is published in Ins Exam Schedule and of the Institution. It majorly conveys the start and end dates of class work or academic term, holidays / breaks and summer vacation. Also dates for midterm exams and final exams are included. It is usually published and made available to students, faculty

Figure 2.2.1.1 shows the sample copy of the academic calendar of II B.Tech course for the year 2022-23.

ILNARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(AUTONOMOUS) FOR WOMEN
 BEARHOLEY, MUDURAI-605004
ACADEMIC CALENDAR (2022-2023)
II Year B. Tech Course

I Sem

Commencement of I st Semester Class Work	01-10-2022
I st Sppt of Instruction	01-10-2022 To 01-11-2022 (8 Weeks)
First Mid Term Examinations	04-12-2022 To 06-12-2022 (3 Weeks)
I st Sppt of Instruction	11-12-2022 To 04-01-2023 (8 Weeks)
Second Mid Term Examinations	06-01-2023 To 11-01-2023 (1 Week)
Preparation & Practical Examinations	11-01-2023 To 19-01-2023 (1 Week)
End Semester Examinations	20-01-2023 To 04-02-2023 (2 Weeks)

II Sem

Commencement of II nd Semester Class Work	06-02-2023
I st Sppt of Instruction	06-02-2023 To 29-02-2023 (8 Weeks)
First Mid Term Examinations	01-05-2023 To 06-05-2023 (1 Week)
I st Sppt of Instruction	08-05-2023 To 01-07-2023 (8 Weeks)
Second Mid Term Examinations	01-07-2023 To 06-07-2023 (1 Week)
Preparation & Practical Examinations	06-07-2023 To 13-07-2023 (1 Week)
End Semester Examinations	14-07-2023 To 29-07-2023 (2 Weeks)

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Fig. 2.2.1.1: Institute Academic Calendar II B.Tech. A.Y 2022.2023

**G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(AUTONOMOUS) (for Women)
Shankpet, Hyderabad, Telangana - 500104**

**ACADEMIC SCHEDULE
For the academic year 2022-2023**

	SPELL-1	1 MID	SPELL-2	II MID	END EXAMS
I B.TECH - I SEM	07-11-2022	02-01-2023	09-01-2023	06-03-2023	27-03-2023
	31-12-2022	07-01-2023	08-01-2023	31-03-2023	08-04-2023
	10-04-2023	05-06-2023	13-06-2023	07-08-2023	28-08-2023
I B.TECH - II SEM	05-06-2023	18-06-2023	05-08-2023	12-08-2023	09-09-2023
	18-10-2022	09-12-2022	12-12-2022	06-02-2023	26-02-2023
II B.TECH - I SEM	05-12-2022	18-12-2022	09-02-2023	11-02-2023	26-03-2023
	06-03-2023	01-05-2023	06-05-2023	03-07-2023	17-07-2023
II B.TECH - II SEM	29-08-2023	06-05-2023	01-07-2023	05-07-2023	28-07-2023
	28-09-2022	11-03-2023	07-11-2021	02-01-2023	23-01-2023
III B.TECH - I SEM	29-10-2022	05-11-2022	21-12-2022	07-01-2023	04-02-2023
	08-02-2023	01-04-2023	10-04-2023	08-06-2023	19-06-2023
III B.TECH - II SEM	01-04-2023	08-04-2023	07-06-2023	10-06-2023	01-07-2023
	01-06-2022	26-05-2022	18-05-2022	05-12-2022	16-12-2022
IV B.TECH - I SEM	26-09-2022	01-10-2022	01-11-2022	03-12-2022	11-12-2022
	02-01-2023	06-01-2023	13-01-2023	08-01-2023	22-01-2023
IV B.TECH - II SEM	06-01-2023	11-01-2023	06-01-2023	13-01-2023	05-06-2023
	07-11-2022	02-01-2023	06-01-2023	04-03-2023	27-03-2023
M.TECH - I SEM	31-12-2022	07-01-2023	04-01-2023	10-01-2023	08-04-2023
	10-04-2023	03-06-2023	12-06-2023	07-08-2023	28-08-2023
M.TECH - II SEM	05-06-2023	20-06-2023	04-08-2023	10-08-2023	09-09-2023
	14-09-2022	11-11-2022	08-12-2022	16-01-2023	13-02-2023
M.TECH - III SEM	09-11-2022	26-11-2022	20-01-2023	04-02-2023	28-02-2023
	18-02-2023	—	06-05-2023	—	—
M.TECH - IV SEM	29-04-2023	—	29-07-2023	—	14-08-2023

Principal
PRINCIPAL

Fig.2.2.1.2: Academic Schedule - II B.Tech A.Y. 2022-23

GNIES		GNIES-EEE/CTW/B01.008	
TIME TABLE SEMESTER		DEPARTMENT - EEE	
Academic year: 2022 - 2023			
Branch: EEE	Year: II B.Tech. EEE-A, Semester - II		Class Room No. LH-04
Period	1	2	3
Time / Day	9:00 - 10:00	10:00 - 11:00	11:00 - 12:00
MON	IS	IS	ISAO
TUE	ISF-I Lab / IS Lab / DE Lab		IS
WED	ITA	ISB-I	ISB
THU	ISB-II Lab / IS Lab / DE Lab		ISB
FRI	ISB-I	ISB-I	ITA
SAT	ISB	DE	ISB-I
Instructors		Faculty Name	Name of the Lab
Practicals		Faculty Name	Faculty Name
Electronic Technology and Applications (Course Code: EC2108B) (CTW)	Dr.M.Nageswara	Electronic Machines II Lab (EM-II Lab)	Dr.G.Sankaran / Dr.PPK Reddy
Electrical Systems (IES)	Mr.D.J.Pradha	Electrical Simulation Lab (ES Lab)	Mrs.K. Suresh Latha / Mr.K.Pavani Kumar
Digital Electronics (IEE)	Mr.A.Chandrasudhan	Digital Electronics Lab (DE Lab)	Mr.A.Chandrasudhan
Electrical Machines - I (EM-I)	Dr.H.Mahesh Reddy	Value Added Course (VAC)	Dr.E.Venkatesh
Power Systems (PS-I)	Dr.PPK Reddy	Mathematics for Machine Learning	Mr.E. Eswarath Krishna
Environmental Systems (ES)	Mr.Ch.Amit		
A1: 21-201 to 220, 23-201, 202 (11)		A2: 21-221 to 232, 234 to 240, 25-201, 204 (12)	
A3: 21-242 to 244, 246 to 252, 234 to 241, 25-203 to 207 (13)			
Class Teacher: Dr.G.Sankaran			
Dept. Coordinator: <i>[Signature]</i>			
Time Table Coordinator: <i>[Signature]</i>			
Copy to: Individual Dept. EEE/CTW/Time Table Coordinator/Principal/EC/Institute Board			

Fig.2.2.1.3: Class Time Table

**G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE-SHAIKPET
HYDERABAD- 500 104**

B.E.EECH-1 SEMESTER - GNTS-RIS 1st Mid-Term EXAMINATIONS Nov 2023

TIME-TABLE

Time : 10.00 AM To 12.00 NOON

BRANCH	05-11-2023(MON DAY)	06-11-2023(TUE) DAY)	07-11-2023(WED) DAY)	08-11-2023(THU) DAY)	09-11-2023(FRI DAY)
ECE	Mathematical Analysis	Circuit Theory	Logic Elements	Electrical Machines - I	Electromagnetic Fields
ECCE	Mathematical Analysis	Network Theory	Electronic Devices and Circuits	Signals and Systems	Digital System Design
ETIM	Mathematical Analysis	Network Theory	Electronic Devices and Circuits	Signals and Systems	Digital System Design

Question Paper Pattern: As per website registration.

22.09.2023

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A. Narayanamma Institute of Technology & Science
Shaikpet, Hyderabad - 500 104

Fig.2.2.1.4: Mid -1 Time Table

**G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE-SHAIKPET
HYDERABAD- 500 104**

B.E.EECH-1 SEMESTER - GNTS-RIS 1st Mid-Term EXAMINATIONS FEB 2023

TIME-TABLE

Time : 10.00 AM To 12.00 NOON

AUTONOMOUS

BRANCH	06-02-2023 (MON DAY)	07-02-2023 (TUE DAY)	08-02-2023 (WED DAY)	09-02-2023 (THU DAY)	10-02-2023 (FRI DAY)
CSE	Probability and Statistics	Digital Logic Design	Engineering Mechanics	Data Structures	Object Oriented Programming
IT	Probability and Statistics	Digital Logic Design	Engineering Mechanics	Data Structures	Object Oriented Programming
CSE [REGULAR]	Probability and Statistics	Digital Logic Design	Theoretic Mathematics	Data Structures	Database Management Systems
CSE [REGULAR]	Probability and Statistics	Digital Logic Design	Theoretic Mathematics	Data Structures Using C	Database Management Systems
CSD	Mathematical Foundations in Data Science	Digital Logic Design	Data Handling & Visualization	Data Structures Using C	Database Management Systems

Question Paper Pattern: As per website registration.

22.09.2023

Handwritten Signature
A. Narayanamma Institute of Technology & Science
Shaikpet, Hyderabad - 500 104

Fig.2.2.1.5: Mid -2 Time Table

B. Pedagogical Initiatives(2):

Pedagogical initiatives include a wide range of strategies, programs and approaches aimed at improving teaching and learning outcomes. These initiatives are designed to enhance the quality of education, address diverse learning needs and encourage innovation in instructional



Fig.2.2.1.6 : List of Pedagogical initiatives

Table 2.2.1.1: Course Delivery Methods:

S.No	Name of the Student Centric method	Activities
1	Experiential learning	1.Hands on training in laboratories. 2. Field visits 3. Seminars 4. Hackathons
2	Participative learning	1. Group discussions 2. Student Seminars 3. Debates 4.Quiz competition 5.Community outreach activities
3	Problem solving	1.Simulation-Based Exercises 2.Problem-Based Learning 3.Worksheets

4	Self-directed learning	<ol style="list-style-type: none"> 1. Access to books, journals, e-resources 2. Impartus Video Lectures 3. Online Courses 4.NPTEL videos
---	------------------------	--

i. Collaborative learning:

Collaborative learning fosters a supportive and interactive learning environment where students actively engage with course material, learn from their peers, develop critical thinking skills and prepare for success in future academic, professional and social endeavours. By lev and more meaningful learning experiences for all students.

ii. Self-Learning:

Self-learning is a transformative approach to education that empowers individuals to become lifelong learners, critical thinkers, and problem solvers. By embracing self-directed learning, individuals take ownership of their learning journey, develop essential skills and habits, supplementing their traditional coursework, gaining practical skills, and staying updated with industry trends.

Some of the online E-learning platforms are: **NPTEL, MOOCsCoursera, edX, Udemy etc.**

iii. Project-Based Learning (PBL):

Implement project-based learning approaches where students work on real-world engineering projects individually or in teams. PBL encourages active learning, problem-solving and collaboration, while also providing hands-on experience relevant to their field. Students a curriculum requirement.



Fig.2.2.1.7: Conduct of Experiment



Fig.2.2.1.8: Execution of Project

iv. Experiential Learning Opportunities:

Provide opportunities for students to gain practical experience through internships, industry projects and field visits. Experiential learning bridges the gap between theory and practice, helping students develop valuable skills and insights



Fig.2.2.1.9: Visit to Substation

v. Incorporation of Emerging Technologies:

Integration of emerging technologies such as artificial intelligence, Internet of Things (IoT) and augmented reality helps students with . hands-on experience of cutting-edge technologies and prepares them for the rapidly evolving engineering landscape.

Students were given opportunity to implement Brake test on DC shunt motor experiment of Electrical Machines lab using virtual reality by Oculus using unity 3D software.



Fig.2.2.1.10: Virtual Reality

vi. Learning through Professional Body activities:

Learning through professional Body activities can be highly beneficial for engineering students, offering numerous opportunities for networking, skill development and career advancement.

Many professional societies organize workshops, seminars and training sessions on a wide range of technical topics relevant to engineering disciplines. These events offer opportunities for hands-on learning, skill development and exposure to industry best practices.

Professional societies facilitate networking among students, academics, industry professionals and experts in the field.

Most professional societies have student chapters or affiliated student groups at universities and colleges. Joining these chapters provides students with leadership opportunities, access to exclusive events and a supportive community of peers who share similar interests. Society (IES) chapter and Power Electronics Society (PELS) chapter under IEEE GNITS student branch. Activities such as industrial visits, guest lectures and other technical events are conducted under these student chapters.



Fig.2.2.1.11: Visit to ARCI

In addition importance is given to the maintenance of course files by the respective course instructor. A course file serve as a comprehensive guide and resource for both professors and students throughout the duration of a course. It encapsulates the structure, content and exp units which helps creating a structured framework for organizing course content and pacing instruction throughout the semester.

The course file comprises of:

1. Course Objectives
2. Course Outcomes
3. CO-PO and PSO mapping
4. Lesson Plan
5. Internal exam and External exam question papers
6. Time table
7. Assignment Questions
8. Unit wise Lecture Notes
9. Content Beyond syllabus

1. Course Objectives:

Designing course objectives is a crucial step in creating a clear and effective learning experience for students. Course objectives should be specific, measurable, achievable, relevant and time-bound.

2. Course Outcomes:

Course outcomes articulate the specific knowledge, skills and abilities that students are expected to acquire or demonstrate by the end of a course.

3. CO-PO and PSO mapping:

Mapping with respect to course outcomes, program outcomes and program-specific outcomes is important for facilitating assessment and curriculum development, monitoring student progress, meeting accreditation requirements and supporting continuous improvement effort

4. Lesson Plan:

Lesson plans are essential tools that support effective teaching and learning offering a structured approach to teaching that supports effective classroom management, student engagement and the achievement of learning objectives. Teachers can plan and allocate time efficiently

The image shows two pages of a lesson plan. The left page contains course information and a table of topics. The right page is a detailed table of topics with time allocations.

Sl. No.	Topic	Class Time	Teaching Methods
1	Introduction to the course, syllabus and objectives	10:00 - 10:30 AM	Lecture
2	History of Chemistry	10:30 - 11:00 AM	Lecture
3	Atomic Structure and Bohr's model	11:00 - 11:30 AM	Lecture
4	Periodic Table	11:30 - 12:00 PM	Lecture
5	Chemical Bonding	12:00 - 12:30 PM	Lecture
6	States of Matter	12:30 - 1:00 PM	Lecture
7	Solutions	1:00 - 1:30 PM	Lecture
8	Chemical Equilibrium	1:30 - 2:00 PM	Lecture
9	Redox Reaction	2:00 - 2:30 PM	Lecture
10	Electrochemistry	2:30 - 3:00 PM	Lecture
11	Chemical Kinetics	3:00 - 3:30 PM	Lecture
12	Thermodynamics	3:30 - 4:00 PM	Lecture
13	Atomic Structure and Bohr's model	4:00 - 4:30 PM	Lecture
14	Periodic Table	4:30 - 5:00 PM	Lecture
15	Chemical Bonding	5:00 - 5:30 PM	Lecture
16	States of Matter	5:30 - 6:00 PM	Lecture
17	Solutions	6:00 - 6:30 PM	Lecture
18	Chemical Equilibrium	6:30 - 7:00 PM	Lecture
19	Redox Reaction	7:00 - 7:30 PM	Lecture
20	Electrochemistry	7:30 - 8:00 PM	Lecture
21	Chemical Kinetics	8:00 - 8:30 PM	Lecture
22	Thermodynamics	8:30 - 9:00 PM	Lecture

The image shows a sample lesson plan page with detailed text and a table of topics.

Course Details:
 Course Name: CHEMISTRY
 Course Code: CHEM101
 Semester: I
 Credits: 3

Objectives:
 1. To understand the basic concepts of chemistry.
 2. To understand the structure of matter.
 3. To understand the chemical bonding.
 4. To understand the states of matter.
 5. To understand the solutions.
 6. To understand the chemical equilibrium.
 7. To understand the redox reaction.
 8. To understand the electrochemistry.
 9. To understand the chemical kinetics.
 10. To understand the thermodynamics.

Topics:

Sl. No.	Topic	Class Time	Teaching Methods
1	Introduction to the course, syllabus and objectives	10:00 - 10:30 AM	Lecture
2	History of Chemistry	10:30 - 11:00 AM	Lecture
3	Atomic Structure and Bohr's model	11:00 - 11:30 AM	Lecture
4	Periodic Table	11:30 - 12:00 PM	Lecture
5	Chemical Bonding	12:00 - 12:30 PM	Lecture
6	States of Matter	12:30 - 1:00 PM	Lecture
7	Solutions	1:00 - 1:30 PM	Lecture
8	Chemical Equilibrium	1:30 - 2:00 PM	Lecture
9	Redox Reaction	2:00 - 2:30 PM	Lecture
10	Electrochemistry	2:30 - 3:00 PM	Lecture
11	Chemical Kinetics	3:00 - 3:30 PM	Lecture
12	Thermodynamics	3:30 - 4:00 PM	Lecture

Fig.2.2.1.12: Sample Lesson Plan

5. Internal exam and External exam question papers:

Inclusion of previous year external exam question papers and internal exam question papers in the course file holds several significant benefits like understanding exam pattern, self assessment, content coverage and time management. Also provides guidance and support for el

G. Narayanamma Institute of Technology & Science
(Autonomous) (for Women)
Skilpuri, Hyderabad- 500 104

BI-B.Tech II Sem I Mid Examination APRIL '23.

Subject Name : Power Electronics

Branch: EEE

Sub code: PE1160H

Max. Marks: 20

Time: 02 Hours

Date: 12.04.2023 (FN)

Note:

1. Question paper comprises of Part A and Part B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B (for 15 marks) consists of five questions. Each question carries 3 marks and may have a.b.c as sub questions. The student has to answer any three full questions.

Bloom Taxonomy Levels:

Level 1 – Remembering, Level 2 – Understanding, Level 3 – Applying, Level 4 – Analyzing, Level 5 – Evaluating, Level 6 – Creating

PART-A

(Answer all questions in PART-A)

(10 Marks)

S.No	Question	Marks	CO	BT Level
1	(a) Name various semiconductor switches used in Power Electronics?	[1M]	CO1	1.1
	(b) What is forward biasing?	[1M]	CO1	1.1
	(c) Define latching current?	[1M]	CO1	1.1
	(d) Mention various triggering methods of SCR?	[1M]	CO6	1.1
	(e) What is commutation in power electronics circuits?	[1M]	CO6	1.1
	(f) Define circuit turn off time?	[1M]	CO2	1.1
	(g) Mention the sufficient conditions to turn off SCR?	[1M]	CO1	1.1
	(h) What is snubber circuit?	[1M]	CO2	1.2
	(i) What is the advantage of freewheeling diode?	[1M]	CO2	1.2
	(j) What is the difference between half controlled and half wave controlled converter?	[1M]	CO6	1.2

END OF PART-A

1.

PART-B*(Answer all questions. Each question carries 3 marks)**[15 Marks]*

Question	Marks	CO	BT Level
(Q.2)(a) Draw V-I characteristics of SCR and explain its various operating modes.	3	CO1	L2
(b) Compare the characteristics of SCR and IGBT.	2	CO1	L1
(Q.3)(a) With the help of waveforms, explain the operation of Class-D commutation circuit.	3	CO6	L2
(b) Explain two transistor analogy of a SCR and hence derive the expression for anode current.	2	CO6	L2
(Q.4)(a) Explain the operation of single phase half wave controlled rectifier feeding RL-load. Draw the output voltage and current waveforms for $\alpha = 45^\circ$.	3	CO2	L4
(b) A single phase fully controlled bridge converter is supplied from 230V 50Hz source. It is feeding a load of $R=20\Omega$ and large inductance so that the load current is constant. For a firing angle of 60° , calculate rms output voltage and input power factor.	2	CO2	L3
(Q.5)(a) Explain the operation of single phase midpoint type full wave rectifier feeding RL load. Draw the output voltage and current waveforms for $\alpha = 60^\circ$	5	CO2	L4

2

inverting continuous conduction and derive the equation for average output voltage.			
(Q.6)(a) Explain the operation of three phase full wave rectifier feeding R-load. Draw the output voltage waveform for the output voltage for $\alpha = 60^\circ$. Derive the expression for the average output voltage. Also draw the firing diagram.	5	CO2	L4

END OF PART B
END OF THE QUESTION PAPER

GNTS-0: 18 - 18000				
G. Narayanaswami Institute of Technology & Science (Autonomous) (for Women) Sulagani, Hyderabad- 500 084				
III-B.Tech II-Semester Regular Examinations, July-2021				
POWER ELECTRONICS (Electrical and Electronics Engineering)				
Max. Marks: 70			Time: 03 Hours	
(Answer any 04/05 questions. Each question carries 14 marks)				
Q.No.	Question	Marks	CO	Blom's Level
Q.1(a)	Identify the requirements of various power semiconductor in power SCB.	07	CO1	(L1)
(b)	Discuss the operation of Class-A commutation circuit using the function of each commutation component.	07	CO2	(L2)
Q.2(a)	Derive the operation of a single phase half wave controlled converter and derive the operation for a charge current in case of RL-load.	07	CO1	(L2)
(b)	The half wave controlled bridge inverter has an ac input of 110V rms at 50Hz and a RL load in series. The delay angle is 90°. Determine i) average load voltage ii) average load current and iii) RMS load voltage.	07	CO1	(L2)
Q.3(a)	List out the advantages of full controlled converter over half controlled converter.	07	CO1	(L1)
(b)	With a neat sketch, explain about the operation of single phase dual converter.	07	CO1	(L2)
Q.4(a)	Write short notes on step up and step down chopper with a neat diagram.	07	CO1	(L2)
(b)	A step up chopper has input voltage of 220 V and output voltage of 300 V. If the non-conducting time of thyristor chopper is 100 micro sec voltage, the pulse width of output voltage. Is this the pulse width is suited for constant frequency operation, find the new output voltage.	07	CO1	(L2)
Q.5(a)	Discuss the operation of buck boost regulator.	07	CO1	(L2)
(b)	Briefly explain the operation of boost chopper and draw the relevant waveforms.	07	CO1	(L2)
Q.6(a)	With the help of waveforms, explain the operation of 1- Φ full bridge inverter.	07	CO4	(L2)
(b)	Describe about the pulse width modulated current and sinusoidal pulse width modulated current.	07	CO4	(L2)
Q.7(a)	Explain the operation of single phase bridge type step down cycloconverter with the help of waveforms.	07	CO5	(L2)
(b)	Elucidate between an ac voltage controller and cycloconverter, with respect to operation and control aspects.	07	CO5	(L2)
Q.8(a)	Categorize the different modes of operation of a ZVSIC. Mention its applications.	07	CO5	(L2)
(b)	Derive all the necessary equations for the operation of a single phase ac voltage controller with RL load.	07	CO5	(L2)

Fig.2.2.1.13: Sample Internal and External Exam Question Papers

6. Time Table:

Time table provides a structured framework for organizing and managing academic activities within an educational institution. A class timetable helps organize and structure the timing and sequence of different classes throughout the academic week or semester. Educational institutions designed class timetable.

7. Assignment Questions

Assignment questions included in the course file are essential for promoting active learning, assessing student progress, providing feedback, developing skills, motivating students and documenting learning outcomes. They play a critical role in the teaching and learning process.

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (FOR WOMEN)
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 III/IV B. TECH II SEMESTER SEC. 'B'
 POWER ELECTRONICS ASSIGNMENT

ASSIGNMENT - I
 SUBMIT ON OR BEFORE 08.04.2023

1. Draw V-I characteristics of SCR and explain various modes of operation. [CO1] L2
2. With the help of waveforms explain Class - C and Class -D commutation circuits. [CO6] L3
3. Explain the operation of single phase half wave with RL load. Draw the output voltage and output current waveforms. [CO3] L4
4. Explain the operation of single phase full converter feeding RLE load. Draw the output voltage waveforms for discontinuous mode of operation. [CO3] L4
5. With the help of waveforms, explain the operation of three phase full converter connected to RL load. Draw output voltage waveforms for firing angle 30° , 60° and 90° . [CO3] L4

Fig.2.2.1.14: Sample Assignment

8. Unit wise Lecture Notes

Unit wise Lecture notes serves as a reference material for students, promoting active learning and ensuring consistency and continuity in content delivery.

9. Content Beyond Syllabus

Content beyond the syllabus can enrich the learning experience, promote depth of understanding, encourage curiosity and inquiry, cater to diverse learning styles, encourage self-directed learning and promote innovation and creativity.

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

After Mid - I examinations, the students performance is assessed and based on their score, they are identified as Advanced and Slow learners. If a student scores less than 40% of marks in a subject then that student is identified as a slow learner and if score is above 80% of n

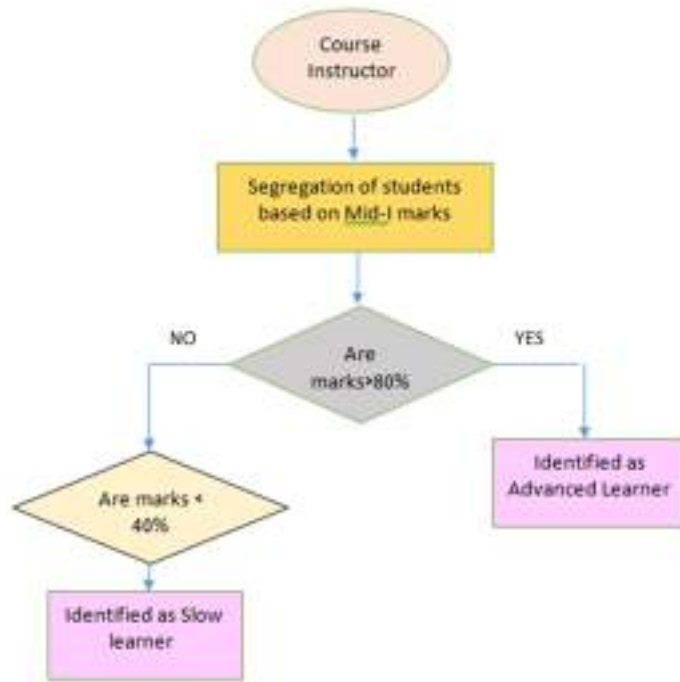


Figure 2.2.1.15: Identification of Slow and Advanced Learners

i. Methods adopted to improve Slow Learners:



Fig.2.2.1.16: Tools to support to slow learners

Each subject teacher take appropriate steps to ensure the development of Slow learners. After identifying the slow learners, the individual subject teacher provides the students with:

Question bank:

A set of questions which are most probable in the semester exam or questions from important topics of a unit are given to slow learners. Providing such question bank can be a helpful strategy to guide their studying and preparation for the semester exam.

Practice assignments:

Slow learners are given a series of numerical exercises to practice, enabling them to tackle similar questions confidently during the semester exam.

Tutorials:

For certain subjects, a one-hour tutorial session is held weekly to review the weeks material and engage students in solving numerical problems related to the topics covered.

Counselling:

For 15-16 students one faculty is allotted as mentor who counsels the students on a regular basis in a semester to find about the issues, concerns, fear factors of the student and provides suitable suggestions to overcome those concerns. Slow learners may experience frustrati environment where they can express their feelings, receive validation and develop coping strategies to manage emotions related to academic difficulties. If a student is found to be emotionally disturbed, the student is referred to on-campus counselling psychologist so that all th

The figure displays two pages of a counselling record. Each page contains a table with columns for 'Date', 'Time', 'Topic', 'Status', and 'Remarks'. Below the table, there are sections for 'Student's Concerns', 'Counsellor's Observations', and 'Counsellor's Suggestions'. The records show a student's progress over time, with dates ranging from 2023 to 2024. The student's concerns include issues related to academic performance and personal life. The counsellor's observations and suggestions are detailed in the respective sections.

Fig.2.2.1.17: Sample Counselling Record

GNIES		GNIES-D / EEE / ERW	
Encouragement for Bright & Weak Students		Department: EEE	

COUNSELING REPORT OF WEAK STUDENTS

Batch: 2022 - 26 Subject: Field Theory and NC Machines
 AY: 23 - 24 Year, Section: EEEV II Date: 27-02-24

The following students of B. Tech EEE II/IV Sec - II have scored less than 18 out of 30 marks in MID I. They have been identified as weak students and counseling session is conducted for them individually addressing their difficulty in understanding the subject. The reasons for less marks and suggestions by faculty are summarized below.

S. No	Roll No.	Marks	Reason(s) for less marks in Mid Exam	Suggestions by the faculty for improvement	Student Signature
1.	22251A0272	18	I can't do this well due to	Concentrate more	Harsha
2.	22251A0285	14	I was not well	Be regular	Srinitha
3.	22251A0283	18	I will improve next time	Try to do more	Yashika
4.	22251A0284	16	Due to health issues	Be healthy	Sreenidhi
5.	22251A0287	15	I am unable to prepare well	Do more practice	Vishnu
6.	22251A0289	17	Due to lack of preparation	Prepare well	Abhi
7.	22251A0290	16	I didn't prepare well. I will try to improve next time	Improve concentration	Arushi
8.	22251A03A3	14	Due to family issues I couldn't	Try attention	Poojitha
9.	22251A03A4	14	I will improve	Try to improve	Kanaka
10.	22251A03B1	17	Due to lack of preparation	Prepare well	Prachi
11.	22251A0282	14	Couldn't learn completely	Improve attention	P. Shweta
12.	22251A0285	14	I am unable to study well	Improve concentration	Harsha
13.	22251A0286	17	I am little scared of exams	Give up your fear	Prasanna
14.	22251A0274	14	I will improve	Try to improve	Prachi
15.	22251A0222	16	I can't prepare well	and practice	Arushi
16.	22251A0224	18	I will do well	Do meditation	Arushi
17.	21251A0200	18	I didn't prepare well due to some health problems. I will definitely improve it.	Be healthy	Prachi

Signature of the Faculty: *[Signature]* Head of the Department: *[Signature]*

Fig.2.2.1.18: Sample Counseling report of Slow learners

UNITS
Encouragement for Bright & Weak Students

COURSE/EEE/EDW
Department: EEE

PERFORMANCE IMPROVEMENT IN MID - II

Batch: 2022 - 24
Subject: Fund. Physics and DC Machines
AN: 23 - 24
Year: Section: EEE 23
Date: 23-11-24

The following students of B. Tech EEE (23-24) have shown improvement in MID - II after consulting.

S. No.	Roll No.	MID - I Marks	MID - II Marks
1	22221A02128	16	19
2	22221A02280	14	15
3	22221A02283	18	24
4	22221A02284	16	17
5	22221A02287	15	19
6	22221A02291	17	19
7	22221A02296	16	17
8	22221A02307	14	19
9	22221A02308	14	16
10	22221A02309	17	19
11	22221A02311	17	19
12	22221A02313	15	17
13	22221A02315	16	23
14	22221A02316	17	19
15	22221A02318	15	23
16	22221A02322	16	20
17	22221A02324	15	22
18	22221A02325	15	20

Signature of the Faculty: _____
Signature of the Department: _____

Fig.2.2.1.19: Improvement in slow learners

Slip Test:

Educators can adapt their approaches to accommodate diverse learning styles and provide multiple avenues for student success. Slip tests play a valuable role in promoting continuous learning, assessing understanding and supporting student achievement in educational settings

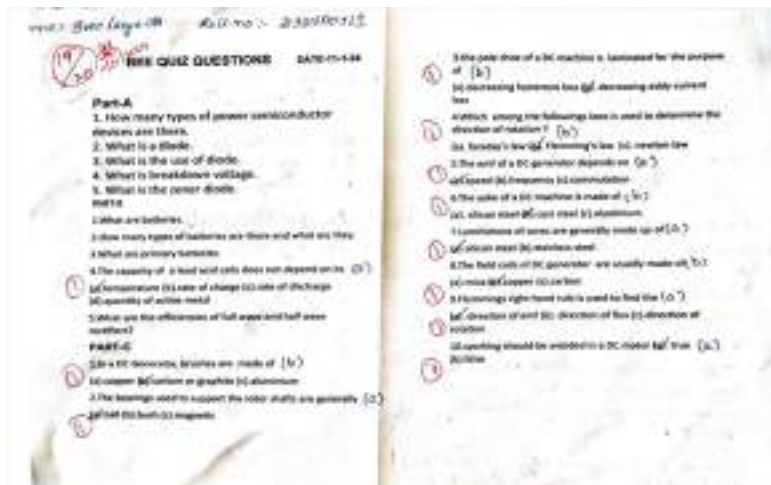


Fig.2.2.1.20: Sample Slip Test

Group discussions:

Group discussions provide a collaborative learning environment that can be particularly beneficial for slow learners by fostering active engagement, peer interaction, different perspectives, improving communications skills, enhanced critical thinking and skill development.

Group Discussion

Topic: Differences between Synchronous and Asynchronous Machines

Students I B, VIII B from C/AD-A have actively participated in Group Discussions and have come up with the following conclusions as per their discussion. This process involved the students to pair and share their thoughts.

PARAM	SYNCHRONOUS MACHINE	ASYNCHRONOUS MACHINE
Definition	Synchronous motor is a machine whose rotor speed and the speed of the stator magnetic field is equal.	Asynchronous motor is a machine whose rotor rotates at the speed less than the synchronous speed.
Type	Induction motor, Variable Reluctance Motor, Synchronous Reluctance Motor and Permanent Magnet are the synchronous motor.	AC Induction Motor is known as the Asynchronous Motor.
Slip	Does not have slip. The value of slip is zero.	Have slip because the value of slip is not equal to zero.
Additional power source	It requires an additional DC power source to initially rotate the rotor until it the synchronous speed.	It does not require any additional starting source.
Slip ring and brushes	Slip ring and brushes are required.	Slip ring and brushes are not required.
Cost	Synchronous motor is costly as compared to an asynchronous motor.	



Fig.2.2.1.21: Group Discussion

Guest Lectures:

Guest lectures often bring real-world experiences and practical examples that can make abstract concepts more tangible and easier to understand for slow learners. This relevance can enhance their comprehension and retention of the material. Meeting and learning from profess Guest lectures can help them see the potential applications of their studies, motivating them to overcome learning obstacles.



Fig.2.2.1.22: Guest Lecture

ii. Methods to enrich Advanced Learners



Fig.2.2.1.23: Opportunities for Advanced learners

- Advanced learners are encouraged and advised to take part in co-curricular activities, Hackathons, NPTEL courses, Internships and Workshops for the holistic development and preparing for success in various aspects of their life.
- They are also supported to undergo value added courses, journal/ patent publications and placements.
- To allow the students to diversify their skills by studying secondary subject of interest, they are recommended to register for Minor degree course.
- Every year, during 'Engineer's day celebrations' students with all – round talent, program wise, are presented with "Young promising engineer award" consisting cash prize and certificate.

- The Program toppers are felicitated with Gold medals and merit certificates during Annual Day celebrations. Also, Cash awards and proficiency certificates are presented to class toppers. Students having highest attendance are also presented with certificate and cash awa



Fig.2.2.1.24: NPTEL Certificate

4. SARAVANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)
Accredited by NBA & NAAC, Shoolagur, Hyderabad
Department of Electrical & Electronic Engineering

Summary: Paper/Pastors/Workshops/Conferences attended by Students (2023-24)

Title	No of students got 1 st place	No of students got 2 nd place	No of students got 3 rd place	No of students participated
IEEE WIE top Technical club		1		3
Workshops				9
Conferences				2
Workshops	1			3
Value added courses				12
Young Engineer Award				1
Spice	2	1		2
Technical quiz				2
Most brilliant				1
Innovation cell				1
Code quest				2
Networking and training				2
Science Expo	1			
volunteer				5

Dr. Srinivas
Dr. Srinivas

Fig.2.2.1.25: Hackathons attended



G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(For Women)
(AUTONOMOUS)
Shakrpet, Hyderabad-500194

Department of EEE

List of students Received Young Engineer Award

Academic Year	Name of Student	Roll Ticket NO.	Award
2023-24	Rani Deepthi Goud	20251A0204	Young Engineer Award
2022-23	B.Raja Sakshari	19251A0267	Young Engineer Award
2021-22	Navya Madhuri	18251A0233	Young Engineer Award
2021-20	Sankshu Sriharsha	16251A0248	Young Engineer Award
2018-19	A.Dhya	15251A0201	Young Engineer Award

Fig.2.2.1.26: List of Young Engineer Awardees

Name of the course/program me	Course/programm e Code (if any)	Mode of the Course- offered by the HEI or Online (Specify the platform like MOOCS, SWAYAM, etc.)	Year of offering /Year of enrolment	Contact hours of course	Number of students enrolled in the year	Number of Students completin g the course in the year
Value Added Course on Electric Vehicle Technology	GNITS/EEE/VAC/2022-23/01	offline	2022-23	50	167	167
Design of Digital Circuits using Verilog HDL	GNITS/EEE/VAC/2021-22/01	offline	2021-22	50	15	15
Value added course on Electric Vehicle Technology	GNITS/EEE/VAC/2021-22/02	offline	2021-22	50	57	56

Fig.2.2.1.27: List of Value Added Courses

	Roll NO	Student Name	CGPA
2020-21	18255A0218	Chiluka Hema Kumari	8.61
2021-22	18251A0235	D.H. Padma	9.65
2022-23	19251A0282	Kasarla Supraja	9.68

Fig.2.2.1.28: List of Gold medal winners

Chitwan College of Education (Formerly)
Department of Electrical-Electronics Engineering

FINAL LIST of Minor Degree by students of KEE for A.Y. 2023-2024, Sem-I
(01-30-04-2023)

S.No	Email Address	Name	Section	Roll number	Choice of B.Tech Minor Degree
1	raj7011@gmail.com	R Krishna Paul	A	2121A0201	Artificial Intelligence and Machine Learning
2	ajayraman177@gmail.com	M Rajan	A	2121A0202	Artificial Intelligence and Machine Learning
3	anushanbharam@gmail.com	S1 Vishwanth Baburamjan	A	2121A0204	Artificial Intelligence and Machine Learning
4	ayush118@gmail.com	G Vishwanth	A	2121A0205	Artificial Intelligence and Machine Learning
5	ganagan1616a204@gmail.com	Chandana Nishita	A	2121A0206	Artificial Intelligence and Machine Learning
6	anayash1@gmail.com	B Tejas	B	2121A0207	Artificial Intelligence and Machine Learning
7	anushanbharam181@gmail.com	Chaitanya Shree	B	2121A0208	Artificial Intelligence and Machine Learning
8	prayansh1204@gmail.com	Prayansh	B	2121A0209	Artificial Intelligence and Machine Learning
9	anusha@gmail.com	Sudhakar	B	2121A0210	Artificial Intelligence and Machine Learning
10	anushanbharam191@gmail.com	Prayansh	B	2121A0211	Artificial Intelligence and Machine Learning
11	anushanbharam201@gmail.com	Karthik Lakshya	B	2121A0212	Artificial Intelligence and Machine Learning
12	anushanbharam211@gmail.com	V Krishna Subhakar Paul	B	2121A0213	Artificial Intelligence and Machine Learning
13	anushanbharam221@gmail.com	T Nishita	B	2121A0214	Artificial Intelligence and Machine Learning
14	anushanbharam231@gmail.com	Prayansh	B	2121A0215	Artificial Intelligence and Machine Learning
15	anushanbharam241@gmail.com	M Anusha Chaitanya	B	2121A0216	Artificial Intelligence and Machine Learning

Fig.2.2.1.29:List of Minor degree

Academic Year	MS	M.Tech	MBA
2020-21	10	2	3
2021-22	9	2	-
2022-23	4	-	1

Fig.2.2.1.30: Summary of Higher Studies

Academic Year	Class Toppers	Attendance Toppers	Best Placement Package	Best Major Projects	Best Mini Projects	Top Rankers
2020-21	26	28	3	6 batches	6 batches	4
2021-22	24	23	3	6 batches	6 batches	3
2022-23	40	41	4	4 batches	4 batches	3

Fig.2.2.1.31: Summary of Free ships

D. Quality of classroom teaching(2):

The quality of classroom teaching is key to the success of the educational system and the overall development of students. It plays a significant role in promoting love for learning.

The following measures are taken to ensure good quality classroom teaching:

- In today's era, mastering the latest technologies is crucial for students to prepare themselves for the corporate world. As a consequence, teachers are using ICT tools to enhance and optimize the delivery of education.
- All Classrooms and certain laboratories are furnished with LCD projectors and desktop computers in addition to traditional blackboards. Additionally, a limited number of classrooms feature smart boards.
- Online classes are conducted using software such as Microsoft Teams, Zoom, and Google Meet when deemed necessary.
- Students have access to recorded video lectures through Impartus lecture capture facility for long-term learning and future reference purposes.
- The head of the Department regularly visits the class rooms and observes the teaching process and delivery of content.
- Along with HoD, some of the senior faculty also observe the quality of the content delivered. Based on the need, the HoD conveys suggestions to the teacher for improvement.
- To make the classroom interactive, students are encouraged to present seminars on the topics from the syllabus.
- Typical problems from old question papers and standard text books are discussed in the classroom.
- In few subjects, real time examples are explained with the help of video lectures.
- For some courses, concepts are demonstrated with the help of models.
- All the classrooms are spacious, well furnished and ventilated which makes the students stay very comfortable.



Fig.2.2.1.32: Class Room Photos

D. Conduct of Experiments (2):

- All Laboratories are well equipped and self sufficient to meet the requirements of the syllabus.
- All the faculty are well qualified, experienced and technicians are also well trained.
- Lab manuals are made available before start of the semester itself to help the students to come prepared for conduct of the experiments.
- At the beginning of the semester, lab cycles are prepared and displayed in the lab notice boards.
- In the laboratory, 3 or 4 students are allowed to conduct experiment on each working bench except for simulation experiments where one system is allotted for each student.
- According to the curriculum, there will be 2 or 3 laboratory courses in each semester. Based on the necessity 2 or 3 faculty members are allotted for the practical classes.
- Continuous Internal Evaluation of observation and record is done by the faculty on regular basis.
- The flowing Fig. 2.2.1.33 shows process of conduction of Lab courses.

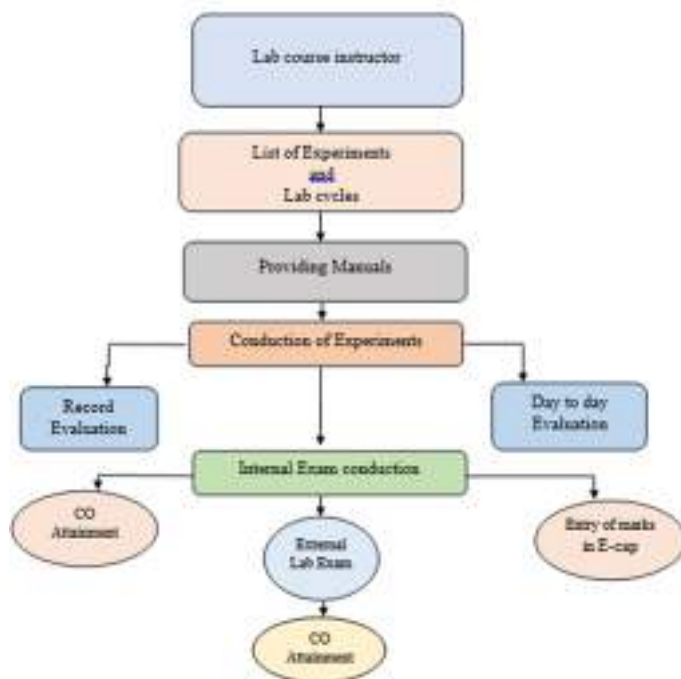


Fig. 2.2.1.33 Flow chart for process of conduction of Lab courses

F. Continuous Assessment in the Laboratory(3):

Day to Day evaluation procedure is implemented for the assessment of the laboratory work of the students.

The assessment is done based on the involvement of the student in the conduct of experiment, maintenance of Observation book, Viva and Record work.

For Continuous Internal Evaluation, 30 marks are allotted of which 20 marks are for Day to Day evaluation and 10 marks are for Internal lab exam.

Every faculty member handling the practical course, will maintain the CIE record of each student. The following tables explain the division of marks for Day to Day evaluation and Continuous Internal Evaluation.

Table 2.2.1.2:

Day to Day Evaluation of Practical Course:

Observation (5M)	Experiment (5M)	Viva Voce(5M)	Record (5M)	Total (20M)

Table 2.2.1.3:

Continuous Internal Evaluation:

Day to Day Evaluation (20M)	Internal Examination (10M)	Total (30M)

Fig. 2.2.1.34 Day to Day evaluation of Lab courses

G. Student feedback of teaching learning process and Action taken(2):

Feedback from the students is collected in three different stages:

1. Feedback on the faculty after completion of each course.
2. Feedback on overall facilities after completion of the program.
3. Exit Survey on POs

The questionnaire of Feedback on course instructor about various aspects of teaching-learning collected from each student through online at the end the course.



Fig. 2.2.1.35 E-cap login for feedback

Questionnaire of Feedback

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

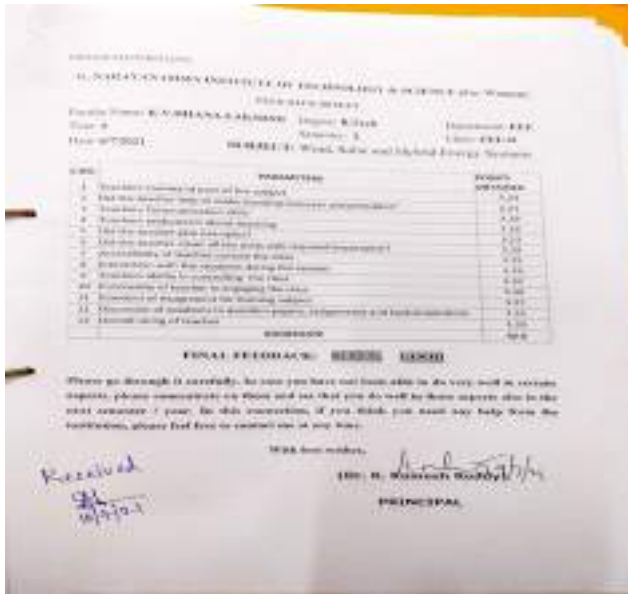


Fig.2.2.1.36 Sample Feedback on faculty

In addition, Class Review Committee Meeting comprising of Dean Academics, Head of the Department, Class Representatives and few selected students will be conducted twice in a semester, one before Mid – I and another before Mid – II examinations. During this meeting, f



Fig.2.2.1.37: CRC circular

G. NARAYANAM INSTITUTE OF TECHNOLOGY AND SCIENCE
(Autonomous)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Academic Year 2023-24

MINUTES OF THE CLASS REVIEW COMMITTEE MEETING ON 20-10-2023

Class: IV B.Tech EEE-A Semester: I

Sl. No	Name of the Theory / Laboratory Course	Faculty Name	No. of classes taken	Coverage of Syllabus and No. of Experiments Completed	Reasons for lagging behind (if applicable)	Details of Extra Classes required, if any	Signature of the Staff with date
1	Power System Analysis	R. Suresh Babu	32	60%	-	-	[Signature]
2	Power Electronics	M. Mahalingam	30	40%	-	-	[Signature]
3	Electrical Machines	R. Nagarajan	40	30%	-	-	[Signature]
4	Control Systems	G. Suresh Babu	40	50%	-	-	[Signature]
5	Linear Algebra	T. Srinivasan	32	40%	-	-	[Signature]
6	Discrete Time Systems	M. S. Suresh Babu	30	40%	-	-	[Signature]
7	PS-2-AB	R. Nagarajan	40	40%	-	-	[Signature]
8	Maths Projects	D. Venkatesh Babu	34	100%	-	-	[Signature]

Notes of the Student

1. [Signature]	Signature	Name of the Student	Signature
2. [Signature]	[Signature]	S. Sri. Deepthi	[Signature]
3. [Signature]	[Signature]	6. Manasa. Ganesh	[Signature]
4. [Signature]	[Signature]	7. Tharun. Aravind	[Signature]
		8. [Signature]	

Signature of the Staff: **V. R. S. [Signature]**
Dean Academics/Principal

Co to: 1. Dept. Ho
2. Principal
3. Dean Academics
4. JAC

Feedback:
1. All Subject Syllabus Coverage is good
2. No issues raised from Students

Fig.2.2.1.38: CRC Minutes

Feedback on overall facilities is collected from the students at the end of the program in the following format. This feedback on the overall facilities of an institute is essential for continuous improvement, ensuring stakeholder satisfaction and meeting institutional goals.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
2023-2024

Feedback Form

Name: _____ Roll No: _____

Course: _____ Semester: _____

Department: _____

Faculty: _____

Class: _____

Feedback Form

1. How do you rate the overall facilities of the institute?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

2. How do you rate the quality of the faculty?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

3. How do you rate the quality of the infrastructure?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

4. How do you rate the quality of the library?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

5. How do you rate the quality of the sports facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

6. How do you rate the quality of the hostel facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

7. How do you rate the quality of the canteen facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

8. How do you rate the quality of the medical facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

9. How do you rate the quality of the security facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

10. How do you rate the quality of the other facilities?

Very Good (V) Good (G) Fair (F) Poor (P) Very Poor (VP)

Signature of the Student: _____

Date: _____

Fig.2.2.1.39 . Feedback on overall facilities

Impact Analysis:

Faculty members who not only secure a 100% pass rate among their students but also receive excellent online feedback are duly recognized by the authorities and management for their exemplary teaching endeavours. Such feedback serves as an important assessment criteria shown improvement in their performance in subsequent semesters.

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

L. A. Process for internal semester question paper setting and evaluation and effective process implementation(3)

i. Question paper setting

Several initiatives have been implemented both at the Institutional and Departmental levels to enhance the quality of Question Papers. Questions of Mid term Examinations and Semester End Examination are framed with consideration to Blooms Taxonomy Levels (BTL) and C. The Internal Quality Assessment Cell consisting of Central Co-ordinator and Department Co-ordinators formulates guidelines for maintaining the quality of Question Papers (QP) and the same is circulated among the faculty members of all departments for implementation. The Blooms Taxonomy levels (BTL) in accordance with the guidelines issued.

Accordingly the following guidelines are followed in the department for setting the Question Papers.

- Every question must map to at least one course outcome.
- Every question must be framed to map with at least one Blooms Taxonomy level.

The questions are set to test the following criteria:

a) Course Outcomes:

Conceptual knowledge
Analytical / Reasoning
Problem solving / Application oriented

b) Blooms Taxonomy:

Remembering, Understanding, Applying, Analyzing, Evaluating, Creating

The following Fig. 2.2.2.1 shows Blooms Taxonomy levels.

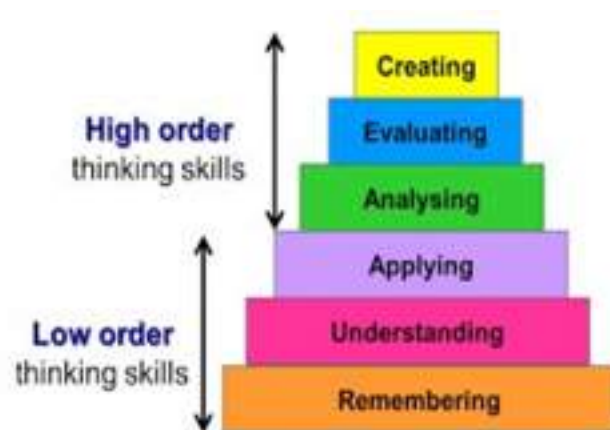


Fig. 2.2.2.1 : Blooms Taxonomy levels

Along with Question Paper, Internal Quality Assessment form, mapping questions to Course Outcomes, Blooms Taxonomy levels indicating percentage of mapping and distribution of marks is to be submitted in the prescribed format as per IQAC guidelines.

Each semester comprises two midterm examinations, conducted after eight weeks of instruction. The first midterm assesses 50% of the syllabus, while the second exam covers the remaining 50% of the coursework.

- The course instructors of both sections A & B will set two sets of question papers by following Blooms Taxonomy Level (BTL) and mapping questions with Course Outcomes.
- One set of question paper will be selected by HOD or senior faculty member from the two sets of papers which then will be submitted to department examination branch.
- A copy of selected question paper alongwith IQAC form is filed in the department for future reference.
- Every paper, even if not selected, is also filed a for future reference and potential use.

The following Fig. 2.2.2.2 shows the procedure for conduction of Mid examinations.

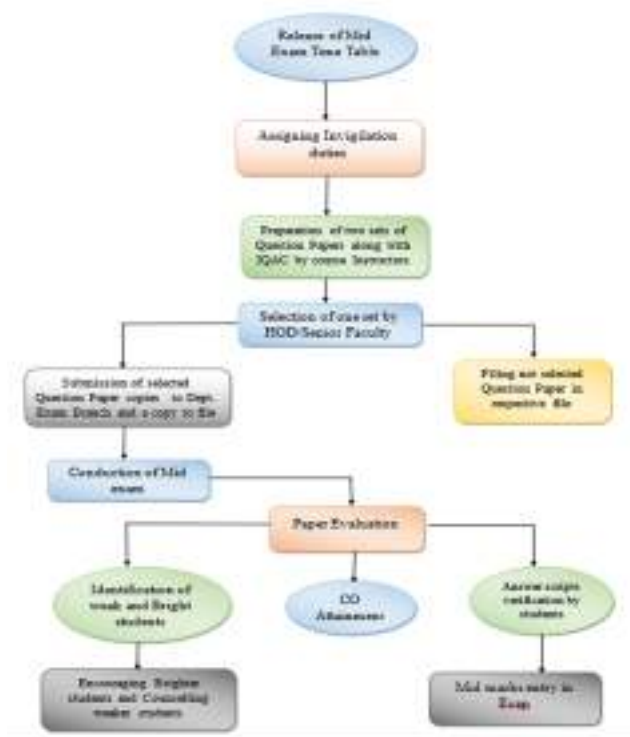


Fig. 2.2.2.2 : Procedure for conduct of Mid Examinations

ii. Continuous Internal Evaluation (CIE)

- Each mid-term examination consists of one Objective section for 10 marks and one Subjective section for 15 marks, with a total duration of 120 minutes. Further, there shall be an allocation of 5 marks for each Assignment and there shall be 2 Assignments which are given during the semester.
- The first mid-term examination shall be conducted in the middle of the semester for the first 50% of the syllabus and the second mid-term 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 second mid term examination. The Assignment shall be as specified by the subject teacher concerned.
- The first mid-term examination marks and the first Assignment Marks combined together shall make one set of CIE marks, and the second mid-term examination marks and the second Assignment Marks shall make the second set of CIE marks; and the AVERAGE of the Continuous Internal Evaluation (CIE) in that Theory Subject.

Table 2.2.2 Template of Consolidated Mid examination marks for theory courses

S.No	Roll.No.	Mid-I (25M)	AS- I (5M)	CIE- I = (Mid- I + AS- I) (30M)	Mid- II (25M)	AS- II (5M)	CIE- II = (Mid-II + AS- II) (30M)	Total Marks= Average = (CIE-I+ CIE- II) /2 (30M)

After conducting mid term examinations based on the performance of the students, they are identified as Fast learners and Slow learners as detailed below in Fig. 2.2.2.3

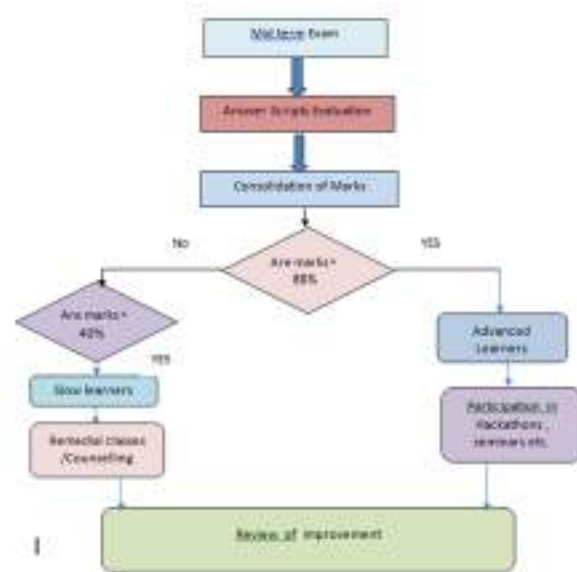


Fig. 2.2.2.3 : Identification of slow and advanced learners

B. Process to ensure questions from outcomes/ learning levels perspective(2)

Each course includes specific objectives and outcomes outlined in the syllabus. All faculty members are instructed to strictly adhere to the following guidelines when preparing the question paper.

1. Every question must map with atleast one CO
2. Every question must align with one BTL

Once the question paper is finalized, the percentage distribution of questions according to Course Outcomes (COs) and Blooms Taxonomy Levels (BTLs) is documented in the IQAC form. This form is then submitted to the Head of the Department (HoD) for approval.

G.Narayanamma Institute of Technology & Science
 (for women)
 Shaikp, Hyderabad-500084
 Department of Electrical and Electronics Engineering
 Mid - 1 IQAC Question paper - IQAC Standard

SUBJECT: EDS
 BRANCH: EEE

DATE: 15-11-23

I. Distribution of marks for Blooms Taxonomy Levels

S.No.	Criteria	Subjective		Objective		Assignment		Total Marks	% of Marks
		Q.No	Marks	Q.No	Marks	Q.No	Marks		
1	Level 1: Remembering					1	1	11	67.5
2	Level 2: Understanding	30, 30, 30	7.5			2	1	8.05	47.25
3	Level 3: Applying	20, 20	10			3	1	11	67.5
4	Level 4: Analyzing	10, 10	7.5			4, 5	2	9.5	53.75
5	Level 5: Evaluating								
6	Level 6: Creating								

II. Distribution of marks for Course Outcomes

Course Outcomes	Subjective		Objective		Assignment		Total Marks	% of Marks
	Q.No	Marks	Q.No	Marks	Q.No	Marks		
CO 1								
CO 2								
CO 3	20, 20	5m	10, 10	2m	1	1	8m	30%
CO 4	30, 30	5m	10, 10	5m	3	1	9m	33.5%
CO 5	30, 30	5m	10	1m	8	1	7m	17.5%
CO 6	10, 10, 10	10m	10, 10, 10	4m	4, 5	2	16m	60%

Course Coordinator: [Signature]
 Module Coordinator: [Signature]
 Program Coordinator: [Signature]

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Fig. 2.2.2.4 : Sample IQAC form

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

Considerable attention is given in crafting the question paper to ensure that each question in both Part A and Part B aligns with at least one Course outcome (CO) and one Blooms Taxonomy Level (BTL). After the question paper is drafted, the distribution of questions across alignment. The sample question paper clearly shows questions mapping with COs and BTL. The following Fig. 2.2.2.5 and Fig.2.2.2.6 shows sample Question paper, IQAC form and Scheme of valuation for Mid – 1 and Mid – 2 respectively.

G.Narasimma Institute of Technology & Science for women
 Shaikpet, Hyderabad - 500 084
 IV B.Tech II Semester - I MID Examinations Feb -2024

SUBJECT: Power Quality & FACTS Max Marks: 25
 SUBJECT CODE: PE11BIV Time: 1Hr
 BRANCH: EEE&IB Date: 14-02-2024

Bloom's Taxonomy Levels:
 Level 1 – Remembering, Level 2 – Understanding, Level 3 – Applying, Level 4 – Analyzing,
 Level 5 – Evaluating, Level 6 – Creating

PART-A (2X10=20M)

Answer all the questions. Each Question carry one mark

S.No	Question	Marks	CO	BT Level
a.	Define FACTS device.	1	CO1	L1
b.	Why FACTS device is used in ac transmission of the line.	1	CO1	L2
c.	What is reactive power? What is its significance?	1	CO1	L2
d.	What is meant by Shunt Compensation and give the examples.	1	CO1	L2
e.	Classify the different types Static Var Compensator schemes.	1	CO1	L1
f.	Define the TCSC and draw the connection of basic module.	1	CO4	L1
g.	What is meant by Blocked Thyristor Mode.	1	CO4	L1
h.	Classify the different types of Fault current limiter.	1	CO4	L1
i.	What is voltage sourced converters? Why voltage sourced converters are preferred for FACTS applications.	1	CO2	L2
j.	Draw the basic circuit diagram of SSSC based VSC.	1	CO4	L2

PART-B (3X3=9M)

Answer any Three full questions Out of 5 questions. Each question carries 3 Marks

S.No	Question	Marks	CO	BT Level
2a.	Explain how the various FACTS Controllers will improve the performance of power system.	3M	CO1	L4
2b.	Explain the power flow in parallel paths in an AC system.	2M	CO1	L2
3a.	Explain how midpoint voltage regulation of a transmission line increases the power transfer capacity of the lines with Series compensation with neat diagram	3M	CO1	L3
3b.	Distinguish between shunt connected controllers with series connected controllers.	2M	CO1	L2

Roll

4a.	Discuss the operation of Thyristor Controlled Reactor type VAR generator.	3M	CO4	L2
4b.	Draw the circuit diagram of Thyristor Switched Capacitor – Thyristor Switched Reactor and also characteristic var demand vs output.	2M	CO4	L2
5a.	Explain the working, operating V-I characteristics of TCSC operating in reactance control mode with neat diagram	3M	CO4	L4
5b.	Distinguish between super conducting fault current limiter with non-superconducting fault current limiter.	2M	CO4	L2
6.	What is a STATCOM? With the schematic diagram, explain the working and operating V-I Characteristics of STATCOM.	5M	CO2	L3

Selected Roll

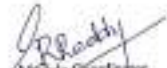
G.Narasimma Institute of Technology & Science
(For Women)
SriRajpet,Hyderabad-500104
Department of Electrical and Electronics Engineering
IV B.Tech II semester I Mid Question paper IQAC Standard
SUBJECT: PQ&FACTS
BRANCH: EEE (A&B) DATE:12-02-2024
I.Distribution of marks for Blooms Taxonomy Levels

S.NO.	CRITERIA	SUBJECTIVE		OBJECTIVE		ASSIGNMENT		TOTAL MARKS	% of Marks
		Q.No	Marks	Q.No	Marks	Q.No	Marks		
1	Level 1: Remembering			1a,1e, 1f,1g, 1h	5		2	10	17.5
2	Level 2: Understanding	2b,3b,4 a,4b,5b, 6	16	1b,1c, 1d,1i, 1j	5		3	24	60
3	Level 3: Applying	3a						3	7.5
4	Level 4: Analyzing	2a,5a						6	15
5	Level 5: Evaluating								
6	Level 6: Creating								
								100%	

II.Distribution of marks for Course Outcomes

COURSE OUTCOMES	SUBJECTIVE		OBJECTIVE		ASSIGNMENT		TOTAL MARKS	% of Marks
	Q.No	Marks	Q.No	Marks	Q.No	Marks		
CO 1	2a,2b,3a, 3b	10	1a,1b,1c,1d,1e	5	2	1	16	40
CO 2	b	5	ii	1	5	1	7	17.5
CO 3					1	1	1	2.5
CO 4	4a,4b,5a, 5b	18	1f,1g,1h,1j	4	3,4	2	18	45
CO 5								
CO 6								
								100%


Course Coordinator


Module Coordinator


Program Coordinator

IV B.Tech II Semester - I Mid Examinations, Nov 2023

Subject: Power Quality & FACTS

Subject Code: PE118FV

Mid-I Schema

PART-A (1X10=10M)

- a) FACTS is defined by (IEEE) as a power electronic based system and other static equipment that provide control of one or more AC transmission system parameters to enhance controllability & increase power transfer capability $\rightarrow 1M$.
- b) Reactive power, improve power transfer capability, voltage control $\rightarrow 1M$.
- c) All of the above $\rightarrow 1M$
- d) Series definition & examples $\rightarrow 1M$
 \hookrightarrow (1/2M) \hookrightarrow (1/2M)
- e) Series device \rightarrow 1/2M, shunt device \rightarrow 1/2M
 \rightarrow \rightarrow $\rightarrow 1M$.
- f) TCR, TSC, FC-TCR $\rightarrow 1M$
- g) characteristic diagram $\rightarrow 1M$
- h) Thyristor base made to fully conduct with a conduction $\rightarrow 1M$
- i) Mentioning atleast 3 types $\rightarrow 1M$
- j) Definition of Self-Commutating converter $\rightarrow 1M$

PART - B (3X15 = 45M)

- 2a) Series controller
 Shunt controller } 3M.
 Combined series & shunt

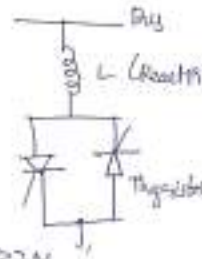
2b :- Loading capability is to considering the ^{contingency} conditions. There are two limitations

- 1) Thermal limit $\rightarrow M$
 2) stability limit $\rightarrow M$

- 3a) objectives of shunt compensation $\rightarrow M$
 Mid point Shunt compensation diagram with derivation $\rightarrow 2M$

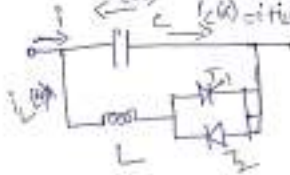
- 3b) difference b/w shunt compensation & series (minimum 3 points each) $\rightarrow 2M$

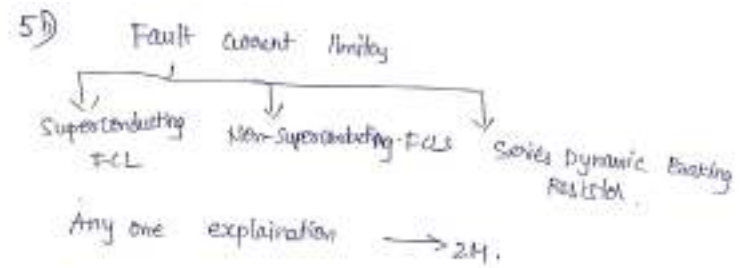
- 4a) Explain the operation of TCR
 For operation $\rightarrow 2M$
 Diagram $\rightarrow 1M$



- 4b) TCR cannot contains odd harmonics
 Any two thresholds $\rightarrow 2M$

- 5a) $v_c(t)$ $i_c(t) = i_{T1}(t)$
 explanation of operation & each component $\rightarrow 2M$
 Diagram $\rightarrow 1M$





6a) Explanation of VSC \rightarrow 2M
circuit diagram with waveforms \rightarrow 3M.

Fig. 2.2.2.5 Sample Mid-1 Question Paper with IQAC and Scheme

J. Narayana Institute of Technology & Science for women
Sholapur, Hyderabad - 500 104
IV B.Tech II Semester – II Mini Examination May, 2023

SUBJECT: Power Quality FACTS
SUBJECT CODE: PEE507Y
BRANCH: EEE/EAI/E

Max Marks: 25
Time: 20r
Date: 10-05-2023

Bloom Taxonomy Levels:
Level 1 – Remembering, Level 2 – Understanding, Level 3 – Applying, Level 4 – Analyzing,
Level 5 – Evaluating, Level 6 – Creating

PART-A (10X1=10)

Answer all the questions. Each Question carry one mark

Q.No.1	Questions	Marks	CO	BT Level
a.	Classify the different compensating devices used in the transmission system.	1	CO1	L4
b.	What is meant by STATCOM?	1	CO4	L3
c.	Define Power Quality	1	CO3	L1
d.	What is Voltage sag and cause of voltage sag	1	CO5	L3
e.	Compare between the inductive and Capacitive transients	1	CO5	L3
f.	Define transient duration's in power quality	1	CO5	L3
g.	What is Reactive power compensation in distribution system	1	CO6	L2
h.	What is meant by CFO	1	CO6	L3
i.	How the D-STATCOM will mitigate the effect of unbalanced voltage and harmonics	1	CO6	L3
j.	Difference between UPFC & UPQC	1	CO5	L4

PART-B (3X5=15)

Answer any Three full questions Out of 5 questions. Each question carries 5 Marks

S.No	Question	Marks	CO	BT Level
2a	With the help of V-I characteristics, explain the operation of STATCOM	5M	CO1	L3
2b	Explain the principle and operation of SSSC with neat sketch	5M	CO4	L3
3	Explain the working principle of UPFC in detail	5M	CO4	L3

Solved
M
10/5/23

4a	Explain briefly about the Long term voltage variations	3M	CO5	L2
4b	Discuss about the CIEEMA curve on power quality in detailed	2M	CO5	L4
5a	With a schematic diagram, explain the operating principle of D-STATCOM	3M	CO6	L2
5b	Explain the two operating modes of Dynamic Voltage Restorer	2M	CO6	L3
6	With help of block diagram ,explain about the performance of D-STATCOM using SVP control theory	3M	CO6	L3

Selected
CM
6/8/23

G.Narasimma Institute of Technology & Science
(For Women)

Shikpct,Hyderabad-500004

Department of Electrical and Electronics Engineering

IV B.Tech II semester II Mid Question paper - IQAC Standard

SUBJECT: PQ&FACTS

DATE:10-05-2023

BRANCH: EEE (A&B)

I.Distribution of marks for Bloom Taxonomy Levels

S.NO.	CRITERIA	SUBJECTIVE		OBJECTIVE		ASSIGNMENT		TOTAL MARKS	% of Marks
		Q.No	Marks	Q.No	Marks	Q.No	Marks		
1	Level 1: Remembering			1c,1f	2			2	5
2	Level 2: Understanding	2a,2b,3,4a,5a	16	1b,1d,1e,1g,1h	5	3	24	60	
3	Level 3: Applying	5b,6	7	1i	1	2	10	25	
4	Level 4: Analyzing	4b	2	1a,1j	2		4	10	
5	Level 5: Evaluating								
6	Level 6: Creating								
									100%

II.Distribution of marks for Course Outcomes

COURSE OUTCOMES	SUBJECTIVE		OBJECTIVE		ASSIGNMENT		TOTAL MARKS	% of Marks
	Q.No	Marks	Q.No	Marks	Q.No	Marks		
CO 1			1a	1			1	2.5
CO 2								
CO 3								
CO 4	2a,2b,3	10	1b	1	3	14	35	
CO 5	4a,4b	5	1c,1d,1e,1f	4	1	10	25	
CO 6	5a,5b,6	10	1g,1h,1i,1j	4	1	15	37.5	


Course Coordinator


Module Coordinator


Program Coordinator

IV B.Tech II semester II mid Examination

Subject: Power Quality & FACTS

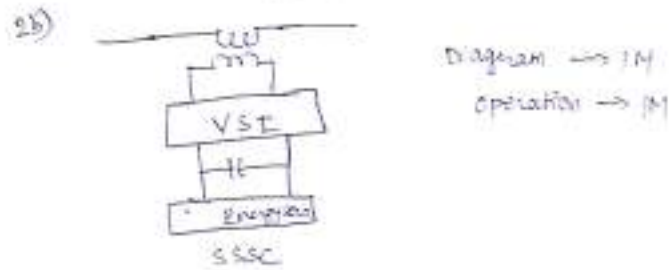
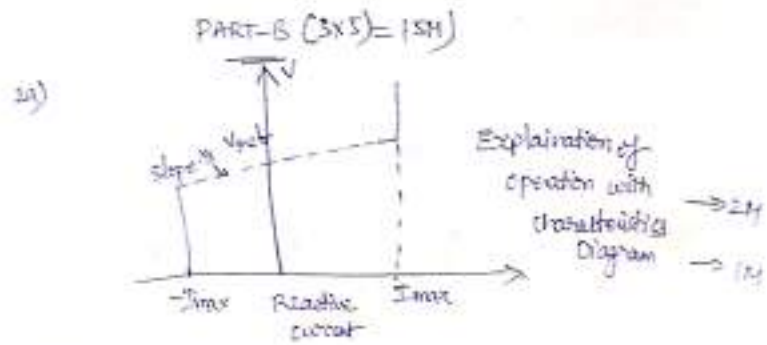
Subject code: PEDAEV

Mid-II Scheme

PART-A (1x10=10M)

- a) Mentioning different compensating devices $\rightarrow 1M$
- b) STATCOM is a static compensator which is a shunt device by injecting current compensate the reactive power & improve voltage profile $\rightarrow 1M$.
- c) power quality definition $\rightarrow 1M$.
- d) Voltage Sag $\rightarrow \frac{1}{2}M$
causes $\rightarrow \frac{1}{2}M$
- e) Impulsive transients $\rightarrow \frac{1}{2}M$
Oscillatory transients $\rightarrow \frac{1}{2}M$
- f) wave form distortion definition $\rightarrow 1M$
- g) About Reactive power compensation $\rightarrow 1M$
- h) custom power device \rightarrow Brief explanation $\rightarrow 1M$

- 1) effect of unbalanced voltage & harmonics in inverter → 1M
- 2) UPFC & LDFC → mention two points → 1M



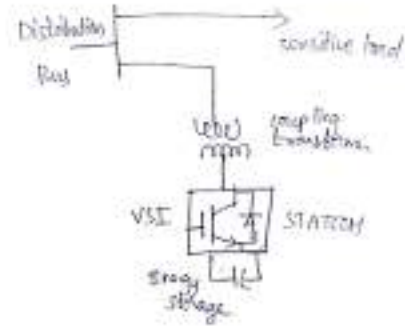
- 3) UPFC diagram → 2M
Explanation → 3M

- 4) Long term voltage variation Explanation → 1M
causes → 1M
effects & solution → 1M

4b) CBEMA Curve diagram $\rightarrow 1M$
 Explanation $\rightarrow 1M$

5a)

Diagram $\rightarrow 1M$
 Explanation $\rightarrow 2M$



5b) diagram $\rightarrow 1M$
 operation Explanation $\rightarrow 1M$

6) SRF Control Hysteresis diagram $\rightarrow 1M$
 Equation & derivation $\rightarrow 2M$
 Explanation $\rightarrow 2M$

Fig. 2.2.2.6 Sample Mid-2 Question Paper with IQAC and Scheme

D. Quality of assignment and its relevance to Cos(5)

Assignments play an important role in the ongoing assessment process where the questions based on the application and analysis of subject which helps students to enhance their learning skills.

In order to enhance the knowledge levels of the students, Assignments are given twice in the semester, one before mid -1exam and second before mid-2 exam.

Similar to midterm examinations, the questions in the assignments are also aligned with Course Outcomes. These assignments are evaluated for 5 marks each.

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (FOR WOMEN)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
III/IV B. TECH II SEMESTER SEC - 'B'
POWER ELECTRONICS ASSIGNMENT

ASSIGNMENT - I
SUBMIT ON OR BEFORE 08.04.2023

1. Draw V-I characteristics of SCR and explain various modes of operation.
[CO1] L2
2. With the help of waveforms explain Class - C and Class -D commutation circuits.
[CO6] L3
3. Explain the operation of single phase half wave with RL load. Draw the output voltage and output current waveforms.
[CO3] L4
4. Explain the operation of single phase full converter feeding RLE load. Draw the output voltage waveforms for discontinuous mode of operation.
[CO3] L4
5. With the help of waveforms, explain the operation of three phase full converter connected to RL load. Draw output voltage waveforms for firing angle 30° , 60° and 90° .
[CO3] L4

Fig. 2.2.2.7: Sample Assignment

II. Quality of End Semester Examination and Evaluation:

For the Semester End Examinations also questions are framed aligning the Course Outcomes and Blooms Taxonomy Levels. The quality of end semester question paper and evaluation is described below:

The Question Papers are set by faculty from IITs, NITs, Universities and reputed engineering colleges in and around Telangana. When requests are sent to paper setters, guidelines are provided to frame questions that align with Blooms Taxonomy Levels and Course Outcome. Evaluation is done by the subject experts of the Department of EEE from outside the institution. The following Fig. 2.2.2.8 illustrate the process of conduction of Semester End Examination.

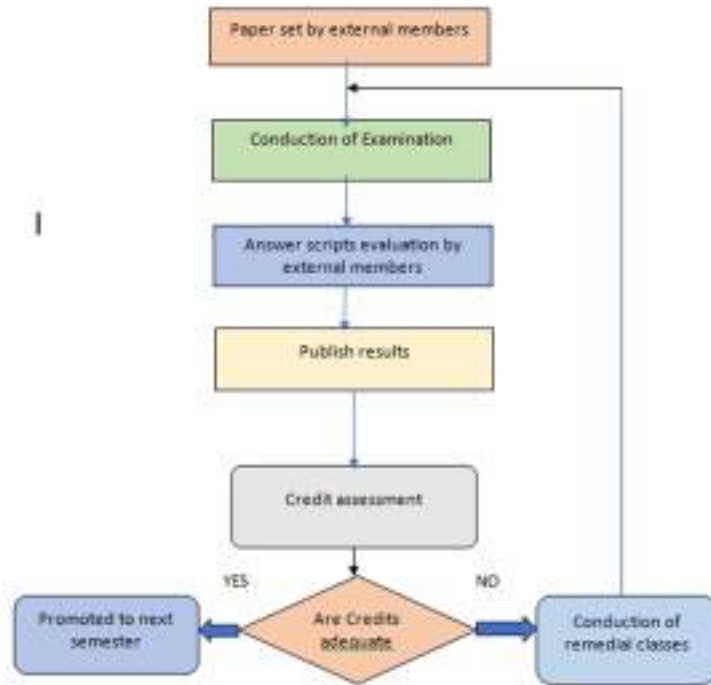


Fig. 2.2.2.8: Procedure for conduction of Semester End Examination

GNITS-R-18 – 118FY

G. Narayanamma Institute of Technology & Science
(Autonomous) (for Women)
Studypet, Hyderabad- 500 104

IV-B.Tech II-Semester Regular/ Supplementary Examinations, May -2023.

POWER QUALITY AND FACTS
(Electrical and Electronics Engineering)

Max. Marks: 70

Time: 03 Hours

Note:

1. Question paper comprises of Part A and Part B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B (for 60 marks) consists of five questions with "either/or" pattern. Each question carries 12 marks and may have a,b,c as sub questions. The student has to answer any one full question.

PART-A

(Answer 05 questions. Each question carries 2 marks)

Q.No	Question	Marks	CO	B.L.
Q.1	a) What is the need of Reactive power compensation?	[02]	CO1	[L1]
	b) Classify Thyristor based FACTS controllers.	[02]	CO4	[L2]
	c) Write the Basic Principle of Voltage Sourced Converter.	[02]	CO2	[L1]
	d) How do you evaluate the power quality problem due to harmonics?	[02]	CO5	[L2]
	e) What are the advantages of UPQC?	[02]	CO6	[L2]

END OF PART A

PART-B

(Answer 05 full questions. Each question carries 12 marks)

Q.No	Question	Marks	CO	B.L.
Q.2(a)	Explain the concept of midpoint voltage regulation by the application of shunt compensation.	[06]	CO1	[L3]
(b)	List out the possible benefits from FACTS controllers.	[04]	CO1	[L2]
OR				
Q.3(a)	Illustrate the operation of power flow in AC Transmission with its single line diagram.	[04]	CO1	[L3]
(b)	Compare shunt and series compensation.	[06]	CO4	[L2]

GNITS-R-18 – 118FY

Q.4 Explain the working and characteristics of TCSC. State the modes of operation. [12] CO4 [L4]

OR

Q.5 Explain the principle, working and characteristics of static VAR compensator with any one of its configurations. [12] CO4 [L3]

Q.6 Illustrate the operation of Voltage Source Converters with its waveforms. [12] CO2 [L3]

OR

Q.7(a) Describe the operation of UPFC with its diagram. [06] CO4 [L2]

(b) Explain the working of STATCOM with a neat sketch, in what way it differs from SVC. [06] CO4 [L2]

Q.8 Define i) Voltage swell ii) Voltage sag
iii) Unbalance in voltage iv) Harmonics
v) Noise vi) Notching. [12] CO5 [L2]

OR

Q.9 Explain the various types of power quality disturbances in power system and also illustrate the characteristics of each disturbance. Draw and elaborate CBEMA curve. [12] CO5 [L4]

Q.10(a) Illustrate the role of DSTATCOM in harmonics mitigation. [06] CO6 [L4]

(b) How unified power Quality conditioner will mitigate the power quality issues? Explain the operation in detail. [06] CO6 [L2]

OR

Q.11 Explain the working of DVR with its circuit. [12] CO6 [L2]

END OF PART B
END OF THE QUESTION PAPER.

IV - B-Tech II-semester Regulator/Supplementary Examinations. ①
May - 2023

Power Quality and Facts
(EEE)

G. Sujatha
Asst. Professor, EEE Dept
GITES, Chaitanya
Hyderabad

Part - A

Q.1 (a) Need of Reactive power compensation. (2M)
Sol: AC power sourced generator the reactive power. Adjust the power factor of the system and to maintain the voltage stability, need to compensate the reactive power to reduce the adverse effects of the branches.

(b) Due to the reactive power compensation techniques the working of HVDC converting terminals becomes better. The efficiency of transmission increases and also regulate the steady state and over voltages.

Q.2 Classify the different types of thyristor based facts devices. (2M)

Sol: Thyristor based shunt controllers

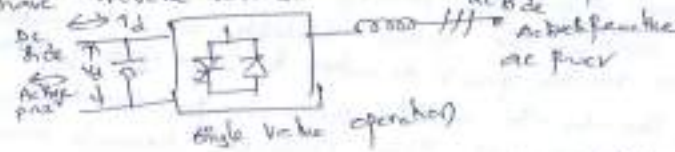
- (1) Thyristor controlled reactor (TCR)
- (2) Thyristor switched capacitor (TSC)
- (3) Thyristor switched reactor (TSR)
- (4) Thyristor controlled Branch reactor (TCBR)

(1) Thyristor based Load Controllers

- (1) Thyristor controlled series capacitor (TSCC)
- (2) Thyristor Switched series capacitor (TSSC)
- (3) Thyristor controlled series reactor (TCSR)
- (4) Thyristor Switched series reactor (TSSR)

(2) Principle of Voltage Source converter (2M)

In this, the DC voltage always has one polarity and the power reversal takes place through reversal of AC current polarity. Direct current flows in either direction, the converter value should be independent of the direction of current, but voltage does not change the polarity, the device need to have reverse voltage withstanding capability.



(3) Power quality Problems due to harmonics

Harmonics are sinusoidal voltages for various orders frequencies that are integer multiples of the frequency at which the supply system is design to operate.

Total harmonic distortion as measure of effective value of harmonic distortion,

$$THD = \frac{\sqrt{I_2^2 + I_3^2 + I_4^2 + I_5^2 + \dots}}{I_1} \times 100$$

Total demand distortion deals with evaluating the current distortions caused by harmonics currents in the end-user facilities
 THD = $\frac{\text{RMS value of the harmonic current}}{\text{RMS value of maximum demand of load current}} \times 100$

Advantages of OPSC (2M)

- ① OPSC can compensate both voltage related problems such as voltage harmonics, voltage sags/swells, voltage flicker as well as current related problems like reactive power compensation, power factor correction, current harmonics and load unbalance compensation
- ② OPSC has high frequency switching devices and advanced fast computing devices

Part-8

Q.1) mid pt voltage regulation by the application of shunt compensation

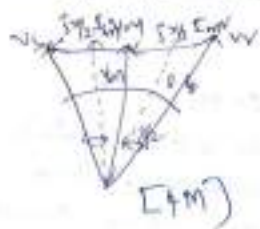
Sol:-

(2M)



Let us consider two bus A & B model in which ideal var compensator is shunt connected at the midpoint of the line. The line impedance represented by Z_{line} due to inductance.

$N_L = N_M = 1/2 V_s = V$
 First impedance of $x/2$ series power from sending end to mid point (1) The second impedance with an impedance of $(x/2)$ carries power from mid point to the receiving end



from vector diagram
 $V_{em} = V_{mr} = V \cos \delta/4$
 $I_{em} = I_{mr} = I = \frac{V}{x/4}$

$\therefore I = \frac{4V}{x} \sin \delta/4$ (l/4 of 90° phase displacement)

Transmitted power $P = V_{em} I_{em} = V_{mr} I_{mr}$
 $= V \cos \delta/4 \cdot \frac{4V}{x} \sin \delta/4$
 $= \frac{4V^2}{x} \cdot \frac{2}{2} \sin \delta/4 \cos \delta/4$

$P = \frac{2V^2}{x} \sin \delta/2$

Wtg $Q = V I \sin \delta/4 = V \sin \delta/4 \cdot \frac{4V}{x} \sin \delta/4$
 $= \frac{4V^2}{x} \sin^2 \delta/4 = \frac{4V^2}{x} [1 - \cos \delta/2]$

$Q = \frac{2V^2}{x} [1 - \cos \delta/2]$ (or) $\frac{4V^2}{x} (1 - \cos \delta/2)$ [2 M]



$P = \frac{4V^2}{x} (1 - \cos \delta)$
 $Q = \frac{2V^2}{x} \sin \delta/2$
 $P = \frac{4V^2}{x} \sin^2 \delta/4$

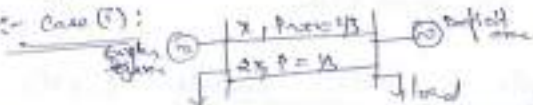
The above graph observed that mid pt of shunt compensation can increase transmittable power to double the max. value.

(b) Benefits of FACTS Controller: [4M]

- ① Regulation of power flows in prescribed transmission routes
- ② Reduces the need for construction of new transmission lines, capacitors and reactor
- ③ Provides greater ability to transfer the power oscillation b/w controlled areas
- ④ These devices help to damp the power oscillations that could damage the equipment
- ⑤ Improves the transient stability of the system
- ⑥ Control of real and reactive power flow in the line independently
- ⑦ Better utilization of existing TMS system assets
- ⑧ Red TMS system reliability, stability and availability
- ⑨ Red dynamic and transient JSD
- ⑩ Red effort of TMS system

3) power flow in ac transmission with its single line diagram

Soln- Case (i):



Power flow is depends on impedance of the line & inversely proportional related to the impedance

when impedance x , $P \propto 1/x$
 impedance $2x$, $P = 1/2$

(1M)

Case (ii) :-



By varying the connection point angle, power flow will be affected in the paths

(1M)

Case (iii) :-



By adjusting $X_c \rightarrow$ we can set power flow in desired parallel paths

(1M)

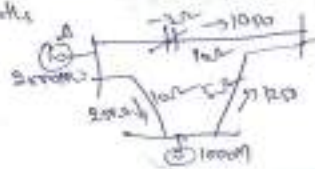
Case (iv) :-



By adjusting the phase angle, we can control the power and can get desired power in the paths

(1M)

Case (v)

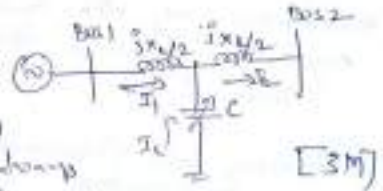


By installing variable capacitor on which load more power flow in ac and that of DC



Q) Compare shunt and series compensation
shunt compensation:-

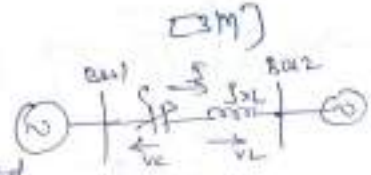
- The device that is connected in parallel with the transmission line is called the shunt compensator. Shunt compensator is always connected to the middle of the transmission line. It can be provided by either a current source (or) voltage source (or) Capacitor.
- An ideal shunt compensator provides the reactive power to the system.



⑤ Shunt connected reactors are used to reduce the line over voltage by consuming the reactive power, while shunt connected capacitors are used to maintain the voltage levels by compensating the reactive power to transmission line

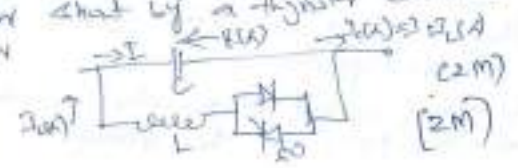
Series Compensation-

- ① When a device is connected in series with the line is called as series compensator
- ② A series compensator can be connected anywhere in the line
- ③ There are two modes of operation - capacitive mode of operation. The voltage magnitudes of the two buses are assumed equal as V and the phase angle δ between δ & δ .



Q1) Working and characteristics of TCSC

Ans: TCSC consists of series capacitor bank that is controlled by a thyristor controlled reactor



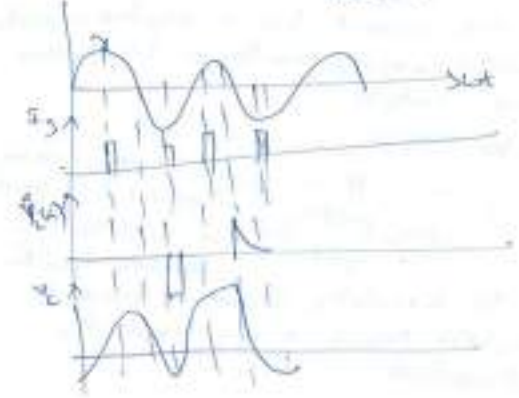
Characteristics of
 Steady State Impedance of TSCC
 is that of a parallel LC circuit consisting of a
 fixed capacitive impedance X_c and variable
 inductive impedance $X_L(\omega)$

(5)

$$X_{TSCC}(\omega) = \frac{X_c X_L(\omega)}{X_L(\omega) - X_c} \quad (5M)$$

$$X_L(\omega) = X_c \frac{\eta}{\pi - 2\omega - \ln \eta}$$

After the characteristics of $X_{TSCC}(\omega)$, here
 how the VC has (or) how the control mechanism
 takes place



Modes of operation [5M]

(1) Blocking mode:- Thyristor value is off, repels inductive branches, and effectively to operate as TCC [6M]

(2) Bypassed mode:- Thyristor value is always on, TCC to operate as capacitor and inductor to feel reducing the current through TCC

(3) Varistor mode:- Capacitive varistor Inductive varistor

(1) Capacitive varistor:-

On this, TCC current has a direction opposite that of capacitor current, results a loop-current flow in TCC cathode.

(1) Inductive varistor:-

On this, can be operated by having a high level of thyristor conduction. Direction of the circulating current is reversed and controlled precisely is not inductive clampdown

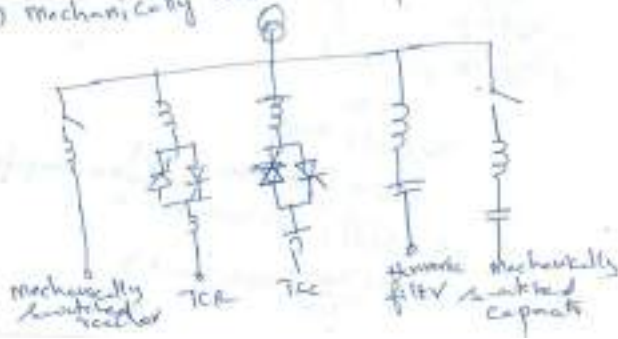
Q.5) Principle, working and characteristics of SVC
any one of its configurations

Sol: Static Var Compensator is a variable impedance device where the current through reactor is controlled using back to back connected thyristor valves. It regulates and control the voltage to its required set point under normal & fault conditions, therefore dynamic, fast response reactive power flowing system

VSC comprises one (or) more banks of fixed or switched shunt capacitor (or) reactors, of which at least one bank is switched by thyristors

SVC typically include

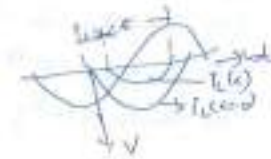
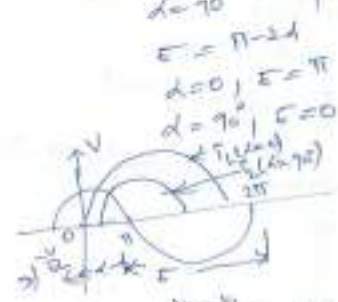
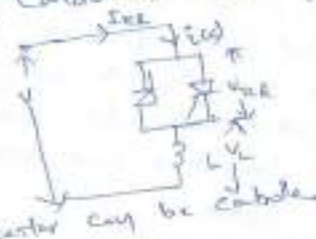
- (1) Thyristor controlled reactor (TCR)
- (2) Thyristor switched capacitor (TSC)
- (3) Harmonic filters
- (4) Mechanically switched capacitor (or) reactor



Thyristor controlled reactor (TCR)

TCR is known as fundamental building block of SVC. It is short circuited thyristor controlled reactor whose effective reactance is varied in continuous manner by partial conduction control of the thyristor valves.

It consists of 2 anti-parallel thyristors connected across with reactor. The current in the reactor can be controlled by delay angle.



$\alpha = 0, \gamma = \pi$
 $\alpha = 90^\circ, \gamma = 0$
 $V_r = L \frac{di_r}{dt}$
 $\int i_r dt = \int \frac{V_m}{\omega L} \sin(\omega t - \alpha) dt$
 at $\omega t = \alpha$, i_r becomes 0
 $I_r = \frac{V_m}{\omega L} (\cos \alpha - \cos \gamma)$

Q5) at $\omega = 90^\circ$

$$I = \frac{V_m}{\omega L} [\sin \omega t - \sin \omega t]$$

at 90°

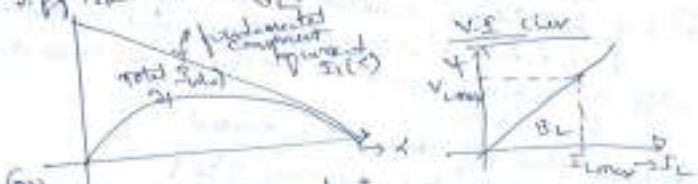
$$i(t) = \frac{v_m}{\omega L} + \sum_{n=1}^{\infty} \frac{v_n}{\omega L} \cos n\omega t + \sum_{n=1}^{\infty} \frac{v_n}{\omega L} \sin n\omega t$$

By solving the equations we can get

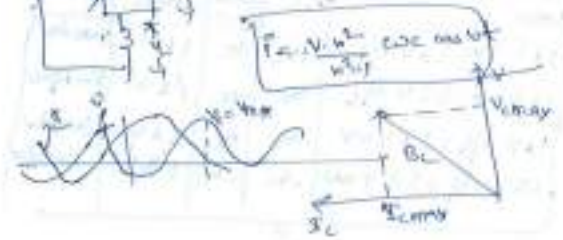
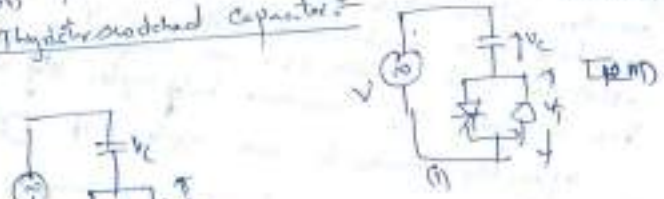
$$b_1 = \frac{V_m}{\omega L} \left[1 - \frac{2}{\pi} - \frac{\sin 2\omega t}{\pi} \right]$$

$$I_1(t) = \frac{V_m}{\omega L} \sin \omega t$$

$$I_{rms} = \frac{V_m}{\omega L} \left[1 - \frac{2}{\pi} - \frac{\sin 2\omega t}{\pi} \right] = \frac{V_m}{\omega L} \left[1 - \frac{2}{\pi} - \frac{\sin 2\omega t}{\pi} \right]$$

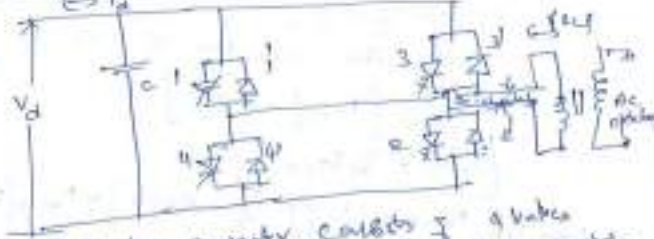


→ Thyristor controlled capacitor



⑤ Operation of Voltage Source Converter with its
components

① full wave bridge converter operating



② In full bridge converter consists of 4 valves of 1-1 to 4-4, DC capacitor used to provide off ac voltage and ac voltage is converted to ac voltage

③ When turn off device 1&2 forward on, the voltage V_{ab} becomes $+V_d$ for one half cycle and when device 2&4 turn on and device 1&2 are turned off, then V_{ab} becomes $-V_d$ another half cycle. Ify vicomun operation modes in one cycle t. of [ON]

Devices	V_{ab}	arm's p/a	conducting devices	Condition
1&2 ON, 3&4 off	+ve	-ve	1&2	inverted
1&2 ON, 3&4 off	+ve	+ve	1&2	Rectifier
1&2 off, 3&4 ON	-ve	+ve	3&4	Inverter
1&2 off, 3&4 ON	-ve	-ve	3&4	Rectifier

$$V_{ab} = \sqrt{\frac{1}{\pi} V_d^2 (\cos)^2 \frac{\pi}{2}} \quad (8) \quad (9)$$

$$V_{ab} = V_d$$

rms voltage for n th harmonic

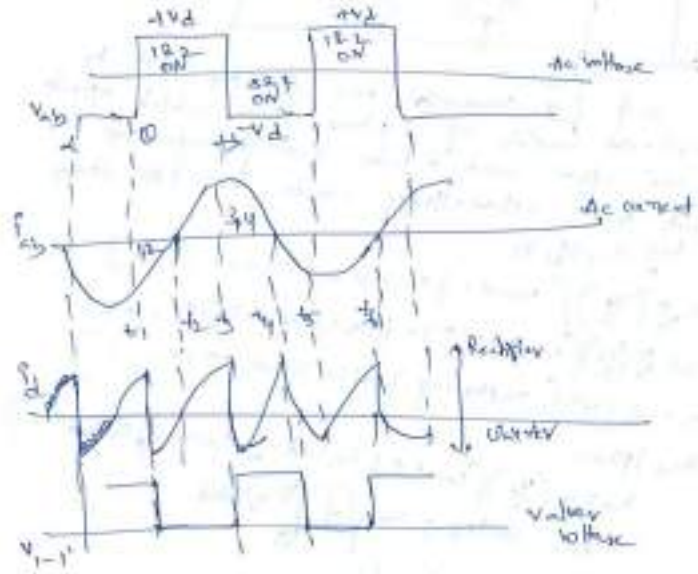
$$V_n = \frac{1}{\pi} \frac{2\sqrt{2}}{n} V_d$$

rms voltage for fundamental (first harmonic)

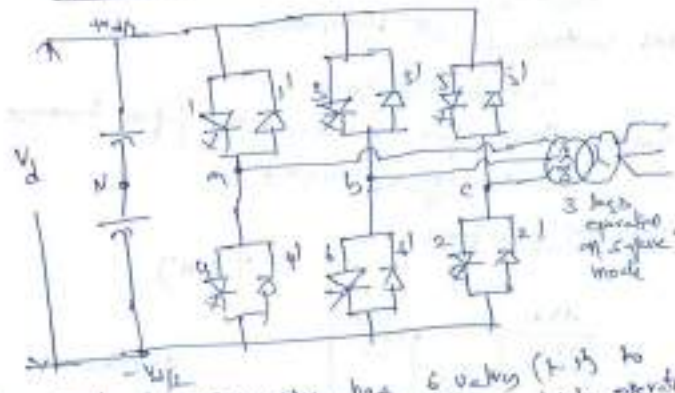
$$V_1 = \frac{2\sqrt{2}}{\pi} V_d = 0.9 V_d$$

operation wave forms

[CM]



(2v) 3- ϕ fullwave Bridge Converter (or) 6-pulse operation :-



3- ϕ full converter has 6 valves (T or F) to (F-1) it consists of 3-phase legs which operate at 120° - ϕ and 6-pulse converter operation. Each valve alternately closes for 120° every by V_a, V_b, V_c

$$V_a = \frac{2}{\pi} \left(\frac{V_m}{2} \right) \left[\cos \omega t - \frac{1}{3} \cos 3\omega t + \frac{1}{5} \cos 5\omega t - \dots \right]$$

$$V_b = \frac{2}{\pi} \left(\frac{V_m}{2} \right) \left[\cos(\omega t - \frac{2\pi}{3}) - \frac{1}{3} \cos 3(\omega t - \frac{2\pi}{3}) + \dots \right]$$

$$V_c = \frac{2}{\pi} \left(\frac{V_m}{2} \right) \left[\cos(\omega t + \frac{2\pi}{3}) - \frac{1}{3} \cos 3(\omega t + \frac{2\pi}{3}) + \dots \right]$$

Voltage / phase

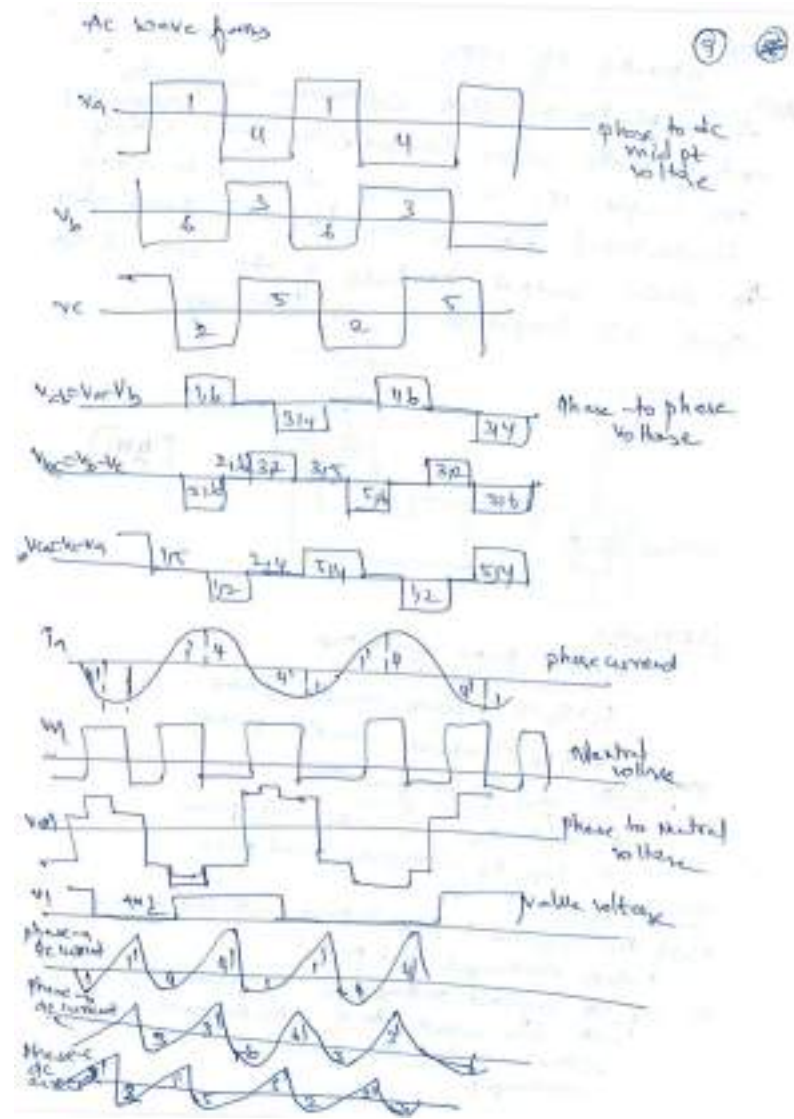
$$V_m = \frac{2}{\pi} \left(\frac{V_m}{2} \right) \left[\cos \omega t + \frac{1}{3} \cos 3\omega t - \frac{1}{5} \cos 5\omega t + \dots \right]$$

and voltage, $V_o = \sqrt{\frac{1}{T} \int_0^T V_o^2 dt}$

$$= \frac{2\sqrt{3} V_m}{\pi}$$

$$= 0.816 V_d$$

$$V_d = \frac{2\sqrt{3} V_m}{\pi} S_d = \frac{2\sqrt{3} V_m}{\pi} \cos \alpha = 1.05 \cos \alpha$$



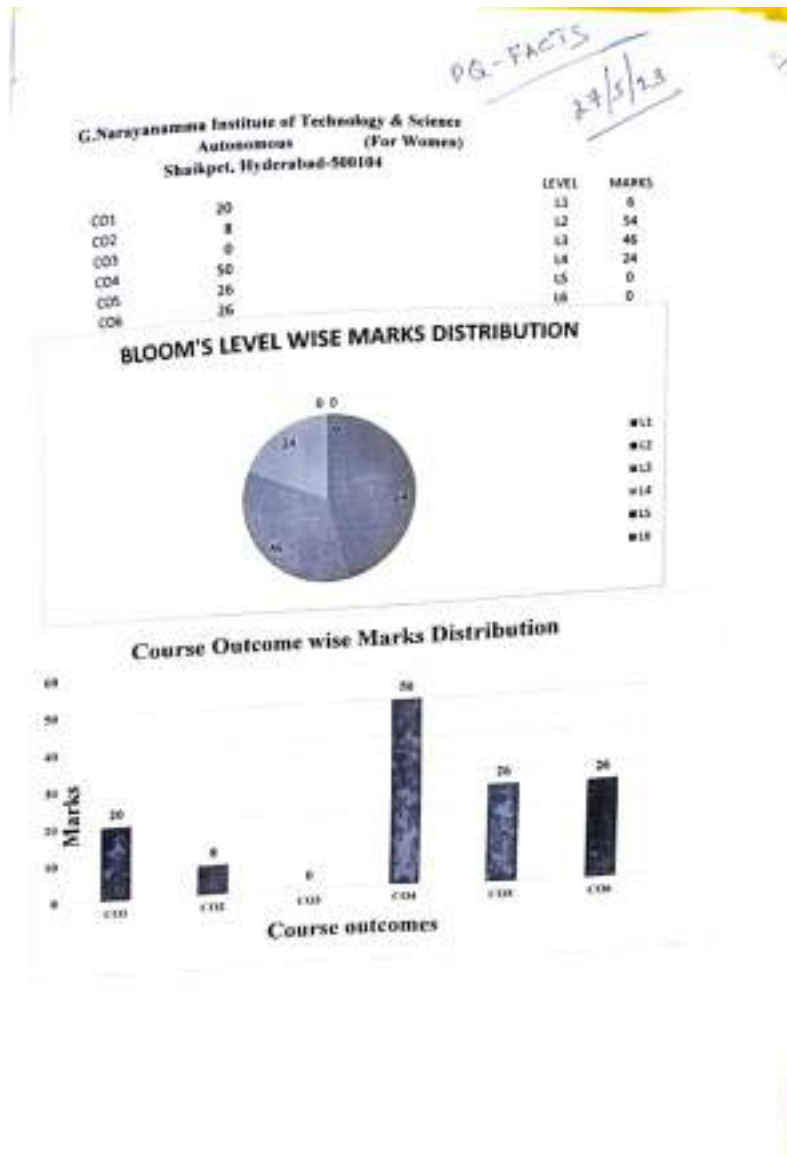


Fig. 2.2.2.9 Sample Semester End Exam Paper, IQAC and Scheme of valuation

Following the conclusion of End Semester Examinations, remedial classes are arranged for students who did not achieve success in the exams, subsequent to the announcement of results and completion of credit assessment.

G Narayana Institute of Technology & Science (for Women)
(Autonomous)
Shaikpet, Hyderabad -500008

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

REMEDIAL CLASSES FOR 2023 BATCH-III (PR SEM I)
Conducted in II YEAR SEM II (2023-2024)
SUBJECT: Control Systems (CS)
FACULTY: P. Mamata (A-SECTION)
Dr. D. G. Annapurna (B-SECTION)
VENUE: LHS

TIME: 1:00-4:00 PM

S.No	Roll Number	06-03-2024	10-03-2024	17-03-2024	03-04-2024	17-04-2024	24-04-2024	02-05-2024	16-05-2024	23-05-2024	30-05-2024
1	21251A0217	A	A	A	A	A	A	A	A	A	A
2	21251A0218	A	A	A	A	A	A	A	A	A	A
3	21251A0221	A	A	A	A	A	A	A	A	A	A
4	21251A0236	A	A	A	A	A	A	A	A	A	A
5	21251A0247	A	A	A	A	A	A	A	A	A	A
6	21251A0252	A	A	A	A	A	A	A	A	A	A
7	21251A0254	A	A	A	A	A	A	A	A	A	A
8	21251A0273	A	A	A	A	A	A	A	A	A	A
9	21251A0299	A	A	A	A	A	A	A	A	A	A
10	21251A0308	A	A	A	A	A	A	A	A	A	A
11	21251A0399	A	A	A	A	A	A	A	A	A	A
12	21251A0425	A	A	A	A	A	A	A	A	A	A

(Signature)
HOOPER

Table 2.2.2.2 Sample of Remedial Classes conducted

2.2.3 Quality of student projects (20)

A. Identification of projects and allocation methodology to Faculty Members (2)

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring and evaluation details including details of POs and PSOs addressed through the projects with justification)

- Main objective of the Project work is to apply Engineering knowledge to solve real world problems by conducting thorough investigations using modern tools. In addition, it helps the students to succeed as an individual and part of a team eventually directing them to a I
- The Final year Projects are broadly classified as Application, Product, Industry and Societal Impact Project.
- The entire process of Project allocation, review and evaluation is represented in the following figure.

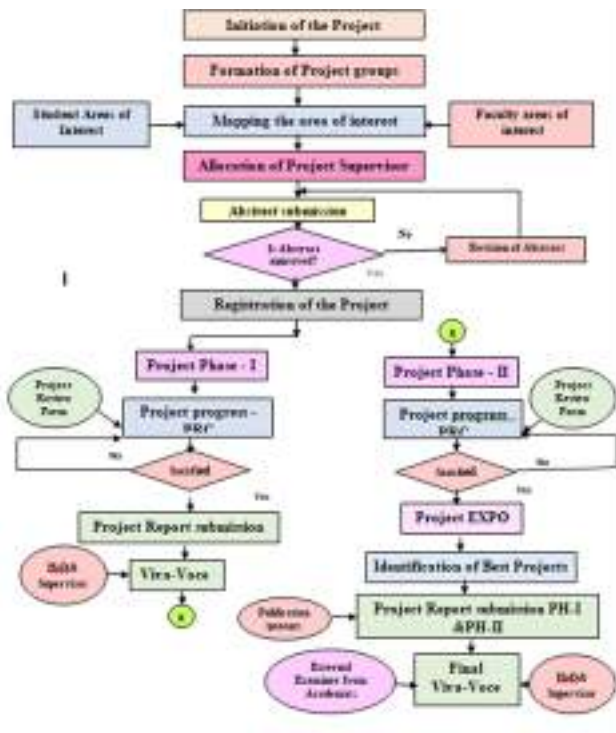


Fig:2.2.3.1: Process for Project Identification , Allocation, Review and Evaluation

- In the beginning of Academic Year, Project Review Committee (PRC) is constituted with composition of HoD as Chairman, Senior faculty members and Supervisor as members. The committee members shall monitor and review the progress of the project and suggest n
- Major project work shall be carried out in two phases :Phase-I and Phase-II. In each phase of the project, two project review committee meetings will be conducted.
- As a first step, Students are divided into project groups with 5 members in each group. The group is a combination of excellent, above average , average, below average and poor rank students such that the average rank of all the groups is same.
- For each project group, one project supervisor is allotted and the list of supervisors and their project groups will be displayed in the notice board. The project supervisor allotment is purely based on the domain of the project, the expertise of the faculty and area of interes
- Each project group has to give presentation in the Project Review Committee meetings during which Project Progress Forms are to be submitted duly signed by the students and supervisor. The progress of the project work will be reviewed and suitable modifications a

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

Projects within a program contribute to achieving Program Outcomes (PO) and Program Specific Outcomes (PSO) by addressing specific objectives and delivering results that align with the broader program goals. Technology and innovation projects contribute to program technologies and improve operational efficiency.

The following table shows the mapping of Students projects works with POs and PSOs.

Table 2.2.3.1: List of student project works

A.Y.2019-23

S.NO.	ROLL NO.	NAME OF THE STUDENT	BATCH NO.	GUIDE	TITLE	AREA OF THE PROJECT	RELEVANT POS & PSOS(GNR-18)	NAMES OF COE/RC	LOCATION GNITS/ EXTERNAL	HARDWARE/ SOFTWARE
1	19251A0204	ADIKICHERLA RAVALI	EEEE-1	DR.N.MALLAREDDY	FAULY DETECTION IN UNDER GROUND CABLES USING MICROCONTROLLER	POWER SYSTEMS	PO1,PO3,PO5,PO6,PO7 & PSO1, PSO2	RC POWER AND ENERGY	GNITS	HARDWARE
2	20255A0203	GONE CHANDANA								
3	20255A0205	AZMEERA DIVYA NAYAK								
4	19251A0236	MOCHARLA KUNDAN SHIVANI								
5	19251A0250	SATTHURI VARSHASRI								
6	19251A0211	BAIRABOINA VARSHINI RAJ	EEEE-2	K.V.DHANA LAKSHMI	FAULT DIAGNOSIS AND MONITORING OF SMALL WIND TURBINE USING IOT	RENEWABLE ENERGY SOURCES	PO1,PO3,PO5,PO6,PO7 & PSO1, PSO2	RENEWABLE ENERGY SYSTEMS CENTER FOR IOT & EMBEDDED SYSTEMS CENTER FOR POWER AND ENERGY SYSTEMS	GNITS	HARDWARE
7	19251A0227	GOPARI HRUSHIKA								
8	19251A0202	A SREEJA								
9	20255A0204	CHIRRA ANKITHA								
10	19251A0225	FARIHA AFROZ								
11	19251A0224	DINGARI SHRIYA	EEEE-3	E.GOUTHAMI	IMPLEMENTATION OF G2V AND V2G TECHNOLOGY IN MICROGRID USING MATLAB/SIMULINK	POWER SYSTEMS	PO1, PO2,PO3,PO4,PO5,PO8,PO9 ,PO10, PO11,PO12,PSO1,PSO2	RC POWER AND ENERGY	GNITS	SIMULATION
12	19251A0212	BANOTH SHIREESHA								
13	20255A0202	VATTIKUTI SRUTHAKEERTHI								
14	19251A0205	AKKALA KEERTHANA								
15	19251A0210	BANDI AKSHAYA								

16	19251A0 235	KONAKALLA DEVAYANI CHAKRAVAR THI	EEEE-4	G.SUJATHA	DESIGN & EXPERIMENTATI ON OF VOLTAGE CONTROL FOR PV-FED DC-DC CONVERTER	RENEWABLE ENERGY SOURCES	PO1,PO2,PO3,PO4,PO5, PO7,PO8,PO9, PO10,P11,P12,PS01,PSO2	COE- RENEWAB LE ENERGY SOURCES	GNITS	HARDWA RE
17	19251A0 251	SHAIK ASHFIYA								
18	19251A0 255	THUTE VIJAYA BHARGAVI								
19	19251A0 232	KYAMA MANASWINI								
20	19251A0 226	GRANDISILA SAHITHI								
21	20255A0 201	AKHINAPPELL I SINDHUJA	EEEE-5	G.UJWALA	IOT BASED ENERGY METER WITH BILLING SYSTEM AND LOAD PRIVILIZATION	CONTROL SYSTEMS & INSTRUMENTA TION	PO1, PO2,PO3,PO4,PO5,PO8,PO9 ,PO10, PO11,PO12,PSO1,PSO2	COE- IOT	GNITS	HARDWA RE
22	19251A0 252	SHAIK FAREEDA								
23	19251A0 239	MALLEBOIN A VENNELA								
24	19251A0 220	D TEJASWINI								
25	19251A0 240	NAINOLLA RAMYA SREE								
26	19251A0 244	NEELAMPALL I THANMAI	EEEE-6	P.SAI NIRANJAN KUMAR	SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR USING ANDROID BLUETOOTH MODULE	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5,PO8 ,PO9 ,PO10 PO11,PSO1,PSO2	VIRTUAL REALITY	GNITS	HARDWA RE
27	19251A0 215	BOMMA RAVALI								
28	19251A0 259	VELAGAPALL I SHANTHI								
29	19251A0 248	S. POOJA								
30	19251A0 246	P SHRUTHI								

31	19251A0 222	DAMERUPPU LA ARCHITHA	EEEE-7	DR.P.RAMA KRISHNA REDDY	SOLAR WIRELESS ELECTRIC VEHICLE CHARGING SYSTEM	RENEWABLE ENERGY SOURCES	PO1,PO2,PO3,PO4,PO5,PO8 ,PO9 ,PO10 PO11,PSO1,PSO2	RES	GNITS	HARDWA RE
32	19251A0 257	VALLEM SUPRAJA RAO								
33	19251A0 256	V NANDANA								
34	19251A0 260	YADALA RANI								
35	19251A0 216	BOPANI PAVANI								
36	19251A0 233	KANDIMALL A VARSHA	EEEE-8	B.NARMADA	SIMULATION OF WIND SOLAR BASED HYBRID POWER GENERATION SYSTEM USING MATLAB	RENEWABLE ENERGY SOURCES	PO1,PO2,PO3,PO4,PO5, PO7,PO8,PO9, PO10,PO11,PSO1,PSO2	COE FOR RENEWAB LE ENERGY SYSTEMS CENTRE FOR POWER AND ENERGY SYSTEMS	GNITS	SIMULATI ON
37	19251A0 208	B VINDHYA								
38	19251A0 247	PATAN ARSHIYA KHANAM								
39	19251A0 237	MADASTU BINDHU								
40	19251A0 254	TEJAVATH SWATHI SRI								
41	19251A0 234	KAPARTHI AALAYA	EEEE-9	P.V.S.S.A.PARIM ALA	ROTOR AND GRID SIDE CONTROL OF DFIG BASED WIND ENERGY SYSTEM USING MATLAB/SIMULI MK	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5,PO1 1,PO12	COE ADVANCE D POWER ELECTRON IC CONVERTE RS	GNITS	SIMULATI ON
42	19251A0 249	SABAVATH TEJASHWINI								
43	19251A0 214	BHORE NEHA								
44	19251A0 228	GOVALA SAI PRAVALLIKA								
45	19251A0 206	ALAKUNTLA YASHASWINI								

46	19251A0 241	NUKALA SHREEKRUT HI	EEEE- 10	K.PANDU KUMAR	BATTERY STORAGE MANAGEMENT SYSTEM	CONTROL SYSTEMS & INSTRUMENTA TION	PO1,PO2,PO3,PO4,PO5,PO1 1,PO12	COE ADVANCE D POWER ELECTRON IC CONVERTE RS	GNITS	SIMULATI ON
47	19251A0 203	ANUMULA SUCHARITHA								
48	19251A0 223	DESHAM RISHITHA								
49	19251A0 229	GUDI SRIJA								
50	19251A0 217	BURRA GAYATHRI								
51	19251A0 231	GUGGILLA NIKHITHA	EEEE- 11	B.ABHINETHRI	BLUE TOOTH CONTROLLED ROBOTIC CAR WITH WIRELESS CAMERA AND METAL DETECTION	CONTROL SYSTEMS & INSTRUMENTA TION	PO1,PO2,PO3,PO4, PO7,PO8,PO9,PO10 PO11,PSO1,PSO2	CENTRE FOR IOT & EMBEDDE D SYSTEMS	GNITS	HARDWA RE
52	19251A0 230	GUDIMICHER LA JENNY PRAISE								
53	19251A0 258	VEDALASYA SAI SONTI								
54	19251A0 213	BATTU RUPA SREE								
55	19251A0 219	CHITHARI MANJULA								
56	19251A0 245	NIMMALA CHINMAYEE	EEEE- 12	P.BUCHIBABU	SIMULATION AND DESIGN OF BOOST CONVERTER FOR PV SYSTEM USING MPPT ALGORITHMS	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5, PO7,PO8,PO9, PO10,PO11,PSO1,PSO2	COE- RENEWAB LE ENERGY SYSTEMS	GNITS	SOFTWAR E
57	19251A0 243	NALLAGATL A SAHITHYA								
58	20255A0 206	CHILUKU KAVERI								
59	19251A0 221	DOMA PRASANNA								
60	19251A0 201	AGRAHAR AKSHITHA								

61	19251A0242	NALLA SREEJA REDDY	EEEE-13	CH.LEELA KRISHNA	HARDWARE DESIGN AND SIMULATION OF BOOST CONVERTER SUITABLE FOR PV APPLICATIONS	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10 PO11,PSO1,PSO2	COE OF POWER ELECTRONICS	GNITS	HARDWARE
62	19251A0218	CH SUPRAJA								
63	19251A0238	MADHAPURAM SMITHIKA								
64	19251A0207	BODE SHREYA YADAV								
65	19251A0209	BESOLLA AISHWARYA								
66	19251A0253	TEJAVATH BHARGAVI								

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S.NO.	ROLL. NO.	BATCH NO.	GUIDE	TITLE	AREA OF THE PROJECT	RELEVANT POS & PSOS(GNR-18)
1	18251A0235	1	PVSSA PARIMALA	V/F SPEED CONTROL OF MULTILEVEL INVERTER BASED INDUCTION MOTOR USING SHEPWM	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
2	18251A0206					
3	18251A0229					
4	18251A0203					
5	18251A0240					
6	18251A0230	2	CH. LEELA KRISHNA	SIMULATION OF TWO-AREA AGC SYSTEM IN A COMPETITIVE ENVIRONMENT USING REDUCED - ORDER OBSERVER METHOD	POWER SYSTEMS	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
7	18251A0223					
8	18251A0242					
9	18251A0210					
10	18251A0214	3	K. KRISHNA MURTHY	AN IMPROVED LOAD FLOW ANALYSS FOR RADIAL DISTRIBUTION SYSTEM	POWER SYSTEMS	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
11	18251A0234					
12	18251A0218					
13	18251A0253					
14	18251A0251					
15	18251A0205					

16	18251A0243	4	P. BUCHIBABU	COMPARISION OF P&O, INCREMENTAL CONDUCTANE AND FUZZY LOGIC BASED MPPT ALGORITHMS FOR 1 KW PV SYSTEM	RENEWABLE ENERGY SOURCES	PO1 PO3 PO4 PO5 PO6 PO7 PO8 PO9
17	18251A0232					
18	18251A0202					
19	18251A0238					
20	19255A0203					
21	18251A0246	5	DR. R. NAGESWARA RAO	BLDC MOTOR SPEED CONTROL USING FUZZY LOGIC	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
22	18251A0201					
23	18251A0260					
24	18251A0231					
25	19255A0205					
26	18251A0233	6	PROF. G. GOPINATH	AUTOMATIC POWER FACTOR CORRECTION UNIT	POWER SYSTEMS	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
27	18251A0212					
28	18251A0222					
29	18251A0249					
30	18251A0237					
31	18251A0258	7	DR. N. MALLA REDDY	VOICE INTEGRATED SPEED AND DIRECTION CONTROL OF DC MOTOR	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
32	18251A0245					
33	18251A0256					
34	18251A0252					
35	18251A0250					
36	18251A0208	8	K.V. DHANALAKSHMI	PROTOTYPE OF TRANSMISSION LINE FAULT DETECTION USING ARDUNIO WITH GSM AND GPS	POWER SYSTEMS	PO1, PO2,PO3,PO4,PO8,PO9,PO10, PO11
37	18251A0224					
38	18251A0215					
39	18251A0254					
40	19255A0201					
41	18251A0244	9	K. SWARNALATHA	PERMANANCE ANALYSIS OF SOLAR PV ARRAY AND BATTERY INTEGRATED UNIFIED POWER QUALITY CONDITIONER FOR MICROGRID SYSTEMS	RENEWABLE ENERGY SOURCES	PO1, PO2,PO3,PO5,PO,PO11
42	18251A0225					
43	18251A0228					
44	18251A0247					
45	19255A0202					

46	18251A0255	10	E. GOUTHAMI	DESIGN AND IMPLEMENTATION OF AUTOMATIC SOLAR STREET LIGHT	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO9,PO11
47	18251A0211					
48	18251A0217					
49	18251A0219					
50	19255A0204					
51	18251A0213	11	DR. G. ANNAPURNA	DESIGN AND FABRICATION OF POTABLE INVERTER	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8 PSO1,PSO2
52	18251A0241					
53	18251A0236					
54	18251A0239					
55	19255A0206					
56	18251A0257	12	G. RAMANA REDDY	DESIGN AND IMPLEMENTATION OF AUTOMATIC SOLAR STREET LIGHT	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8 PSO1,PSO2
57	18251A0204					
58	18251A0248					
59	18251A0220					
60	18251A0216					
61	18251A0259	13	P. SAI NIRANJAN KUMAR	SPEED CONTROL OF BLDC MOTOR USING PWM TECHNIQUE	POWER ELECTRONICS & ELECTRIC DRIVES	PO1,PO2,PO3,PO5,PO6,PO7,PSO1,PSO2
62	18251A0207					
63	18251A0221					
64	18251A0226					
65	17251A0218					

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BATCH.NO	H.T. NO	NAME OF THE STUDENT(S)	NAME OF THE FACULTY GUIDE	TITLE OF THE PROJECT	AREA OF PROJECT(PS/PE/CS-APPLICATION)	RELEVANT POS & PSOS
1	17251A0205	DUMPETI SAI HARSHITHA	G.SUJATHA	NON-ISOLATED DC-DC CONVERTER FED TO DIFFERENT LEVELS OF DIODE CLAMPED MULTI-LEVEL INVERTER	POWER ELECTRONICS	PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10,PO11,PO12,PSO1
	17251A0254	SAI DEEPSHIKA VALAM				
	17251A0203	BOMMENA SNIKITHA				
	17251A0249	PATY PREETHI				
	17251A0253	S JAGADEESH NIKHITHA				
2	17251A0258	VANGARI BHAVANA	DR.G.ANNAPURNA	ENERGY EFFICIENT AND FULLY AUTONOMOUS RESIDENTIAL POWER MANAGEMENT SOLUTION	POWER SYSTEMS	PO1, PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10, PO11,PO12,PSO1,PSO2
	18255A0208	DODLA ANITHA				
	17251A0201	AMBATI KEERTHISRI				
	17251A0212	LAVETI DEEKSHA SREE				
	17251A0229	VARSHA SINGANNAGARI				

3	17251A0246	MAHEEN FATHIMA	DR.P.RAMA KRISHNA REDDY	DESIGN OF HYBRID FORWARD BOOST CONVERTER FOR RENEWABLE ENERGY POWERED ELECTRIC VEHICLE CHARGING APPLICATIONS	PE & RES	PO1, PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10, PO11,PO12,PSO1,PSO2
	18255A0205	TEPPA KOMALA				
	17251A0259	YALAKAMANI SUNITHA				
	17251A0225	SEEMA SHIRIN				
	17251A0214	M RACHANA				
4	17251A0241	INDRALA ANJALI	G.UJWALA	PERFORMANCE ENHANCEMENT OF INTEGRATED SOLAR-WIND HYBRID ENERGY SYSTEM USING MPPT CONTROLLER	RENEWABLE ENERGY SYSTEMS	PO1, PO2,PO3,PO4,PO5,PO8,PO9,PO10, PO11,PO12,PSO1,PSO2
	17251A0256	TABASSUM				
	17251A0207	G GODHA DEVI				
	17251A0219	NIKITHA SURA				
	17251A0215	MALLADI ANKITHA				
5	17251A0242	J TULASI NAGA DEEPIKA	K.SWARNALATHA	PV SOLAR SYSTEM CONTROL AS STATCOM (PV-STATCOM) FOR POWER OSCILLATION DAMPING.	RENEWABLE ENERGY SYSTEMS	PO1, PO2,PO3,PO4,PO5,PO8,PO9,PO10, PO11,PO12,PSO1,PSO2
	17251A0206	GALIPELLI HARIKA				
	18255A0206	KATUKU SRILAXMI				
	17251A0231	A SHIVANI				
	17251A0222	S SAI SUDEEKSHA				
6	18255A0201	CHIKKA SUPRITHA	K.PRIYAMVADA	GRID CONNECTED WIND-PV CO-GENERATION USING BACK TO BACK CONVERTERS	POWER SYSTEMS & POWER ELECTRONICS	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	17251A0202	BODA HARIPRIYA				
	17251A0216	MEGHANA JOSHI				
	18255A0210	PALA YAMINI				
	17251A0236	CH HARI PRIYA TRINITY				
7	17251A0247	MEDA SRAVANI REDDY	B.RAVICHANDRA RAO	RENEWABLE ENERGY SOURCES INTEGRATION AND CONTROL IN RAILWAY MICROGRID	RES	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	17251A0221	RANGAREDDY RUCHITHA				
	17251A0235	BATHARAJU PRIYANKA				
	17251A0245	K HRITHIKA REDDY				
	17251A0248	MEGHARAJU TEJASRI				

8	17251A0257	T NAGASRI	P.SAI NIRANJAN KUMAR	AN EFFICIENT ENERGY MANAGEMENT APPROACH FOR A SOLAR-POWERED EV BATTERY CHARGING FACILITY TO SUPPORT DISTRIBUTION GRIDS(SIMULATION)	RES	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	17251A0250	POOSA SUCHITRA				
	17251A0204	DAKURI CHANDANA				
	17251A0251	PRAVALIKA MALOTHU				
	17251A0260	BILLAKANTI VAISHNAVI				
9	17251A0220	PARVATHANENI NIMISHA	P.SIVA PRASAD	SOLAR-BASED AUTOMATIC CONTROL OF LIGHT ILLUMINATION INTENSITY USING HIGH BOOST DC TO DC CONVERTER.	RES	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	18255A0202	SIDDI SHIRISHA				
	17251A0230	VEMULA VINEELA				
	17251A0232	AAKANKSHA NALAMATI				
	17251A0244	KAVELIGUDA SAI LEKHA				
10	17251A0208	GUNDLAPALLY BHAVANI	K.PANDU KUMAR	CONTROLLER AND DESIGN IMPLEMENTATION OF SOLAR PANEL COMPANION INVERTERS	RES	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	17251A0210	KAMISHETTI LAVANYA				
	17251A0224	SANKA KRISHNA SRIHITHA				
	17251A0213	M V S S R S MANASA				
	17251A0223	SANA				
11	17251A0217	M SAI PARVATHI	K.V.SOUMYA	SMART IOT BASED ENERGY METERING SYSTEM WITH LOAD MANAGEMENT ALGORITHM.	POWER SYSTEMS	PO1,PO3,PO4,PO5,PO7,PO10 ,PO11 ,PSO1 AND PSO 2
	17251A0209	JILLOJU NAKSHATRA				
	17251A0240	INDHU NARRA				
	17251A0234	A SIRICHANDANA				
	18255A0212	NAFISA THAMKINATH				
12	17251A0233	AKSHITA TIRMAL	P.SURESH	SOLAR PV GENERATION SYSTEM INTERFACED TO THREE PHASE GRID ALONG WITH COMPENSATION FOR IMPROVED POWER QUALITY.	POWER SYSTEMS & POWER ELECTRONICS	PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO11,PO12 PSO1,PSO2
	17251A0211	L SUDHA MANISHA				
	18255A0209	B NEHA PRIYA				
	18255A0204	MUSKU SONY				
	16251A0217	G VINEELA				

13	17251A0228	V CHANDANA SHILPA	PROF.G.GOPINATH	A CO-ORDINATED CONTROL OF SINGLE-STAGE GRID CONNECTED SPV WITH BATTERY ENERGY STORAGE SYSTEM AND BI-DIRECTIONAL DC-DC CONVERTER.	MAIN AREA: POWER SYSTEMS	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9 AND PO12 PSO1 AND PSO2
	17251A0255	SUDHIREDDY ANUSHA			RENEWABLE ENERGY SYSTEMS	
	18255A0203	NEELIMA BILAKANTI			PROMOTION OF BATTERY STORAGE SYSTEMS	
	18255A0211	KAMLA LAXMI			ADOPTION OF PE CONVERTERS	
	16251A0236	L VAISHNAVI				
14	17251A0239	GUNDAPU SAIVARSHINI	B.NARMADA	WIRELESS POWER TRANSMISSION FROM SOLAR INPUT	APPLICATION OF RENEWABLE TO POWER SYSTEMS	PO1, PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10, PO11,PO12 PSO1,PSO2
	17251A0226	SOMA LAKSHMI YOSHITHA				
	17251A0243	KAMIDI KEERTHI				
	17251A0227	SOWDHARI RUCHITHA				

C. Projects related to industry(3)

The department currently has four Centers of Excellence: Advanced Power Electronics, Electric Vehicles, Renewable Energy Sources and Virtual Reality. These centers serve as hubs where students undertake their projects, benefiting from state-of-the-art equipment that cat industries through Memorandums of Understanding (MoUs)

Table 2.2.3.2: List of student project works related to Industry

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE	Collaborated with MoU
1.	18251A02A1	P. Mamta	Monitoring and control of substation parameters using GSM module	Misplaced Minds
2.	18251A0264			
3.	18251A0294			
4.	18251A0287			
5.	17251A0237			
6.	19251A0235	G.Sujatha	Arduino Based Automatic Waste Segregator using IoT	Misplaced Minds
7.	19251A0251			
8.	19251A0255			
9.	19251A0232			
10.	19251A0226			

11	17251A0257	P.SaiNiranjan Kumar	An Efficient Energy Management Approach for a Solar-Powered EV Battery Charging Facility to Support Distribution Grids	Lush Motors (https://www.gnits.ac.in/wp-content/uploads/2021/12/lush-motors_mou.pdf)
12	17251A0250			
13	17251A0204			
14	17251A0251			
15	17251A0260			
16	17251A0294	E.Gouthami	Estimation of Energy requirement based on Vehicle performance analysis using different drive cycles.	Lush Motors (https://www.gnits.ac.in/wp-content/uploads/2021/12/lush-motors_mou.pdf)
17	17251A0288			
18	17251A0295			
19	17251A02A6			
20	17251A0293			
21	18251A0285	Dr.B. Ravichandra Rao	Design of a solar PV charging station for electric vehicles	Haritha Technologix
22	19255A0211			
23	18251A02B2			
24	18251A02B9			
25	17251A0282			
26	19251A0244	P.SaiNiranjan Kumar	PV Integrated Battery Driven Electric Vehicle	Haritha Technologix
27	19251A0215			
28	19251A0259			
29	19251A0248			
30	19251A0246			
31	19251A0222	Dr.P.Rama Krishna Reddy	Solar wireless electric vehicle charging system	Haritha Technologix
32	19251A0257			
33	19251A0256			
34	19251A0260			
35	19251A0216			

Projects under Thrust areas:**I. Advanced Power Electronic Converter**

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE

1	17251A0228	Prof.G.Gopinath	Multitasking passenger safety oriented auto dipper system for automobiles
2	17251A0255		
3	18255A0203		
4	18255A0211		
5	16251A0236		
6	17251A0205	G.Sujatha	Non-isolated DC-DC Converter fed to different levels of Diode Clamped Multi-level Inverter
7	17251A0254		
8	17251A0203		
9	17251A0249		
10	17251A0253		
11	17251A0246	Dr.P.Rama Krishna Reddy	Design of hybrid forward boost converter for renewable energy powered electric vehicle charging applications
12	18255A0205		
13	17251A0259		
14	17251A0225		
15	17251A0214		
16	18255A0201	K.Priyamvada	GRID CONNECTED WIND-PV CO-GENERATION USING BACK TO BACK CONVERTERS
17	17251A0202		
18	17251A0216		
19	18255A0210		
20	17251A0236		
21	17251A0208	K.Pandu Kumar	Controller and Design Implementation of solar panel companion inverters
22	17251A0210		
23	17251A0224		
24	17251A0213		
25	17251A0223		
26	17251A0228	Prof.G.Gopinath	A co-ordinated control of single-stage grid connected SPV with Battery Energy Storage system and bi-directional DC-DC converter.
27	17251A0255		
28	18255A0203		
29	18255A0211		
30	16251A0236		

31	17251A0262	Y.Priyanka	Novel three phase multilevel inverter with single DC link for induction motor drive applications
32	17251A02B7		
33	17251A02B0		
34	18255A0224		
35	17251A02A1		
36	17251A02A5	T.Surya Prakash	Cascaded Switched capacitor Multilevel Inverter Based On Improved Series Parallel Conversion With Less Number Of Components.
37	17251A02B1		
38	17251A0291		
39	17251A0292		
40	17251A0261		
41	18255A0213	V.Badri Rama Krishnan	Smart Solar charge controller using Synchronous buck converter for Lithium ion battery charging.
42	17251A0279		
43	17251A0280		
44	17251A0281		
45	17251A0278		
46	17251A0267	Dr.R.Nageshwara Rao	Implementation and analysis of three type pulse width modulation techniques
47	18255A0217		
48	17251A0271		
49	18255A0214		
50	17251A0287		
51	18251A02B0	G. Sujatha	Paper waste to electricity through Solar Inverter
52	18251A0263		
53	18251A0297		
54	18251A02B5		
55	18251A0291		
56	18251A0278	K.V.Sowmya	Intelligence traffic control system for smart ambulance
57	18251A02B7		
58	18251A0265		
59	18251A02A8		
60	18251A0262		

61	18251A02B4	V. Badri Rama Krishnan	Simulation and implementation of closed loop non-isolated Buck converter for mobile applications
62	19255A0210		
63	18251A0261		
64	18251A0286		
65	18251A0270		
66	18251A0235	PVSSA Parimala	V/F speed control of multilevel inverter based induction motor using SHEPWM
67	18251A0206		
68	18251A0229		
69	18251A0203		
70	18251A0240		
71	18251A0233	Prof. G. Gopinath	Automatic power factor correction unit
72	18251A0212		
73	18251A0222		
74	18251A0249		
75	18251A0237		
76	18251A0213	Dr. G. Annapurna	Design and fabrication of potable Inverter
77	18251A0241		
78	18251A0236		
79	18251A0239		
80	19255A0206		
81	18251A0296	Y.Priyanka	Comparative Analysis of Diode clamped Multilevel Inverters
82	19255A0208		
83	18251A0271		
84	18251A02A9		
85	18251A02A2		
86	18251A02B4	V. Badri Rama Krishnan	Bidirectional Converter for mobile charging
87	19255A0210		
88	18251A0261		
89	18251A0286		
90	18251A0270		

91	18251A0282	G.Ramana Reddy	The performance of PV-UPQC under distorted current and voltage conditions
92	19255A0212		
93	18251A0290		
94	18251A0284		
95	18251A0282		
96	19251A02A3	K.Priyamvada	TRIAC Based Load Controlling and Dynamic Temperature
97	20255A0212		
98	19251A02B1		
99	19251A02A5		
100	19251A02A3	G.Sujatha	Design & Experimentation of voltage control for PV-fed DC-DC converter
101	19251A0235		
102	19251A0251		
103	19251A0255		
104	19251A0232		
105	19251A0226	P.Buchibabu	Simulation and design of boost converter for PV system using MPPT algorithms
106	19251A0245		
107	19251A0243		
108	20255A0206		
109	19251A0221		
110	19251A0201	Ch.Leela Krishna	Hardware design and simulation of boost converter suitable for PV applications
111	19251A0242		
112	19251A0218		
113	19251A0238		
114	19251A0207		
115	19251A0209	G.Ramana Reddy	A New non - Isolated multi input DC-DC converter based Hybrid BLDC Electric Vehicle
116	19251A02B4		
117	19251A0285		
118	19251A0278		
119	19251A02B2		
120	19251A0290		

121	20255A0209	S.Bhulakshmi	UPS battery monitoring system using battery and supply changeover
122	19251A0291		
123	19251A0293		
124	19251A0261		
125	19251A0279		
126	20255A0207	K.SwarnaLatha	Design of MPPT controllers for PV cells using MATLAB
127	19251A0270		
128	19251A02A1		
129	19251A02B3		

II. Electric Vehicle

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE
1	17251A0257	P.SaiNiranjn Kumar	An Efficient Energy Management Approach for a Solar-Powered EV Battery Charging Facility to Support Distribution Grids(SIMULATION)
2	17251A0250		
3	17251A0204		
4	17251A0251		
5	17251A0260		
6	17251A0294	E.Gouthami	Estimation of Energy requirement based on Vehicle performance analysis using different drive cycles.
7	17251A0288		
8	17251A0295		
9	17251A02A6		
10	17251A0293	P.Mamta	Design and performance analysis of an Electric vehicle using MATLAB/Simulink
11	18255A0218		
12	17251A0269		
13	18255A0216		
14	17251A0270		
15	17251A02B5	Dr. T. Surya Prakash	Wireless power transmission for Electric vehicle
16	18251A0276		
17	18251A02B3		
18	18251A0289		
19	18251A02A3		
20	18251A0276		

21	18251A0246	Dr. R. Nageswara Rao	BLDC motor speed Control using fuzzy Logic
22	18251A0201		
23	18251A0260		
24	18251A0231		
25	19255A0205		
26	18251A0285	Dr.B. Ravichandra Rao	Design of a solar PV charging station for electric vehicles
27	19255A0211		
28	18251A02B2		
29	18251A02B9		
30	17251A0282		
31	19251A0244	P.SaiNiranjana Kumar	PV Integrated Battery Driven Electric Vehicle
32	19251A0215		
33	19251A0259		
34	19251A0248		
35	19251A0246		
36	19251A0224	E.Gouthami	Implementation of G2V and V2G technology in Microgrid using MATLAB/SIMULINK
37	19251A0212		
38	20255A0202		
39	19251A0205		
40	19251A0210		
41	19251A0222	Dr.P.Rama Krishna Reddy	Solar wireless electric vehicle charging system
42	19251A0257		
43	19251A0256		
44	19251A0260		
45	19251A0216		
46	19251A02A3	K.Priyamvada	MPPT based battery charging using solar energy
47	20255A0212		
48	19251A02B1		
49	19251A02A5		
50	19251A02A3		

III. IoT & Embedded system

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE
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1	17251A0262	Y.Priyanka	Fastest finger first project
2	17251A02B7		
3	17251A02B0		
4	18255A0224		
5	17251A02A1		
6	17251A02B8	Ch.Leela Krishna	Automatic street light controller
7	17251A02B4		
8	17251A02A3		
9	18255A0222		
10	17251A0263		
11	17251A0272	K.Krushna Murthy	Vehcile theft detection and tracking based on GSM and GPS
12	17251A0283		
13	18255A0219		
14	18258A0201		
15	17251A0290		
16	17251A0276	P.Tejaswi	IOT based early flood detection system
17	17251A0285		
18	17251A0273		
19	17251A02B2		
20	17251A02A8		
21	17251A0299	Dr.S.S.Tulasi Ram	Smart power system RFID based mobile charging system
22	17251A0266		
23	17251A02A4		
24	17251A0289		
25	17251A02B6		
26	17251A02A5	T.Surya Prakash	Data transfer through light
27	17251A02B1		
28	17251A0291		
29	17251A0292		
30	17251A0261		

31	17251A0268	Dr.N.Malla Reddy	Power meter billing plus load control using GSM
32	17251A0298		
33	17251A0274		
34	17251A02A2		
35	18255A0221		
36	17251A0294	E.Gouthami	Engine locking prototype to prvent drunken drive
37	17251A0288		
38	17251A0295		
39	17251A02A6		
40	17251A0293		
41	18255A0218	P.Mamta	Air quality monitoring system using aurdino
42	17251A0269		
43	18255A0216		
44	17251A0270		
45	17251A02B5		
46	17251A0296	P.BuchiBabu	Health monitoring system using aurdino
47	17251A02A9		
48	17251A0275		
49	18255A0215		
50	17251A0277		
51	18255A0213	V.Badri Rama Krishnan	Triggering of electrical loads using IOT
52	17251A0279		
53	17251A0280		
54	17251A0281		
55	17251A0278		
56	17251A0264	G.Ramana Reddy	DTMF base home automation system
57	17251A0265		
58	18255A0220		
59	17251A02B9		
60	18255A0223		

61	17251A0297	K.V.Dhana Lakshmi	Driver anti sleep device
62	17251A02A0		
63	17251A0286		
64	17251A02C0		
65	17251A0284		
66	17251A0205	G.Sujatha	Smart traffic signaling system
67	17251A0254		
68	17251A0203		
69	17251A0249		
70	17251A0253		
71	17251A0258	Dr.G.Annapurna	Power theft detection using aurdino
72	18255A0208		
73	17251A0201		
74	17251A0212		
75	17251A0229		
76	17251A0246	Dr.P.Rama Krishna Reddy	Autonomous self parking system
77	18255A0205		
78	17251A0259		
79	17251A0225		
80	17251A0214		
81	17251A0241	G.Ujwala	Automatic floor cleaner
82	17251A0256		
83	17251A0207		
84	17251A0219		
85	17251A0215		
86	17251A0220	P.Siva Prasad	Microcontroller based smart irrigation system
87	18255A0202		
88	17251A0230		
89	17251A0232		
90	17251A0244		

91	17251A0208	K.Pandu Kumar	Rain sensing automatic car wiper
92	17251A0210		
93	17251A0224		
94	17251A0213		
95	17251A0223		
96	17251A0217	K.V.Soumya	GSM controlled robot using microcontroller
97	17251A0209		
98	17251A0240		
99	17251A0234		
100	18255A0212		
101	17251A0217	K.V.Soumya	Smart IoT based Energy Metering System with Load Management Algorithm.
102	17251A0209		
103	17251A0240		
104	17251A0234		
105	18255A0212		
106	17251A0268	Dr.N.Malla Reddy	Iot Based Tampered Energy Meter Monitoring
107	17251A0298		
108	17251A0274		
109	17251A02A2		
110	18255A0221		
111	17251A0264	G.Ramana Reddy	Smart digital water management
112	17251A0265		
113	18255A0220		
114	17251A02B9		
115	18255A0223		
116	18251A0230	Ch. Leela Krishna	Car speed detector using arduino
117	18251A0223		
118	18251A0242		
119	18251A0210		
120	18251A0214		

121	18251A0234	K. Krishna Murthy	Smart road safety system
122	18251A0218		
123	18251A0253		
124	18251A0251		
125	18251A0205		
126	18251A0246	Dr. R. Nageswara Rao	IoT based smart waste Management system
127	18251A0201		
128	18251A0260		
129	18251A0231		
130	18251A0258	Dr. N. Malla Reddy	Fire and gas detection system for domestic applications
131	18251A0245		
132	18251A0256		
133	18251A0252		
134	18251A0250		
135	18251A0208	K.V. Dhanalakshmi	Smart parking monitoring system using RFID
136	18251A0224		
137	18251A0215		
138	18251A0254		
139	19255A0201		
140	18251A0259	P. Sai Niranjan Kumar	Water Quality monitoring system using IoT
141	18251A0207		
142	18251A0221		
143	18251A0226		
144	17251A0218		
145	18251A02A6	Dr. S.S. Tulasi Ram	Temperature controlled fan using arduino
146	18251A02B1		
147	18251A02B8		
148	18251A02A7		
149	18251A02A0		

150	18251A0296	P. Shiva Prasad	IoT based Home automation
151	19255A0208		
152	18251A0271		
153	18251A02A9		
154	18251A02A2		
155	18251A0280	G. Ujwala	IoT based Intelligent gas leakage detector using Arduino
156	18251A0274		
157	18251A0273		
158	18251A0267		
159	18251A0295		
160	18251A0285	Dr.B. Ravichandra Rao	Smart shoes for blind and deaf
161	19255A0211		
162	18251A02B2		
163	18251A02B9		
164	17251A0282		
165	18251A0282	P. Suresh	Smart Anti-Epidemic Wi-Fi Robot for COVID -19
166	19255A0212		
167	18251A0290		
168	18251A0284		
169	18251A0282		
170	18251A0275	P.Tejaswi	Implementation of power consumption monitoring and automated billing system using IoT
171	18251A0266		
172	18251A0272		
173	18251A02A4		
174	18251A0281		
175	18251A02B0	G. Sujatha	Automated control and fault clearance of a DC Microgrid using IoT
176	18251A0263		
177	18251A0297		
178	18251A02B5		
179	18251A0291		

180	18251A0278	K.V.Sowmya	Hybrid power generation of solar & wind energy monitoring through IoT
181	18251A02B7		
182	18251A0265		
183	18251A02A8		
184	18251A0262		
185	18251A02A1	P. Mamta	Monitoring and control of substation parameters using GSM module
186	18251A0264		
187	18251A0294		
188	18251A0287		
189	17251A0237		
190	19251A0204	Dr.N.Malla Reddy	Finger Print Door Lock System
191	20255A0203		
192	20255A0205		
193	19251A0236		
194	19251A0250		
195	19251A0211	K.V.Dhana Lakshmi	Temperature Controlled Automatic Barrier
196	19251A0227		
197	19251A0202		
198	20255A0204		
199	19251A0225		
200	19251A0235	G.Sujatha	Arduino Based Automatic Waste Segregator using IoT
201	19251A0251		
202	19251A0255		
203	19251A0232		
204	19251A0226		
205	20255A0201	G.Ujwala	IoT Based Smart Energy Meter Monitoring With Theft Detection
206	19251A0252		
207	19251A0239		
208	19251A0220		
209	19251A0240		

210	19251A0234	P.V.S.S.A.Parimala	Smart Scrolling LED Display Screen using Arduino
211	19251A0249		
212	19251A0214		
213	19251A0228		
214	19251A0206		
215	19251A0241	K.Pandu Kumar	Smart Attendance System
216	19251A0203		
217	19251A0223		
218	19251A0229		
219	19251A0217		
220	19251A0231	B.Abhinethri	IoT Based Health Monitoring System
221	19251A0230		
222	19251A0258		
223	19251A0213		
224	19251A0219		
225	19251A0242	Ch.Leela Krishna	Bluetooth Controlled Robotic Car
226	19251A0218		
227	19251A0238		
228	19251A0207		
229	19251A0209		
230	19251A0282	Dr.B.Ravichandra Rao	Monitoring Weather and Time Using Arduino
231	19251A0287		
232	19251A02A9		
233	19251A0271		
234	19251A02A8		
235	19251A02B4	G.Ramana Reddy	IoT Based Energy Meter using ESP12 & Arduino
236	19251A0285		
237	19251A0278		
238	19251A02B2		
239	19251A0290		

240	20255A0210	Dr.R.Nageswara Rao	Digital Thermometer and Pulse Rate Meter using Arduino
241	19251A0295		
242	19251A0263		
243	19251A0284		
244	19251A02A7		
245	19251A0289	Dr.G.Satheesh	Fault Detection in Transmission Lines using Arduino
246	19251A0269		
247	19251A0297		
248	19251A02B5		
249	19251A0289		
250	19251A0264	Dr.G.Annapurna	IoT Based Smart Plant Watering System
251	19251A0268		
252	19251A02B0		
253	19251A02B7		
254	19251A0266		
255	20255A0208	V.BadriRamakrishnan	Arduino Based Voltage and Current Display
256	19251A0294		
257	19251A0283		
258	19251A02A0		
259	19251A02B6		
260	19251A0231	B.Abhinethri	Blue tooth controlled Robotic car with wireless camera and metal detection
261	19251A0230		
262	19251A0258		
263	19251A0213		
264	19251A0219		
265	20255A0211	P.Mamta	A patient health monitoring system based on IoT
266	19251A0262		
267	19251A02A4		
268	19251A0286		
269	19251A0277		

270	19251A0264	Dr.G.Annapurna	LPG gas leakage detection and alert system
271	19251A0268		
272	19251A02B0		
273	19251A02B7		
274	19251A0266		

IV. Power & Energy.

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE
1	17251A0242	K.Swamalatha	Network based fire detection for industrial and home appliances
2	17251A0206		
3	18255A0206		
4	17251A0231		
5	17251A0222		
6	17251A0239	B.Narmada	Power walk
7	17251A0226		
8	17251A0243		
9	17251A0227		
11	17251A0258	Dr.G.Annapurna	Energy efficient and fully autonomous residential power management solution
12	18255A0208		
13	17251A0201		
14	17251A0212		
15	17251A0229		
16	17251A0239	B.Narmada	Wireless power transmission from solar input
17	17251A0226		
18	17251A0243	B.Narmada	Wireless power transmission from solar input
19	17251A0227		
21	17251A0299	Dr.S.S.Tulasi Ram	Power Quality Improvement and Low Voltage Ride Through Capability in Hybrid Wind-PV Farms Grid-Connected Using Dynamic Voltage Restorer
22	17251A0266		
23	17251A02A4		
24	17251A0289		
25	17251A02B6		

26	17251A02A0	K.V.Dhana Lakshmi	GI based control method for Single Stage Grid interfaced SECS designed for Power Quality Improvement.
27	17251A0286		
28	17251A02C0		
29	17251A0284		
30	17251A02B3		
31	18251A0243	P. Buchibabu	Automated load shedding
32	18251A0232		
33	18251A0202		
34	18251A0238		
35	19255A0203		
36	18251A0233	Prof. G. Gopinath	Under ground Cable fault detection
37	18251A0212		
38	18251A0222		
39	18251A0249		
40	18251A0237		
41	18251A0244	K. Swamalatha	Power generation using foot steps
42	18251A0225		
43	18251A0228		
44	18251A0247		
45	19255A0202		
46	18251A0255	E. Gouthami	Implementation of automatic wiper system using Servo motor and rain sensor
47	18251A0211		
48	18251A0217		
49	18251A0219		
50	19255A0204		
51	18251A0213	Dr. G. Annapurna	Automated Street lighting system
52	18251A0241		
53	18251A0236		
54	18251A0239		
55	19255A0206		

56	18251A0257	G. Ramana Reddy	Alochol detection with engine locking system
57	18251A0204		
58	18251A0248		
59	18251A0220		
60	18251A0216		
61	19255A0207	B. Narmada	Arduino based lineman protection system with user interface circuit
62	18251A0277		
63	18251A0288		
64	18251A02C0		
65	18251A0269		
66	18251A0275	P.Tejaswi	Smart energy metering and theft detection using IoT
67	18251A0266		
68	18251A0272		
69	18251A02A4		
70	18251A0281		
71	18251A0293	Dr. P. Ramakrishna Reddy	Regenerative Braking system
72	18251A0268		
73	19255A0209		
74	18251A02B6		
75	18251A0298		
76	18251A0230	Ch. Leela Krishna	Simulation of Two-Area AGC system in a competitive environment using reduced -order observer Method
77	18251A0223		
78	18251A0242		
79	18251A0210		
80	18251A0214		
81	18251A0234	K. Krishna Murthy	An improved load flow Analysss for radial Distribution system
82	18251A0218		
83	18251A0253		
84	18251A0251		
85	18251A0205		

86	18251A0258	Dr. N. Malla Reddy	Voice integrated speed and direction control of DC motor
87	18251A0245		
88	18251A0256		
89	18251A0252		
90	18251A0250		
91	18251A0208	K.V. Dhanalakshmi	Prototype of Transmission line fault detection using Arduinio with GSM and GPS
92	18251A0224		
93	18251A0215		
94	18251A0254		
95	19255A0201		
96	18251A0259	P. Sai Niranjan Kumar	Speed control of BLDC motor using PWM technique
97	18251A0207		
98	18251A0221		
99	18251A0226		
100	17251A0218		
101	18251A0293	Dr. P. Ramakrishna Reddy	Smart highway lighting control, help button and breakdown of light detection
102	18251A0268		
103	19255A0209		
104	18251A02B6		
105	18251A0298		
106	18251A0276	Dr. T. Surya Prakash	Super Glove for Women
107	18251A02B3		
108	18251A0289		
109	18251A02A3		
110	18251A0276		
111	19251A0224	E.Gouthami	Water Level Indicator
112	19251A0212		
113	20255A0202		
114	19251A0205		
115	19251A0210		

116	19251A0222	Dr.P.Rama Krishna Reddy	A Prototype of Thermal Power Plant
117	19251A0257		
118	19251A0256		
119	19251A0260		
120	19251A0216		
121	19251A0233	B.Narmada	Smart Blink Stick
122	19251A0208		
123	19251A0247		
124	19251A0237		
125	19251A0254		
126	19251A0245	P.Buchibabu	A Prototype of Hydro Electric Power Plant
127	19251A0243		
128	20255A0206		
129	19251A0221		
130	19251A0201		
131	20255A0209	S.Bhulakshmi	Transformer Health Monitoring System
132	19251A0291		
133	19251A0293		
134	19251A0261		
135	19251A0279		
136	20255A0211	P.Mamta	Stress Monitoring System
137	19251A0262		
138	19251A02A4		
139	19251A0286		
140	19251A0277		
141	20255A0207	K,SwarnaLatha	Wireless Battery Charger
142	19251A0270		
143	19251A02A1		
144	19251A02B3		
145	19251A0273		

146	19251A0275	Dr.T.Surya Prakash	Anti-Sleep Alarm for Drivers
147	19251A0265		
148	19251A02A2		
149	19251A0272		
150	19251A02A6		
151	19251A0298	V.SumaDeepthi	WIFI Based Speed Control of DC Motor using NodeMCU
152	19251A0288		
153	19251A0296		
154	19251A0281		
155	19251A0204	Dr.N.Malla Reddy	Fauly detection in under ground cables using Microcontroller
156	20255A0203		
157	20255A0205		
158	19251A0236		
159	19251A0250		
160	20255A0201	G.Ujwala	IoT based energy meter with billing system and load privilization
161	19251A0252		
162	19251A0239		
163	19251A0220		
164	19251A0240		
165	19251A0244	P.SaiNiranjn Kumar	Speed control of single phase induction motor using android bluetooth module
166	19251A0215		
167	19251A0259		
168	19251A0248		
169	19251A0246	K.Pandu Kumar	Battery storage management system
170	19251A0241		
171	19251A0203		
172	19251A0223		
173	19251A0229		
174	19251A0217		

175	19251A0282	Dr.B.Ravichandra Rao	Smart shoe - generates electricity
176	19251A0287		
177	19251A02A9		
178	19251A0271		
179	19251A02A8		
180	19251A0267	Y.Priyanka	Load demand response controller
181	19251A0276		
182	19251A0274		
183	19251A0299		
184	19251A0275	Dr.T.Surya Prakash	AGRIBOT: Agriculture Robot
185	19251A0265		
186	19251A02A2		
187	19251A0272		
188	19251A02A6		
189	20255A0208	V.BadriRamakrishnan	Simulation and Implementation of speed control of single phase induction motor using microcontroller
190	19251A0294		
191	19251A0283		
192	19251A02A0		
193	19251A02B6		

V. Renewable Energy System

S.No	ROLL. NO.	NAME OF THE GUIDE	TITLE
1	17251A0267	Dr.R.Nageshwara Rao	Sun tracking solar panel
2	18255A0217		
3	17251A0271		
4	18255A0214		
5	17251A0287		
6	18255A0201	K.Priyamvada	Solar powered water surface cleaning boat
7	17251A0202		
8	17251A0216		
9	18255A0210		
10	17251A0236		

11	17251A0257	P.SaiNiranjan Kumar	Solar based lawn mower
12	17251A0250		
13	17251A0204		
14	17251A0251		
15	17251A0260		
16	17251A0233	P.Suresh	Automatic solar water pumping system for irrigation
17	17251A0211		
18	18255A0209		
19	18255A0204		
20	16251A0217		
21	17251A0241	G.Ujwala	Performance Enhancement of Integrated Solar-Wind Hybrid Energy System using MPPT controller
22	17251A0256		
23	17251A0207		
24	17251A0219		
25	17251A0215		
26	17251A0242	K.Swarnalatha	PV Solar system control as statcom (PV-STATCOM) for Power Oscillation Damping.
27	17251A0206		
28	18255A0206		
29	17251A0231		
30	17251A0222		
31	17251A0247	B.Ravichandra Rao	Renewable Energy Sources Integration and Control in Railway Microgrid
32	17251A0221		
33	17251A0235		
34	17251A0245		
35	17251A0248		
36	17251A0220	P.Siva Prasad	Solar-based automatic control of light illumination intensity using high boost DC to DC converter.
37	18255A0202		
38	17251A0230		
39	17251A0232		
40	17251A0244		

41	17251A0233	P.Suresh	Solar PV Generation System Interfaced to Three Phase Grid along with Compensation for Improved Power Quality.
42	17251A0211		
43	18255A0209		
44	18255A0204		
45	16251A0217		
46	17251A02B8	Ch.Leela Krishna	Comparison of Maximum power from a solar PV system between incremental conductance method and fuzzy controller based mppt technique
47	17251A02B4		
48	17251A02A3		
49	18255A0222		
50	17251A0263		
51	17251A0272	K.Krushna Murthy	Modelling of grid connected PV system with Constant Current Controller
52	17251A0283		
53	18255A0219		
54	18258A0201		
55	17251A0290		
56	17251A0276	P.Tejaswi	Accurate forecasting of PV output using machine learning Algorithms.
57	17251A0285		
58	17251A0273		
59	17251A02B2		
60	17251A02A8		
61	17251A0296	P.BuchiBabu	Comparative study of P&O and incremental conductance algorithm using MPPT for photovoltaic array/cell
62	17251A02A9		
63	17251A0275		
64	18255A0215		
65	17251A0277		
66	18251A0235	PVSSA Parimala	Solar powered wireless weather station
67	18251A0206		
68	18251A0229		
69	18251A0203		
70	18251A0240		

71	18251A0292	K. Priyamvada	Solar powered automatic Irrigation system
72	18251A0279		
73	18251A02A5		
74	18251A0283		
75	18251A0299		
76	18251A02A1	P. Mamta	Wind powered car
77	18251A0264		
78	18251A0294		
79	18251A0287		
80	17251A0237		
81	18251A0243	P. Buchibabu	Comparision of P&O, Incremental conductane and fuzzy logic based MPPT algorithms for 1 KW PV system
82	18251A0232		
83	18251A0202		
84	18251A0238		
85	19255A0203		
86	18251A0244	K. Swarnalatha	Permance analysis of solar PV array and battery integrated unified power quality conditioner for microgrid systems
87	18251A0225		
88	18251A0228		
89	18251A0247		
90	19255A0202		
91	18251A0255	E. Gouthami	Design and implementation of automatic solar street light
92	18251A0211		
93	18251A0217		
94	18251A0219		
95	19255A0204		
96	18251A0257	G. Ramana Reddy	Design and implementation of automatic solar street light
97	18251A0204		
98	18251A0248		
99	18251A0220		
100	18251A0216		

101	19255A0207	B. Narmada	Grid interfaced solar PV based water pumping system
102	18251A0277		
103	18251A0288		
104	18251A02C0		
105	18251A0269		
106	18251A02A6	Dr. S.S. Tulasi Ram	Battery management system using solar energy and IoT
107	18251A02B1		
108	18251A02B8		
109	18251A02A7		
110	18251A02A0		
111	18251A0292	K. Priyamvada	Smart Solar grass cutter with lawn coverage
112	18251A0279		
113	18251A02A5		
114	18251A0283		
115	18251A0299		
116	18251A0280	K.Pandu Kumar	Design of solar maximum power point tracking and its application to green house
117	18251A0274		
118	18251A0273		
119	18251A0267		
120	18251A0295		
121	19251A0267	Y.Priyanka	Solar Road Studs
122	19251A0276		
123	19251A0274		
124	19251A0299		
125	19251A0280		
126	19251A0211	K.V.Dhana Lakshmi	Fault diagnosis and monitoring of small wind turbine using IoT
127	19251A0227		
128	19251A0202		
129	20255A0204		
130	19251A0233		
131	19251A0208	B.Narmada	Simulation of wind solar based hybrid power generation system using MATLAB
132	19251A0247		
133	19251A0237		

135	19251A0234	P.V.S.S.A.Parimala	Rotor and grid side control of DFIG based wind energy system using MATLAB/Simulink
136	19251A0249		
137	19251A0214		
138	19251A0228		
139	19251A0206		
140	20255A0207	K.SwarnaLatha	Design of MPPT controllers for PV cells using MATLAB
141	19251A0270		
142	19251A02A1		
143	19251A02B3		
144	19251A0273		
145	19251A0289	Dr.G.Satheesh	Solar Powered automatic rain protection for field crops using arduino UNO and moisture level monitoring system
146	19251A0269		
147	19251A0297		
148	19251A02B5		
149	19251A0289		
150	19251A0298	V.SumaDeepthi	Dual axis solar tracker with weather monitoring system
151	19251A0288		
152	19251A0296		
153	19251A0281		

D. Process for monitoring and evaluation (2):

After the project batches are finalized and guides are assigned, students commence their project work. In the entire project period, to assess the progress of the work Project Review meetings are conducted. During Project Review Committee meetings, each project group is reviewed by supervisors. The committee members will then review the progress of the projects and provide appropriate feedback, including any necessary modifications or suggestions. At the time of PRC meetings, project progress forms are to be submitted indicating the status of the work.

G.Narayanamma Institute of Technology & Science (for Women)
Department of Electrical & Electronics Engineering
Major Project Phase-I(A.Y. 2023-24, Sem-I)
Submission of Project Title and Abstract for Project Review-I

Batch No. : 1
 Section: EEE - A
 Date: 21-08-2023

S.No	Item	Description
1	Project Title	Surveillance Drone
2	Abstract	Surveillance Drone deals with the making of an autonomous system of unmanned aerial vehicle to suit the purpose of rescue operation. With the added feature of live streaming, it takes video of such disastrous place. The video output is monitored in real time basis and the exact location of critical condition is made known. The use of drone not only facilitates the accessibility of places hard to provide us with a wide view of the area increasing the range of monitored area. Thus, the project can be summarized as an unmanned aerial vehicle that can be used in those areas where there is need of continuous monitoring and watching of terrain is difficult and time consuming.
3	Nature of Project: i. Hardware: <input type="checkbox"/> ii. Software: <input type="checkbox"/> iii. Both Hardware & software: <input checked="" type="checkbox"/> Software used:	
4	Location: (GNITS / Others)	GNITS

Batch Members:

S.No	Name	Roll Number	Signature
1	K.Sri Varsha	20231A0211	
2	G. Tejaswi	20231A0235	
3	J.Meghana	20231A0238	
4	P. Tejaswi	20231A0241	
5	N.Pranitha	21235A0211	

Project Guide
 (Dr. P.Rama Krishna Reddy)

HOD-EEE
 (Dr. P. Basu Krishna Reddy)

Project Coordinator
 (Mrs. Nandini Reddy)

Fig. 2.2.3.2 PRC Circular

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
 (AUTONOMOUS)
 Shaktipet, Hyderabad - 500094
 Department of Electrical and Electronics Engineering
 Evaluation sheet for Major Project for 4th B.Tech
 A.V. 2023-24 Sem-I

Date: 25/11/23

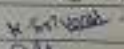


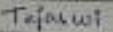

TITLE	Sareelare Drone	
BATCH: AI	GUIDE: Dr. P.Rama Krishna Reddy	


WORK FINISHED IN PHASE-I

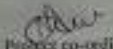
In phase-I of our major project, we gathered essential information and procure the necessary components and successfully built the drone and created a flight controller using Arduino. We have also made progress in communication by developing a receiver with Arduino.

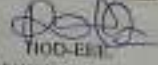
WORK PLAN FOR PHASE-II

In phase-II we will assemble the transmitter, incorporating Arduino Nano for efficient control, and securely mount the camera onto the drone.

Roll number	Name of the student	Signature
20251A0213	K.SRI VARSHA	
21255A0211	NEELA PRANITHA	
20251A0238	ELAKANTI MEGHANA	
20251A0233	GANDAMALLA TEJASWI	
20251A0243	POOSETTY TEJA SRI	


 (Dr. P. Rama Krishna Reddy)


 Project co-ordinator
 (Dr. P. Rama Krishna Reddy)


 HOD-EEET
 (Dr. P. Rama Krishna Reddy)

Comments by PRC members:

Senior Faculty:	Guide:
→ Selection of the project is good → Applications are good → presented well → purchased all component → Started hardware → Suggested to include some design calculation N.M. M. L. P.	

Allocation of marks by Project Review number Senior Faculty:

Roll number	Name of the student	Work done (25)	Quality of report (30)	Presentation (15)	Total (70)
20251A0213	K SRI VARSHA	24	28	15	67
21255A0211	NEELA PRANITHA	22	28	14	64
20251A0238	AJAKANTI MEGHANA	24	28	15	67
20251A0233	GANDARALLA TEJASWI	22	28	13	63
20251A0245	PODDETTY TEJA SRI	21	28	12	61

Allocation of marks by each:

Roll number	Name of the student	Work done (25)	Quality of report (30)	Presentation (15)	Total (70)	*CIE (30)
20251A0213	K SRI VARSHA	25	25	15	65	28
21255A0211	NEELA PRANITHA	20	25	15	60	25
20251A0238	AJAKANTI MEGHANA	25	25	15	65	28
20251A0233	GANDARALLA TEJASWI	20	25	15	60	25
20251A0245	PODDETTY TEJA SRI	20	25	13	58	22

*Continuous internal evaluation

Signature of PRC: N.M. M. L. P. 23/11/23

Signature of Guide: [Signature]

Fig. 2.2.3.3 : PRC Evaluation Sheet

◦ The following Table 2.2.3.3 shows the criteria to be followed during the evaluation of project reviews.

Table 2.2.3.3: Process of Project Review

Review No.	Review Process
Review-1	The Project batch will present their problem statement and plan of action in the form of Objectives and Methodologies which are to be implemented in the two phases. Abstract approval and Project registration are finalized.

Review -2	Proposed Techniques and Methodology chosen by students will be validated.
Review-3	The implementation of proposed Techniques and Methodologies will be assessed and partial results are also reviewed.
Review-4	The final output and project thesis will be verified and approved by the PRC members.

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

The project review committee and project supervisor assesses the individual and team performance by continuous reviews and semester end viva-voce examination. The assessment of final year students' project work is done considering following criteria:

- Definition of Problem Statement
- Objectives and Plan of Action
- Inferences from Literature Review
- Comparisons between existing and proposed system
- Implementation of proposed techniques
- Presentation of End Result
- Documentation, Paper Publications/Patents

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

- a. The Phase - I of Project work shall be carried out during IV Year I Semester and Phase - II during IV Year II Semester. The student has to prepare two independent Project Work Reports – one during each phase. First Report shall include the Project Work carried out until 100 marks each.

Table 2.2.3.4 Assessment Criteria Phase-I and Phase-II

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

- b. The Marks earned under CIE for both Phases of the Project shall be awarded by the Project Supervisor based on the continuous evaluation of student's performance during the two phases of Project Work and the marks earned under SEE shall be awarded by the Project Supervisor.
 - 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 examiners).
 - 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 end examination by the HOD.
- o The students are motivated to publish their work in reputed journals/ patents and participate in project expos.

Tables 2.2.3.5 shows the Assessment for Continuous Internal Evaluation during reviews. Rubrics are listed for evaluating Project work in CIE for Phase-I and Phase-II.

- Requirements analysis
- Literature survey
- Design
- Implementation
- Project documentation & Delivery

Table 2.2.3.5 Assessment criteria for Continuous Internal Evaluation (Project Phase-I & II)

Reviews	Course Code	Requirements analysis	Literature survey	Design	Implementation	Project documentation & Delivery
		6M	6M	6M	6M	6M

Table2.2.3.6 Rubrics for Project work assessment:

Assessment Criteria	Excellent (3)	Good (2)	Fair (1)	Unsatisfactory (0)
Requirements analysis	>80%	> 70% &< 80%	> 60% &<70%	<60%
Literature survey	>80%	> 70% &< 80%	> 60% &<70%	<60%
Design	>80%	> 70% &< 80%	> 60% &<70%	<60%
Implementation	>80%	> 70% &< 80%	> 60% &<70%	<60%
Project documentation & Delivery	>80%	> 70% &< 80%	> 60% &<70%	<60%



Fig. 2.2.3.4 : Process for evaluation of Project

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

- The project works of the students are categorized
 1. According to the Centers of Excellence and Research Centers
 2. Based on Hardware or Simulation project
- Towards the conclusion of the project period, prior to the submission of the thesis, it is customary to host a Project Expo where Best Projects are recognized.

Table 2.2.3.7 : List of Project Works according to CoE and RC

Projects under CoE- Advanced Power electronic Converter		
Academic Year	Hardware Projects	Software Projects
2020-2021	1	4
2021-2022	1	3
2022-2023	3	1

Projects under CoE- Electric Vehicles		
Academic Year	Hardware Projects	Software Projects
2020-2021	-	3
2021-2022	2	-

2022-2023	1	2
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Projects under CoE- Virtual Reality		
Academic Year	Hardware Projects	Software Projects
2020-2021	1	-
2021-2022	1	1
2022-2023	3	-

Projects under CoE- Renewable energy System		
Academic Year	Hardware Projects	Software Projects
2020-2021	1	6
2021-2022	3	2
2022-2023	2	4

Projects under RC- Power and Energy systems		
Academic Year	Hardware Projects	Software Projects
2020-2021	-	7
2021-2022	3	3
2022-2023	1	5

Projects under RC-IoT& Embedded systems		
Academic Year	Hardware Projects	Software Projects
2020-2021	5	-
2021-2022	8	-
2022-2023	4	-

Table 2.2.3.8 : List of Best Projects

2019-23 Batch

S.No	Roll No	Student Name	Title
1	19251A0242	NALLA SREEJA REDDY	Hardware design and simulation of boost converter
	19251A0218	CH SUPRAJA	
	19251A0238	MADHAPURAM SMITHIKA	
	19251A0207	BODE SHREYA YADAV	
	19251A0209	BESOLLA AISHWARYA	
	19251A0253	TEJAVATH BHARGAVI	

2	19251A0234	KAPARTHI AALAYA	Rotor and grid side control of DFIG based wind energy system
	19251A0249	SABAVATH TEJASHWINI	
	19251A0214	BHORE NEHA	
	19251A0228	GOVALA SAI PRAVALLIKA	
	19251A0206	ALAKUNTLA YASHASWINI	
3	19251A02B4	THADISHETTI SHIVANI	A new non-isolated multi input DC-DC converter
	19251A0285	MACHARLA SIRI CHANDANA	
	19251A0278	JAINA NAVANEETHA	
	19251A02B2	THIRUVEEDHULA PRIYANKA	
	19251A0290	MARIYAN INDHU SRI	
4	20255A0209	JOGULA.SRI CHANDANA	UPS battery monitoring system
	19251A0291	MARTHA THANUJA	
	19251A0293	MOGILI SRIHARSHITHA	
	19251A0261	ALAPATI SHRILASYA	
	19251A0279	JAKKA BHAVANI	

2018-22 BATCH

S.No	Roll No	Student Name	Title
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1	18251A0258	Vadyala Kavya	Voice integrated speed and direction control of DC motor
	18251A0245	Kavali Akshatha	
	18251A0256	Tedla Monica	
	18251A0252	Sree Haritha P	
	18251A0250	Nagapuri Sai Sruthi Yadav	
2	18251A0208	Etikela Sai Nikhitha	Prototype of <u>Transmission line fault detection using Arduino with GSM and GPS</u>
	18251A0224	Samrin Sultana	
	18251A0215	Katru Rinny	
	18251A0254	Shaik Karishma	
	18251A0244	Mohammad Anjum Thabasum	
	19255A0201	Katla Priyanka	
3	18251A0278	L.Vinitha	Hybrid power generation of solar & wind energy monitoring through IoT
	18251A02B7	Suroju Uma Maheshwari	
	18251A0265	Chelmal Gowri Nandana	
	18251A02A8	Mekala Shirisha	
	18251A0262	Balamvennelareddy	
4	18251A0257	Udarapu Gurucharana	Design and implementation of automatic solar street light
	18251A0204	Banavath Swetha	
	18251A0248	Macha Sneha	
	18251A0220	Nagarala Meghana	
	18251A0216	Lavadiya Prasanna	

2017-21 BATCH

S.No	17251A0205	D.sai Harshitha	Non-isolated DC-DC Converter fed to different levels of Diode Clamped Multi-level Inverter
1	17251A0254	SAI DEEPSHIKA VALAM	
	17251A0203	BOMMENA SNIKITHA	
	17251A0249	PATY PREETHI	
	17251A0253	S JAGADEESH NIKHITHA	
2	17251A0258	VANGARI BHAVANA	Energy efficient and fully autonomous residential power management solution
	18255A0208	DODLA ANITHA	
	17251A0201	AMBATI KEERTHSRI	
	17251A0212	LAVETI DEEKSHA SREE	
	17251A0229	VARSHA SINGANNAGARI	
3	17251A0246	MAHEEN FATHIMA	Design of hybrid forward boost converter for renewable energy powered electric vehicle charging applications
	18255A0205	TEPPA KOMALA	
	17251A0259	YALAKAMANI SUNITHA	
	17251A0225	SEEMA SHIRIN	
	17251A0214	M RACHANA	
4	17251A0268	CHELPUR BHAVANA	Iot Based Tampered Energy Meter Monitoring
	17251A0298	ITIKYALA MOUNA	
	17251A0274	KOTA VANDANA PRIYA	
	17251A02A2	KORIVI LALASA	
	18255A0221	PILLI RACHANA	

5	17251A0264	ANASI NIKITHA	Smart digital water management
	17251A0265	ANGADI RAMYA SAI	
	18255A0220	NARIGE SUPRIYA	
	17251A02B9	THEETLA MEGHANA	
	18255A0223	AMUDALA DEEPIKA	
	17251A0297	G G BHAVANI CHAITHANYA	
6	17251A0267	C RAJA RAJESHWARI	Implementation and analysis of three type pulse width modulation techniques
	18255A0217	ASHPA ALEKHYA	
	17251A0271	GAANALOLA TANKASALA	
	18255A0214	MANDALA SHIRISHA	
	17251A0287	TALARI ANUPAMA	

G. Evidence of papers published/awards received by projects (3):

Journal publications provide a platform for showcasing research findings to a wider audience, including academicians and professionals. Publishing in reputed journals enhances the visibility and recognition of the project work within the relevant community. Also it offers opj

Each project batch is encouraged to disseminate their work through publications in journals, books and patents.

The following tables give details of publication of books and journals.

Table 2.2.3.9 : List of Books

SI. No.	Name of the teacher	Title of the book published	Year of publication	Name of the publisher
1	Dr.N.Malla Reddy	IOT based Tampered Energy Meter Monitorin	2023	Lambert Academia Publisher
2	Prof.G.Gopinath	SMART ROBOT GRASS CUTTER WITH LAWN COVERAGE BASED ON SOLAR POWER	2023	Lambert Academia Publisher
3	Mr.G.Ramana Reddy	SMART DIGITAL WATER MANAGEMENT SYSTEM	2023	Lambert Academia Publisher
4	Dr.R.NageswaraRao	Thyristor Power Control	2023	Lambert Academia Publisher

5	Mrs.G.Ujwala	IoT based Energy Meter with billing system and load prioritization	2023	Lambert Academia Publisher
6	Mrs.E.Goutami	Estimation of Energy requirement based on Vehicle Performance analysis using different Drive Cycles	2023	Lambert Academia Publisher
7	Mrs.K.Swarna Latha	GRID CONNECTED SYSTEM USING MULTI-LEVEL INVERTER	2023	Lambert Academia Publisher
8	Mrs.K.Priyamvada	MPPT Based Battery Charging	2023	Lambert Academia Publisher
9	Mr.P.Buchibabu	A COMPARITIVE STUDY OF P&O AND INCREMENTAL CONDUCTANCE ALGORITHM	2023	Lambert Academia Publisher
10	Mr.P.Sai Niranjan Kumar	STUDY OF AUTOMATIC SOLAR STREET LIGHT	2023	Lambert Academia Publisher
11	Mr.K.Pandu Kumar	AUTOMATED AIR COOLED THREE LEVEL INVERTER SYSTEM	2023	Lambert Academia Publisher
12	Ms.Y.Priyanka	A Novel Three Phase Multilevel Inverter with single DC Link for Induction Motor Drive Application	2023	Lambert Academia Publisher
13	Ms.G.Sujatha	SMART TRAFFIC SIGNALLING SYSTEM	2023	Lambert Academia Publisher
14	Ms.P.Mamta	Design and performance analysis of an Electric Vehicle	2023	Lambert Academia Publisher
15	Mrs.K.V.Sowmya	Smart IoT based Energy meter with Load Management Algorithm	2023	Lambert Academia Publisher
16	V Badri Rama Krishnan	SMART SOLAR CHARGE CONTROLLER USING SYNCHRONOUS BUCK CONVERTER	2023	Lambert Academia Publisher
17	Mrs.K.V.DhanaLakshmi	A Novel Fault Tolerant Twenty-one Level Inverter with Induction Drive	2023	Lambert Academia Publisher

18	Mrs.P.V.S.S.A.Parimala	Solar PV Generation system Interfaced to 3-phase Grid with compensation	2023	Lambert Academia Publisher
19	Dr T. Hima Bindu	Hybrid Power Generation using wind and Solar Energy Monitoring	2023	Lambert Academia Publisher
20	Mrs.V Suma deepthi	Cuk Converter-based BLDC motor for water pumping system	2023	Lambert Academia Publisher
21	Dr. G Sateesh	SOLAR POWERED AUTOMATIC RAIN PROTECTION FOR FIELD CROPS USING ARDUINO	2023	Lambert Academia Publisher
22	Mrs.B.Abhinethri	Broadband over power line	2023	Lambert Academia Publisher
23	Mrs.S.Bhulakshmi	Seven Level Inverter	2023	Lambert Academia Publisher
24	Mr.Somu Chaithanya	Multilevel Inverters	2023	Lambert Academia Publisher
25	Mrs.K.V.DhanaLakshmi	PQ Improvement of Electrified Transportation by Fuzzy Logic Control	2023	Lambert Academia Publisher
26	Mrs.V.SumaDeepthi	Capacitor Added DVR for Smes Emulator/Battery for Better Enactment	2023	Lambert Academia Publisher
27	Mrs.V.SumaDeepthi	Dual Axis Solar Tracker With Weather Monitoring System	2023	Lambert Academia Publisher
28	Dr N Malla Reddy	Density Based Traffic Control System	2023	VSRD Academic Publishing
29	Mr.G.Ramana Reddy	Digitalized Smart Water Management System	2023	VSRD Academic Publishing
30	Dr. R Nageswara rao	A novel bidirectional T-Type multilevel inverter for electric vehicle applications	2023	VSRD Academic Publishing
31	Mrs.K.Priyamvada	Cogeneration Of Grid-Connected Wind-Photovoltaic System Using back-To-Back voltage source converters	2023	VSRD Academic Publishing

32	Mr.V Badri Rama Krishnan	Mppt Using P And O Algorithm	2023	VSRD Academic Publishing
33	Dr.P.Rama Krishna Reddy	Design of single phase transformer of various sizes using MATLAB	2023	VSRD Academic Publishing
34	Dr.G.Annapurna	Design and Simulation of Electrical Power System of Nano Satellite	2023	VSRD Academic Publishing
35	Mrs.G.Ujwala	Mppt Based Performance Enhancement Ofintegrated Hybrid Wind-Solar Energy System	2023	Archers & Elevators Publishing House
36	Mr.P.Buchibabu	A Single Phase Voltage Controlled Grid Connected Photovoltaic System With Powerquality Conditioner Functionality	2023	Archers & Elevators Publishing House
37	Mr.P.SaiNiranjan Kumar	Development of an integrated power converter for fast charging and efficiency Enhancement In Electric Vehicles	2023	Archers & Elevators Publishing House
38	Mrs.Y.Priyanka	Solar energy management of microgrid using Battery and Super capacitor By DC-DC converter	2023	Archers & Elevators Publishing House
39	Mr.Ch.LeelaKrishna	Automatic Power Factor Correction Using Arduino Microcontroller	2023	Archers & Elevators Publishing House
40	Mrs.G.Sujatha	Different levels of diodeclamped multi-Level inverter Fed By Non-Isolated Dc-Dc Converter	2023	Archers & Elevators Publishing House
41	Dr T. Himabindu	Low Voltage Ride through capability And Improvement Of Power Quality Inhybridwind-Pvfarmsgrid Connected Using dynamic voltage restorer	2023	Archers & Elevators Publishing House
42	Mrs.V Suma deepthi	IoT based Battery Management System using Solar Energy	2023	Archers & Elevators Publishing House

43	Dr. G Sateesh	Under Distorted current and Voltage Conditions :Analyzing The Performance Of PV-UPQC	2023	Archers & Elevators Publishing House
44	Mr.P.SaiNiranjan Kumar	Study Of Automatic Solar Streetlight	2023	Archers & Elevators Publishing House
45	Dr. P Ramakrishna Reddy	Bidirectional Control Principle of ATHPF	2023	Archers & Elevators Publishing House
46	Mrs.P.Mamta	Monitoring And Control Of Substation Parameters Using Gsm Module	2023	Archers & Elevators Publishing House
47	Mrs.P.V.S.S.A.Parimala	D-STATCOM control with SRFT method for PQ Improvement in a PV system	2023	Archers & Elevators Publishing House
48	Mrs.K.V.Sowmya	Modeling And Performance Enhancement Of Solar-Wind Hybrid Energy System	2023	Archers & Elevators Publishing House

Table 2.2.3.10 List of Journal Publications

S. No	Roll No	Faculty	Title	Title of the journal	Year of publication
1	19251A0242 19251A0218 19251A0238 19251A0207 19251A0209 19251A0253	Ch. Leela Krishna	Hardware Design and Simulation of Boost Converter Suitable for PV Applications	International Journal for Research in Applied Science and Engineering Technology (https://www.ijraset.com/research-paper/hardware-design-and-simulation-of-boost-converter-suitable)	June 2023

2	20255A020 7 19251A027 0 19251A02 A1 19251A02 B3 19251A027 3	K. Swamalath a	Design of MPPT Controllers for PV Cells using Matlab	International Journal for Research in Applied Science and Engineering Technology	June 2023
3	19251A026 7 19251A027 6 19251A027 4 19251A029 9 19251A028 0	Y. Priyanka	Load Demand Response Controller	International Journal for Research in Applied Science and Engineering Technology	June 2023
4	20255A021 1 19251A026 2 19251A02 A4 19251A028 6 19251A027 7	P. Mamta	A Patient Health Monitoring System based on IOT	International Journal of Electrical Engineering.	June 2023
5	19251A027 5 19251A026 5 19251A02 A2 19251A027 2 19251A02 A6	Dr. T. Surya Prakash	AGRIBOT: Agriculture Robot	International Journal of Electrical Engineering.	June 2023
6	19251A024 1 19251A020 3 19251A022 3 19251A022 9 19251A021 7	K.Pandu Kumar	Battery Storage Management System	International Journal of Electrical Engineering.	June 2023

7	19251A023 1 19251A023 0 19251A025 8 19251A021 3 19251A021 9	B. Abhinethri,	Bluetooth Controlled Robotic Car with Wireless Camera & Metal Detection	International Journal of Electrical Engineering.	June 2023
8	19251A023 5 19251A025 1 19251A025 5 19251A023 2 19251A022 6	G. Sujatha	Design and Experimentatio n of Voltage Control for PV- FED DC-DC Converter	International Journal of Electrical Engineering.	June 2023
9	19251A029 8 19251A028 8 19251A029 6 19251A028 1	V.Suma Deepthi	Dual Axis Solar Tracker with Weather Sensors	International Journal of Electronic and Electrical Engineering	June 2023
10	19251A020 4 20255A020 3 20255A020 5 19251A023 6 19251A025 0	Dr. N. Malla Reddy	Fault Detection in Underground Cables Using A Microcontrolle r	International Journal of Electronic and Electrical Engineering	June 2023
11	19251A021 1 19251A022 7 19251A020 2 20255A020 4 19251A022 5	K. V. Dhanalaksh mi	Fault Diagnosis and Monitoring of Small Wind Turbine Using IOT	International Journal of Electronic and Electrical Engineering	June 2023

12	19251A0224 19251A0212 20255A0202 19251A0205 19251A0210	E.Gouthami	Implementatio n of V2G and G2V Technology in Micro Grid using MATLAB Simulink	International Journal of Electronic and Electrical Engineering	June 2023
13	20255A0201 19251A0252 19251A0239 19251A0220 19251A0240	G. Ujwala	IOT Based Energy Meter with Billing System and Load Prioritization	International Journal of Electronic and Electrical Engineering	June 2023
14	19251A0233 19251A0208 19251A0247 19251A0237 19251A0254	B. Narmada	Simulation of Wind-Solar based Hybrid Power Generation System using MATLAB	International Journal of Electronics Engineering Research.	June 2023
15	19251A0282 19251A0287 19251A02A9 19251A0271 19251A02A8	B.Ravichan dra Rao	Smart Shoe	International Journal of Electronics Engineering Research.	June 2023
16	19251A0289 19251A0269 19251A0297 19251A02B5	Dr. G. Satheesh	Solar Powered Automatic Rain Protection for Field Crops Using Arduino UNO and Moisture Level Monitoring System	International Journal of Electronics Engineering Research.	June 2023

17	19251A022 2 19251A025 7 19251A025 6 19251A026 0 19251A021 6	Dr. P. Ramakrish na Reddy	Solar Wireless Electric Vehicle Charging System	International Journal of Electronics Engineering Research.	June 2023
18	19251A024 4 19251A021 5 19251A025 9 19251A024 8 19251A024 6	P. Sai Niranjan Kumar	Speed Control of Single Phase Induction Motor Using Android Bluetooth Module	International Journal of Electronics Engineering Research.	June 2023
19	20255A020 9 19251A029 1 19251A029 3 19251A026 1 19251A027 9	S. Bhulaksh mi	UPS Battery Monitoring System Using Battery and Supply Changeover	International Journal of Electronics Engineering Research.	June 2023
20	19251A026 7 19251A027 6 19251A027 4 19251A029 9 19251A028 0	Y. Priyanka	Load Demand Response Controller	International Journal of Electrical Engineering and Technology.	June 2023
21	19251A026 4 19251A026 8 19251A02 B0 19251A02 B7 19251A026 6	Dr. G. Annapurna	LPG Gas Leakage Detection and Alert System	International Journal of Electrical Engineering and Technology.	June 2023

22	19251A02 A3 20255A021 2 19251A02 B1 19251A02 A5	K. Priyamvada	MPPT Based Battery Charging Using Solar Energy	International Journal of Electrical Engineering and Technology.	June 2023
23	19251A024 5 19251A024 3 20255A020 6 19251A022 1 19251A020 1	Mr. P. Buchibabu	Simulation and Design of Boost Converter for 1KWV PV System Using P&O and Incremental Conductance Algorithm	International Journal of Electrical Engineering and Technology.	June 2023
24	20255A020 8 19251A029 4 19251A028 3 19251A02 A0 19251A02 B6	V. Badri Rama Krishnan	Simulation and Implementatio n of Speed Control of Single Phase Induction Motor Using Microcontrolle r	International Journal of Electrical Engineering and Technology.	June 2023

Table 2.2.3.11 List of Patents

Sl. No.	Patent Application No.	Status Of Patent (Published / Granted)	Inventor/S Name	Title Of ThePatent	Patent Filed Date (DD/MM/YYYY)
1	20234108836 9 A	Published	Suma Deepthi Veeraganti Dr. Kolli Ramesh Reddy Dr.Nomula Malla Reddy Mr. Ramana Reddy Gurrampati Jillela Manisha Reddy Jetpolu Swathika Bolleboina Sravanthi Gurram Srinidhi Chenagoni Aishwarya	ARDUINO MICROCONTRO LLER BASED SMART ROBOT VACUUM CLEANER	22-12-23

2	20244100125 1 A	Published	Mrs. P. V. S. S. A Parimala Dr. K. V. Dhanalakshmi Mrs. Y. Priyanka Mr. Somu Chaitanya K. Bhavana M. Vaishnavi Ch. Chaitanyasri S. Lakshmi Sai Himamsa G. Divya	METHOD AND SYSTEM FOR PROVIDING DYNAMIC SOLAR POWER BANK CHARGER	07-01-24
3	20234108836 8 A	Published	Gottam Sujatha Dr. Kolli Ramesh Reddy Dr. Ranuva Nageswara Rao Dr.Gootu Annapurna A. Hindu Sri R. Sathvika K. Vinuthna J. Triveni	A NOVEL SMART DEVICE FOR PROVIDING WOMEN SAFETY	22-12-23
4	20234108857 6 A	Published	Dr. Ponnuru Ramakrishna Reddy Mrs. Gouthami Eragmareddy Mr. PrathikanthamBuch ibabu Mr. Vangipuram Badri Ramakrishnan K. Sri Varsha J. Meghana N. Pranitha G. Tejaswi P. Tejasri	METHOD AND SYSTEM FOR PROVIDING SOLAR POWER BASED GRASS CUTTER	24-12-23

5	20244100116 5 A	Published	Mrs. Kanchugantala Priyamvada Mr. Gurrampati Ramana Reddy Mrs. Byreddy Narmada Mrs. Patri V.S.S.A. Parimala Pokuri Mamta Mrs. Kandukuri Swarna Latha V.Beulah Sangeetha Dr B.R.Lakshmi Sreevalli Metta Oggu Sujana	GRID-CONNECTED WIND-PHOTOVOLTAIC COGENERATION USING BACK-TO-BACK VOLTAGE SOURCE CONVERTERS	06-01-24
6	20244100235 6 A	Published	Mrs. Kandukuri Swarna Latha Mrs. BoreddyAbhinethri Mrs. Byreddy Narmada Mrs. Kanchugantala Priyamvada Mrs. Koganti Venkata Soumya Mr. Pathkota Sai Niranjana Kumar Mrs. Anupama Venugopal Mrs. Hima Bala Mrs. P.M.S. Hallika Mr. K. Naresh	DECISION MAKING MODELS AND WORKING MODEL FOR THE PARTICIPANTS IN CLOUD ENERGY STORAGE SYSTEM	12-01-24
7	202341088580 A	Published	Dr. K V Dhana Lakshmi Dr. Himabindu T K V Soumya Dr. J. Pragathi G. Naga Mallika E. Sai Sruthi V. Prathika R. Susmitha G. Bhargavi	Method And System ForEnabling Power Saving Mechanism For Street Lights Using IOT	24-12-2023

8	202441002416 A	Published	Pathkota Sai Niranjan Kumar Dr.Nomula Malla Reddy Ujwala Gajula Dr.Gundlapalli Satheesh SaggurthiBhulakshmi, Chintalapudi Leela Krishna Dr.K. Shyamala DevismithaMahindrakar N. Hiranmai M. Yashwanth Kumar	Development Of AnIntegrated Power Converter For Fast Charging And Efficiency Enhancement In Electric Vehicles	12-01-2024
9	202441014344 A	Published	Gottam Sujatha Mr. Chintalapudi Leela Krishna Dr. Gundlapalli Satheesh P. Mounika Ch. Sai Sreeja M. Vidya N. Snehitha B. Gouthami	IOT-BASED SMART PARKING SYSTEM	26-12-2023
10	202441013036 A	Published	Dr.Gooty Annapurna Mrs. Yerpula Priyanka Mrs. Patri V.S.S.A. Parimala Mr. Chintalapudi Leela Krishna VeeragantiSumadeepthi Gottam Sujatha Dr B. Sushma Mrs. D. Niharika Dr VeeraswamiYaraganimr. S. N. Sarveswara Reddy	A NOVEL THREE PHASE MULTILEVEL INVERTER WITH SINGLE DC LINK FOR INDUCTION MOTOR	27-12-2023

2.2.4 Initiatives related to industry interaction (10)

Industry Institute Interaction strengthens Industry- Academia relationship and reduce gap in teaching –learning through Industrial practices. Many students of our department registered for internships in various companies like Accenture, Sales force, Mind tree, Deloitte etc. ar

In order to make learning more engaging and demonstrating how theoretical concepts are applied in the real world, several guest lectures by Industry experts are conducted.

Also, Industry experts are members of Board of Studies and Department Advisory Committee and are part of curriculum design and development.

To enhance the students learning experience by providing practical exposure to the concepts studied in the classroom, Industrial tours are organized every year. By taking part in industrial tours, the students get an opportunity to witness and understand the real world applicati leads to networking and potential career opportunities.

MoUs enable collaborative research initiatives between the institute and industry. This partnership can lead to advancements in technology, innovation and knowledge creation, benefiting both parties. Institutes can share academic insights and research findings, while ir contributes to a well-rounded education for students.

A. Industry supported laboratories(2):

Presently, the department has four Centers of Excellence i.e., 1. Advanced Power Electronics 2. Electric Vehicles 3. Renewable Energy sources 4. Virtual Reality where some of the students execute their projects. All the centers are supported by reputed industries through M and faculty.

i. The following tables give details of MoUs.

Table 2.2.4.1

2023-24				
S.No	Name of the company/ organisation	List of activities as per MoU	Year of signing	Duration /Dates
1	HIEE's Electrical Design & Detail Engineering Training (https://www.gnits.ac.in/wp-content/uploads/2021/12/hiee.pdf)	Industry Visits and Job Oriented Training	2019	16-11-2019 to 15-11-2024
2	Misplaced Minds	Project collaboration: Development of Electrical lab experiments in Virtual reality.	2021	01-12-2021 to 30-11-2024
3	Pupilfirst Private Limited (https://www.gnits.ac.in/wp-content/uploads/2023/09/AICTE_LiTE_Pupilfirst_MOU.pdf)	To launch Electric Vehicle Development courses to set up NEP-2020 Classroom implementation	2023	16-02-2023 (Perpetual)
4	M/s WindStream Technologies India Pvt. Ltd	Wind and Solar power Generation related Research and Development	2023	17-11-2023 to 16-11-2023
5	E-Ride E-Mobility Solutions	Electric Vehicle Design, Internships and Research activities	2023	14-12-2023 to 13-12-2028

2022-23				
S.No	Name of the company/ organisation	List of activities as per MoU	Year of signing	Duration /Dates

1	HIEE's Electrical Design & Detail Engineering Training (https://www.gnits.ac.in/wp-content/uploads/2021/12/hiee.pdf)	Industry Visits and Job Oriented Training	2019	16-11-2019 to 15-11-2024
2	Haritha TechLogix (https://www.gnits.ac.in/wp-content/uploads/2021/12/haritha-techlogix_compressed_compressed.pdf)	Electrical Vehicle based Trainings and Internships.	2020	09-07-2020 to 08-07-2023
3	Misplaced Minds	Project collaboration: Development of Electrical lab experiments in Virtual reality .	2021	01-12-2021 to 30-11-2024
4	Pupilfirst Private Limited (https://www.gnits.ac.in/wp-content/uploads/2023/09/AICTE_LiTE_Pupilfirst_MOU.pdf)	To launch Electric Vehicle Development courses to set up NEP-2020 Classroom implementation	2023	16-02-2023 (Perpetual)

2021-22

S.No	Name of the company/organisation	List of activities as per MoU	Year of signing	Duration /Dates
1	LUSH Motors	R & D Activities	2019	18-05-2019 To 17-05-2022
2	Haritha TechLogix (https://www.gnits.ac.in/wp-content/uploads/2021/12/haritha-techlogix_compressed_compressed.pdf)	Electrical Vehicle based Trainings and Internships.	2020	09-07-2020 to 08-07-2023
3	HIEE's Electrical Design & Detail Engineering Training (https://www.gnits.ac.in/wp-content/uploads/2021/12/hiee.pdf)	Industry Visits and Job Oriented Training	2019	16-11-2019 to 15-11-2022
4	Misplaced Minds	Project collaboration: Development of Electrical lab experiments in Virtual reality .	2021	01-12-2021 to 30-11-2024

2020-21

S.No	Name of the company/organisation	List of activities as per MoU	Year of signing	Duration /Dates
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1	Lush Motors (https://www.gnits.ac.in/wp-content/uploads/2021/12/lush-motors_mou.pdf)	R & D Activities	2019	18-05-2019 to 17-05-2022
2	Haritha TechLogix (https://www.gnits.ac.in/wp-content/uploads/2021/12/haritha-techlogix_compressed_compressed.pdf)	Electrical Vehicle based Trainings and Internships.	2020	09-07-2020 to 08-07-2023
3	HIEE's Electrical Design & Detail Engineering Training (https://www.gnits.ac.in/wp-content/uploads/2021/12/hiee.pdf)	Industry Visits and Job Oriented Training	2019	16-11-2019 to 15-11-2022

2019-20

S.No	Name of the company/organisation	List of activities as per MoU	Year of signing	Duration /Dates
1	Lush Motors (https://www.gnits.ac.in/wp-content/uploads/2021/12/lush-motors_mou.pdf)	R & D Activities	2019	18-05-2019 to 17-05-2022
2	HIEE's Electrical Design & Detail Engineering Training (https://www.gnits.ac.in/wp-content/uploads/2021/12/hiee.pdf)	Industry Visits and Job Oriented Training	2019	16-11-2019 to 15-11-2022

2018-19

S.No	Name of the company/organisation	List of activities as per MoU	Year of signing	Duration /Dates
1	Lush Motors (https://www.gnits.ac.in/wp-content/uploads/2021/12/lush-motors_mou.pdf)	R & D Activities	2019	18-05-2019 to 17-05-2022

ii. Training Programs on FPGA and Electric Vehicles:

a. FPGA:

Our department has organized One week training program on Field-Programmable Gate Arrays (FPGA), DSP Trainer Kits during 26th July 2021 to 2nd August 2021. The program covered various aspects, including FPGA architecture, programming languages and implementation on session was conducted on three phase multilevel inverter board, three phase matrix converter board, five phase inverter power module, Intelligent power module, 2407 DSP trainer kit. The combination of theoretical lectures, hands-on exercises, and project work ensured a c

One week Training Program on FPGA, DSP Trainer Kit
Department of Electrical and Electronics Engineering
C. N. Srinivasan Institute of Technology & Science (For Women)



ABOUT THE INSTITUTE
 C. N. Srinivasan Institute of Technology & Science, a leading Engineering college for women, was founded by late S. S. Raja Reddy guru in 1967, with an objective of providing excellent learning facilities for women to pursue education in Engineering area over decades. The aim is to promote Technical Education among women to advance and build up a new generation of thinkers, innovators and pioneers in the realm of Science and Technology. INST received UGC, autonomous status for 10 years from 2018 and is affiliate to Anna University Technological University (AUT), Hyderabad. It is approved by All India Council for Technical Education (AICTE), accredited by NAAC 'A' (AICTE).

ABOUT THE ELECTRICAL AND ELECTRONICS DEPARTMENT
 The Department of Electrical & Electronics Engineering was established and modelled to meet keeping in view, the broad objectives of technical education in general and specific needs of Power Engineers in particular. The Department has been accredited by Institution of Engineers in 2009. The Department has qualified & experienced faculty and adequate & well-furnished laboratories to cater to the needs of the students as per the university norms & curriculum. A centre called 'RENEWABLE ENERGY CELL' under the aegis of Ministry of Renewable Energy Sources was started in Aug. 2006. The Department is responsible for Electrical maintenance of the entire institution & also for the running & operation of 100 KV Diesel Power House.

Program Co-ordinators
 Dr. M. Sridha Reddy, Professor and HOD (EE)
 Dr. P. Srinivas Kumar Reddy, Professor and IIT- BAP Co-ordinator

Faculty Program Co-ordinators :
 Mr. Gautham Engampalli, Asst. Prof. (EE)
 Mr. P. Sridharan, Asst. Prof. (EE)
 Dr. J. Vinodh Kumar Reddy (EE)

Participants : IV, Students and Faculty of EEE, (100%)

Program Contents:

- Basic Sessions on FPGA, VHDL Programming, DSP Trainer Kit
- Hands on exercises
- High resolution of Inverter based
- IGBT Motor Converter based
- IGBT Inverter Power Module
- Induction Power Module
- DSP Trainer Kit

PROGRAM DATES:
 29th July 2023 to August 3rd 2023
Timing: 11:00 AM to 1:00 PM

Mode of Session: Offline and Online
 Based on convenience for participants and before Live Session
 The following Dates

RELEVANT PERSONS :
 Mr. Yashwanth S. S. V. Srinivas Reddy
 Mr. Nandu Gopal, BAP Co-ordinator
 EE Lab In-charge, Chennai

Fig. 2.2.4.1 FPGA Training Program Brochure



Fig. 2.2.4.2 FPGA Training Program

b. Electric Vehicle Technology

A six day course on 'Electric Vehicle Technology' was conducted during 27/3/23-1/4/23 for B.Tech and M.Tech students of our department. The training begins with an overview of electric vehicles, including their types, components and benefits compared to traditional vehicle. Participants engaged in hands-on activities to explore the components of electric vehicles, including the electric motor, battery pack, power electronics and onboard control systems. Participants learnt about battery technology fundamentals, including battery chemistry, capacity



Fig. 2.2.4.2 Electric Vehicle Training Program

B. Industry involvement in the design of program curriculum(3):

The curriculum is developed to make sure that it meets Industrial and Societal needs. Industry experts are invited as member of Board of Studies and Department Advisory Committee to take part in the design of curriculum along with academicians from premier Institutes for up gradation of department R & D activities.

List of BoS members:

S.No	Name	Designation	Status
1.	Dr. N. Malla Reddy	Professor, Dept. of EEE, GNITS, Hyd.	BoS - Chairman
2.	Dr. N. Yadaiah	Professor, Dept. of EEE, College of Engineering, JNTUH, Hyd.	External Member (University Representative)
3.	Dr. S. Srinivas Rao	Professor, Dept. of EEE, NIT, Warangal.	External Member (Subject Expert)
4.	Dr. Alivelu Manga P	Assoc. Prof. & HOD, Dept. of EEE, BITS, Hyd.	External Member (Subject Expert)
5.	Mr. B Koti Reddy	Dy. Manager, GOUI, Heavy Water Plant, Manuguru.	External Member (Industry Representative)

6.	Dr. M. Indira Rani	Professor, Dept.of Mechanical Engineering, CoE, JNTUH, Hyd.	External Member (Subject Expert)
7.	Mr.M.V.Ramana Reddy	Assoc. Professor & HOD- Dept. of Mechanical Engineering, GNITS, Hyd	Internal Member
8.	Dr.K.Ramesh Reddy	Professor & Principal, GNITS, Hyd	Honorary Member
9.	Dr.G.Annapurna,	Professor, Dept. of EEE, GNITS, Hyd	Member Convener
10.	Dr. P.R.K. Reddy	Professor& HOD, Dept. of EEE, GNITS, Hyd	Internal Member
11.	Dr.R.Nageswara Rao	Professor, Dept. of EEE, GNITS, Hyd	Internal Member
12	Mr. G.Ramana Reddy	Assoc. Professor, Dept. of EEE, GNITS, Hyd	Internal Member
13	Mrs. M.Sandhya Priya	Asst. Engineer, TSGENCO, Hyd.	External Member (Alumnae Representative)

List of DAC Members:

Sl. No.	Name & Designation	Status
1.	Dr. P.Ramakrishna Reddy, HOD-EEE, GNITS	Chairman
2.	Dr.M.Surya Kalavathy, Professor, JNTUH	Member
3.	Dr.G.Annapurna, Professor, GNITS	Member Convener
4.	Dr. N. Malla Reddy, Professor, GNITS	Member

5.	Dr. K.S. Madhavan, Sr. DGM, BHEL (R&D)	Member
6.	Sri. V.V. H. Srinivasa Murthy, Director, Synergy InfraConsulting Co.	Member
7.	Dr. B. Suresh Kumar, Assoc. Prof., CBIT	Member
8.	Smt. P.Neeraja, Govt. School Teacher	Member
9.	Ms. Sonali Salins Alumnae, GNITS	Member
10.	Ms. Shaik Hashmi Saffina, Alumnae, GNITS	Member
11.	Dr.R.Nageswara Rao, Professor, GNITS	Member
12.	Sri. G. Gopinath, Professor, GNITS	Member
13.	Mr.G.Ramana Reddy Assoc. Professor,GNITS	Member

C. Industry involvement in partial delivery of courses(3):

In order to bridge the gap between the classroom teaching and actual industry practices, Guest lectures and Industry expert lectures are arranged for our students.

In addition, Industrial visits are also arranged to provide students with first hand exposure to real world work environment, allowing them to witness the application of theoretical knowledge in practical settings.

To help them to feel the experience beyond classroom teaching, Value added courses are arranged.

The following tables give the details of the Guest lectures, Industrial visits and Value added courses.

Table 2.2.4.2 : Guest Lectures

SUMMARY SHEET

Sl. No.	Academic Year	No. of Guest Lectures
1	2020-2021	6
2	2021-2022	7
3	2022-2023	5
4	2023-2024	8

A.Y.2023-24

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS

1	IEEE Membership Benefits and resources	IEEE Alumnae: B. Rajeshwari Company: Deloitte Role: RFA ssociate QC Engineer ,Vaishnavi Ginkala Company: Capgemini Role: Analyst	10-08-2023	33
2	Energy Audit	A V R N B Manikyala Rao, Certified Auditor EA 1210	06-09-2023	57(S) 14(F)
3	AI and Human Intelligence	Mr. Sai Kumar Tara, Chairman, Student Activities Committee, IEEE Hyderabad Section	15-09-2023	71
4	Latest trends in battery energy storage systems	Mr. B. Koti Reddy, Scientific Officer, Department of Atomic Energy, Heavy Water Plant(Manuguru)	25-9-2023	68(S)+6(F)
5	Trends driven by Digital Superpowers	Mr. P. Bala Prasad, Past-Execom member, IEEE Hyderabad Section, Chief Innovation Officer and Global Head - Technology Advisory Services, Technology, Software and Services Business Group	19-10-2023	84(S)+4(F)
6	Condition motoring using machine learning strategies	Dr. Amar Kumar Verma, Post Doctoral Fellow (2), Centre for Automotive research and Tribology (CART), IIT Delhi	01-11-2023	31
7	Evolution and growth of the e-mobility Industry	Mr.A.Devender Reddy (CEO, E-Ride)	14-12-2023	99 (S)
8	Wide bandgap power electronics and benefits of electrification in heavy duty vehicles	Brij N. Singh, Ph.D, Region 4 Manager External Relationships, Emerging tech in John Deere & Company, USA	20-12-2023	134(S)+5(F)

A.Y. 2022-23

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Power Electronics Converters- Applications in Renewable Energy Sources	Mr. B. Koti Reddy, Scientific Officer (Electrical), Heavy Water Plant, Manuguru	12-10-2022	68(S) 8(F)

2	A Plug and Play Operational Approach for Implementation of an Autonomous-Micro-Grid System	Dr. Sanjib Kumar Panda, Chair, Region 10 and distinguished lecturer in IEEE-PELS chapter and also Associate Professor and Director of the Power & Energy Research Area, Department of Electrical and Computer Engineering, National University of Singapore, Singapore	12-11-2022	214(S)+8(F)
3	Opportunities on Being IEEE member and present industry requirements	Ms. Ramya Narendra, YP Chair, IEEE HYD Section 2022, Support Eng. II, Amazon	03-12-2022	108
4	Electrical vehicles for e mobility- The Future- Battery-Fuel cell/powerd	Dr. PV Rajgopal, B.Tech (Elec.), PGDM (Mrkt), Ph.D (IIT) Senior Member- IEEE & General Manager (Retd), BHEL/ Corporate R&D/ Hyderabad & Past Chair (2018 – 2020), PES/IAS/PELS- Jt. Chapter, IEEE-Hyderabad section	16-06-2023	97(S)+7(F)
5	The key to India's Energy future	Mr.Pavan Kumar Pillalamarri, Market Intelligence leader, GE Power, South Asia	18-11-2022	277 (S)

A.Y.2021-22

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Webinar on gate way-an ultimate guideline to crack gate	Ms.PrathyushaSrisilla,GATE 2020 Score:798 &EC Rank:161 Ms.AmulyaPendota,GATE 2020 score:607 & EC Rank:1135 & IN Rank:1274	10-7-2021	21
2	Webinar on digital wellness	RijulArora,Digital wellness advocate and speaker,3 times TEDX speaker RitomGupta,full stack web developer RainarAngelo,Digital wellness advocate	26-09-2021	7
3	Storage Batteries for EV: Practical Terms, types, Characteristics and Design	Mr. B. Koti Reddy, Scientific Officer, Dept. of Atomic Energy, Heavy water plant, Manuguru	20-09-2021	20
4	Solar Yatra followed by Solar Bus Tour	Prof. Chetan Singh Solanki, Professor, IIT Bombay	24-02-2022	231

5	Star program- ENKIDLING Career	Mr. AV Narayana Rao, Journalist, Andhra Jyothi, All India News Reader	16-03-2022	46
6	Owasp- A Two day workshop	Ms. Sujatha Yakasiri, Founder of W3 – CS, Sr. Computer Scientist- Information security	20-06-2022 to 21-06-2022	15
7	Electrical Safety in LV Electrical	Sri. P. Narasinga Rao, Deputy Chief Electrical Inspector (Retired)	06-05-2022	176

AY :2020 - 21

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Basic Design concepts of Substation and Switchyard	Mr.T. Vishnu Charan, M Tech(Ph.d), DGM-Engineering, Electrical HOD for Os& Gas Division, TATA Projects Ltd., Mumbai	06-07-2020	91 (S) 5(F)
2	Power Converters: Control configurations and Applications	Dr.G.Bhuvaneswari, Prof, EEE, IIT Delhi	04-08-2020	136 (S) 12(F)
3	Research Aspects of Electrical Vehicle Charging station and its effect on Distribution Systems	Dr.Chandrashekhar Yammani, Asst. Prof. EEE, NIT Warangal	28-09-2020	298 (S) 8 (F)
4	IEEE Day celebrations- Coding Quiz	Dr.N.Malla Reddy, HoD, EEE Dept.	06-10-2020	32
5	Electrical Power System to EEE students	Mr. B. Koti Reddy, Scientific Officer (Electrical), Heavy Water Plant, Manuguru	28-12-2020	128 (S) 10 (F)
6	Latest Research Developments in Electric Vehicles and the role of Power Electronics & Electric Drives	Mr.Prashanth Kumar, CTO, HarithaTechlogix Pvt. Ltd., Bangalore	05-02-2021	17

Table 2.2.4.3 : Industrial Visits

G. SRINIVASARAO INSTITUTE OF TECHNOLOGY & SCIENCE, SRINIVASAPURAM
AUTONOMOUS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

List of Industrial Visits (Year wise)

Academic Year 2020-21: 01

S.No.	Year & Sem	Place	No. Students Attended	Outcomes
1	02 & Tech-1 Sem-II	1102, Lakshmy, Mahabub	20	Practical Exposure to Lab Station

Academic Year 2022-23:02

S.No.	Year & Sem	Place	No. Students Attended	Outcomes
1	04 Sem & 1 Sem	Srisailem JPP (Sardar Sarovar Dam), Kutch, Gandhinagar	71	Practical Exposure to Hydro power generating Station
2	04 Sem & 2 Sem	Srisailem JPP (Sardar Sarovar Dam), Kutch, Gandhinagar	71	Practical Exposure to Hydro power generating Station

Academic Year 2023-24: 01

S.No.	Year & Sem	Place	No. Students Attended	Outcomes
1	02 & Tech-1 Sem	400W, Lakshmy, Mahabub	20	Practical Exposure to Lab Station

Industrial Visit In-Charge: _____
Head of the Department: _____

Quarantined with ACE System



Fig. 2.2.4.1 : Visit to Srisailem Hydro Power Plant

Table 2.2.4.4 : Value added Courses:

Name of the course/programme	Course/programme Code (if any)	Mode of the Course- offered by the HEI or Online (Specify the platform like MOOCS, SWAYAM, etc.)	Year of offering /Year of enrolment	Contact hours of course	Number of students enrolled in the year	Number of Students completin g the course in the year
Value Added Course on Electric Vehicle Technology	GNITS/EEE/VAC/2022-23/01	offline	2022-23	50	167	167
Design of Digital Circuits using Verilog HDL	GNITS/EEE/VAC/2021-22/01	offline	2021-22	50	15	15
Value added course on Electric Vehicle Technology	GNITS/EEE/VAC/2021-22/02	offline	2021-22	50	57	56
A Value Added Course on Arduino Development Board for Basic Hardware Applications	GNITS/EEE/VAC/2019-20/01	offline	2019-20	50	56	56

D. Impact Analysis of industry institute interaction and action taken there of(2):

The department has established partnerships with various industries through Memoranda of Understanding (MoUs) to enhance the quality of education and provide valuable career opportunities for our students. These collaborations have also facilitated organization of industri

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

A. Industrial training/tours for students:

Industrial training is instrumental in preparing individuals for the challenges of the workforce, equipping them with the skills, knowledge and experience needed to succeed in their chosen careers. It serves as a bridge between education and employment, facilitating a smooth transition into the workforce. Engineering, Industrial tours, Power plant visits and substation visits are arranged.

The following table shows the details of industrial visits.

Table 2.2.5.1

S. NIVASANAM INSTITUTE OF TECHNOLOGY & LEVEL FOR WOMEN
AUTONOMOUS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

List of Industrial Visits (Year wise)

Academic Year 2019-20 | 21

S.No.	Year & Sem	Place	No. Students Attended	Objective
1	19 E Tech 1 Sem	11th, Substation, Warangal	24	Practical Exposure to Sub-Station

Academic Year 2021-22 | 02

S.No.	Year & Sem	Place	No. Students Attended	Objective
1	21 E Tech 1 Sem	Srisailem JLF Sub-Station, Warangal, District Warangal	24	Practical Exposure to Sub-Station generating Station
2	21 E Tech 2 Sem	Srisailem JLF Sub-Station, Warangal, District Warangal	22	Practical Exposure to Sub-Station generating Station

Academic Year 2023-24 | 01

S.No.	Year & Sem	Place	No. Students Attended	Objective
1	23 E Tech 1 Sem	40th, Sub-Station, Warangal	20	Practical Exposure to Sub-Station

Industrial Tour In-Charge Head of the Department

Scanned with ACE Scanner



Fig. 2.2.5.1 Visit to Srisailem Hydro Power Plant

B. Industrial/ internship/summer training of more than two weeks and post training assessment.

Industry internships and summer training programs play a vital role in shaping the professional development of students, providing them with practical experience and skills. Internships and summer training programs allow students to apply theoretical knowledge gained in the

The practical experience gained enhances their understanding of concepts and their relevance in the workplace. Internships provide students with exposure to the professional work environment, corporate culture and industry dynamics. Internships enable students to build a pr are encouraged to take up projects / summer training outside the institute during inter semester break or summer vacation.

The following table gives the list of students who have completed internships.

Table 2.2.5.2: List of Internships attended by students

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)

Approved by NBA & AICTE, Malappuram, Hyderabad
Department of Electrical & Electronics Engineering

Summary: Internships attended by students (25-26)

S.No	Company	Total students attended
1.	Amul Dairy Pvt Ltd	1
2.	Adelco	1
3.	Star Gy 3D	2
4.	Aplic Computer Sales Pvt Ltd	1
5.	Indi Home	1
6.	DR Egoz Marketing	1
7.	SRM	1
8.	Flipkart	1
9.	Adani Limited	1
10.	SRM Skills Hub	4
Total		14

 Director
 HOD-EEE



SARAVANAMA INSTITUTE OF TECHNOLOGY & SCIENCE (the Parent)

AUTONOMOUS
Wazirpur, Hyderabad 500082

2024-2025 EXAMINATIONS

SERIAL	CLASS	ROLL NUMBER	NAME	COMPANY NAME	INTERVIEW DATE	FABRICATION MONTH
1	IV BEE-4	20211A0001	Pravali Venkata Subrahmanya	Auto Tech Pvt.Ltd	30/03/24 to 31/03/24	11,2024
2	IV BEE-4	20211A0002	S.Sowmi	anubandha	12/03/24 to 24/03/24	10,2024
3	IV BEE-4	20211A0003	Praveen Chandra Babu	anubandha	12/03/24 to 19/03/24	10,2024
4	IV BEE-4	20211A0004	Gayatri Anand	Star To You	10th june june 2024	10,2024
5	IV BEE-4	20211A0005	Prasanna Anand	Star To You	8th june june 2024	10,2024
6	IV BEE-4	20211A0006	Gokulapriya Sridha Sridhara	Apni Computer India Pvt.Ltd	11.09.2024 to 26.09.2024	20,2024
7	IV BEE-4	20211A0007	Arjun Prasad Subrahmanya	anubandha	08/03/24 to 08/03/24	10,2024 (Annual grade test)
8	IV BEE-4	20211A0008	Shashank Ashwini	anubandha	30/03/24 to 30/03/24	10,2024
9	IV BEE-4	20211A0009	Pradeep Anand Sai	OR Digital Marketing	29/03/24 to 29/03/24	10,2024
10	IV BEE-4	20211A0010	K. Anandh	ORC	11/03/2024 to 11/03/2024	10,2024
11	IV BEE-4	20211A0011	Prasanna Anand	Top-Kart	07/03/24 to 07/03/24	10,2024
12	IV BEE-4	20211A0012	S.S. Lakshmi Suresh	anubandha	12/03/24 to 19/03/24	10,2024

Print Date

WARRA	20240304	Venue Hendri	Game Number	000014 to 000024	1000
WARRA	20240304	K. Hines	0802	000014 to 000024	1000
WARRA	20240304	Venue Hendri	0803	000014 to 000024	1000
WARRA	20240304	Austin Stokely	0804	000014 to 000024	1000
WARRA	20240304	Shane Thompson	0805	000014 to 000024	1000
WARRA	20240304	C. L. Latta	0806	000014 to 000024	1000
WARRA	20240304	Doug Pridmore	0807	000014 to 000024	1000
WARRA	20240304	Steve C.	0808	000014 to 000024	1000
WARRA	20240304	Kenneth Jensen	0809	000014 to 000024	1000








G. SARAVANASIMA INSTITUTE OF TECHNOLOGY & SCIENCE
 [AUTONOMOUS]

Accredited by NBA & MAAC, Statutes, Hyderabad
 Department of Electrical & Electronics Engineering

Summary: Internships attended by students (25-25)

S.No	Company	No. of students attached
1	Play energy services	1
2	Power and Energy	1
3	SC technologies	1
4	LTI Software	1
5	State street	1
6	Amara	1
7	BBF technologies PVT LTD	1
8	Edara technologies limited	1
9	Indraprastha private limited	1
10	Capgemini	1
11	Automa Limited	1
12	Edara	1
13	Edara Technologies	1
14	World wide Technologies	1
15	Edara pvt	1
16	EV India	1
17	Hill energy Tech solutions PVT LTD	1
18	Qualcomm	1
19	W&A Tech Corporation	1
Total		25


 Coordinator


 HOD

 **G. Saravanasima Institute of Technology & Science**

SRMISTIAN INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
AUTONOMOUS
Madurai, Madurai 625 020

2022-23 EEI/EEI/EEI/EEI

SNO	CLASS	ROLL NUMBER	NAME	COMPANY NAME	INTERNSHIP DURATION	MODE OF WORK	YEAR	PAYMENT PER MONTH
1	IV EEE A	1921A021	A.Madhya	ITSI (ITSI) services	2-6-2023 to 28-6-2023	office	ICCR system, del	10000
2	IV EEE A	1921A022	Chandrasekhar	Cost and Young	6-2-2023 to 6-6-2023	office	Service 10, Madurai	20000
3	IV EEE A	1921A023	R. Anandhan	EE technologies	2-6-2023 to 28-6-2023	office	Software del	0
4	IV EEE A	1921A024	R. Siva	Madurai	21-2-2023 to 30-6-2023	office	Software	10000
5	IV EEE A	1921A025	Chandrasekhar	Power Energy Services	1-4-2023 to 27-10-2023	Office	ICCR system, del	10000
6	IV EEE A	1921A026	A. Manoj	Madurai	9-1-2023 to 17-3-2023	Office	ICCR system	10000
7	IV EEE A	1921A027	G. Deepa Priya	Anandhan	31-2-2023 to 27-6-2023	Office	Madurai	10000
8	IV EEE A	1921A028	A. Manoj	Madurai	21-2-2023 to 15-3-2023	Office	Madurai	10000
9	IV EEE A	1921A029	K. Manoj	ITSI technologies PVT. LTD.	6-1-2023 to 17-6-2023	Office	Madurai	10000
10	IV EEE A	1921A030	A. Manoj	ITSI technologies PVT. LTD.	19-1-2023 to 16-6-2023	Office	Madurai	0
11	IV EEE A	1921A031	Ramesh Kumar	Software services	4-1-2023 to 17-6-2023	Office	Madurai	10000
12	IV EEE A	1921A032	P. Anandhan	Madurai	21-2-2023 to 15-3-2023	Office	Madurai	10000
13	IV EEE A	1921A033	M. Suresh	Madurai	14-3-2023 to 17-3-2023	Office	ICCR	10000
14	IV EEE A	1921A034	T. Suresh	Madurai	13-3-2023 to 21-7-2023	Office	Madurai	10000
15	IV EEE B	1921A035	Shanmuga	Madurai	28-2-2023 to 28-6-2023	Office	Madurai	20000
16	IV EEE B	1921A036	Shanmuga	Madurai	6-2-2023 to 24-6-2023	Office	Madurai	20000
17	IV EEE B	1921A037	Shanmuga	Madurai	2-6-2023 to 30-6-2023	Office	Madurai	11000
18	IV EEE B	1921A038	Shanmuga	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
19	IV EEE B	1921A039	Shanmuga	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
20	IV EEE B	1921A040	Shanmuga	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
21	IV EEE B	1921A041	Shanmuga	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
22	IV EEE B	1921A042	Shanmuga	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000

SNO	CLASS	ROLL NUMBER	NAME	COMPANY NAME	INTERNSHIP DURATION	MODE OF WORK	YEAR	PAYMENT PER MONTH
1	IV EEE B	1921A043	M. Suresh	Madurai	6-1-2023 to 17-6-2023	Office	Madurai	20000
2	IV EEE B	1921A044	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	11000
3	IV EEE B	1921A045	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
4	IV EEE B	1921A046	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
5	IV EEE B	1921A047	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
6	IV EEE B	1921A048	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
7	IV EEE B	1921A049	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
8	IV EEE B	1921A050	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
9	IV EEE B	1921A051	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
10	IV EEE B	1921A052	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
11	IV EEE B	1921A053	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
12	IV EEE B	1921A054	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
13	IV EEE B	1921A055	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
14	IV EEE B	1921A056	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
15	IV EEE B	1921A057	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
16	IV EEE B	1921A058	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
17	IV EEE B	1921A059	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000
18	IV EEE B	1921A060	M. Suresh	Madurai	1-6-2023 to 31-6-2023	Office	Madurai	10000

Faculty Co-Ordinator

M. Manoj
(1921-03)

Dr. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)

Approved by NBA & NAAC, Mysore, Hyderabad
Department of Electrical & Electronics Engineering
(Seminary / Internship attached by students - 21-22)

S.No	Company	Number of students attached
1	ADITHYAN	1
2	ADITHYAN	1
3	ADITHYAN	1
4	ADITHYAN	1
5	ADITHYAN	1
6	ADITHYAN	1
7	ADITHYAN	1
8	ADITHYAN	1
9	ADITHYAN	1
10	ADITHYAN	1
11	ADITHYAN	1
12	ADITHYAN	1
13	ADITHYAN	1
14	ADITHYAN	1
15	ADITHYAN	1
16	ADITHYAN	1
17	ADITHYAN	1
18	ADITHYAN	1
19	ADITHYAN	1
20	ADITHYAN	1
Total		20






Administrative Report
Administrative & Accounting

Summary - FY 2023-2024

Line	Code	Account	Department	Category	Amount	Balance
1	1000	1000	1000	1000	1000	1000
2	1000	1000	1000	1000	1000	1000
3	1000	1000	1000	1000	1000	1000
4	1000	1000	1000	1000	1000	1000
5	1000	1000	1000	1000	1000	1000
6	1000	1000	1000	1000	1000	1000
7	1000	1000	1000	1000	1000	1000
8	1000	1000	1000	1000	1000	1000
9	1000	1000	1000	1000	1000	1000
10	1000	1000	1000	1000	1000	1000
11	1000	1000	1000	1000	1000	1000
12	1000	1000	1000	1000	1000	1000
13	1000	1000	1000	1000	1000	1000
14	1000	1000	1000	1000	1000	1000
15	1000	1000	1000	1000	1000	1000
16	1000	1000	1000	1000	1000	1000
17	1000	1000	1000	1000	1000	1000
18	1000	1000	1000	1000	1000	1000
19	1000	1000	1000	1000	1000	1000
20	1000	1000	1000	1000	1000	1000
21	1000	1000	1000	1000	1000	1000
22	1000	1000	1000	1000	1000	1000
23	1000	1000	1000	1000	1000	1000
24	1000	1000	1000	1000	1000	1000
25	1000	1000	1000	1000	1000	1000
26	1000	1000	1000	1000	1000	1000
27	1000	1000	1000	1000	1000	1000
28	1000	1000	1000	1000	1000	1000
29	1000	1000	1000	1000	1000	1000
30	1000	1000	1000	1000	1000	1000
31	1000	1000	1000	1000	1000	1000
32	1000	1000	1000	1000	1000	1000
33	1000	1000	1000	1000	1000	1000
34	1000	1000	1000	1000	1000	1000
35	1000	1000	1000	1000	1000	1000
36	1000	1000	1000	1000	1000	1000
37	1000	1000	1000	1000	1000	1000
38	1000	1000	1000	1000	1000	1000
39	1000	1000	1000	1000	1000	1000
40	1000	1000	1000	1000	1000	1000
41	1000	1000	1000	1000	1000	1000
42	1000	1000	1000	1000	1000	1000
43	1000	1000	1000	1000	1000	1000
44	1000	1000	1000	1000	1000	1000
45	1000	1000	1000	1000	1000	1000
46	1000	1000	1000	1000	1000	1000
47	1000	1000	1000	1000	1000	1000
48	1000	1000	1000	1000	1000	1000
49	1000	1000	1000	1000	1000	1000
50	1000	1000	1000	1000	1000	1000

Print Report

2023-2024 Season

Player	Team	Position	Games Played	Points	Rebounds	Assists
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

Total

C. Schmidt *N. Miller*

Print Score

**C. SARAYANANDA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)**

Accredited by NBA & NAAC, Bangalore, Hyderabad
Department of Electrical & Electronic Engineering
Semester : Interdepartmental training attended by students (2023-2024)

S.No	Company / IITs	No. of students attended
1	Qualcomm	1
2	Qualcomm	1
3	Qualcomm	1
4	Qualcomm	1
5	Qualcomm	1
6	Qualcomm	1
7	Qualcomm	1
8	Qualcomm	1
9	Qualcomm	1
10	Qualcomm	1
11	Qualcomm	1
12	Qualcomm	1
13	Qualcomm	1
14	Qualcomm	1
15	Qualcomm	1
16	Qualcomm	1
17	Qualcomm	1
18	Qualcomm	1
19	Qualcomm	1
20	Qualcomm	1
21	Qualcomm	1
22	Qualcomm	1
23	Qualcomm	1
24	Qualcomm	1
25	Qualcomm	1
26	Qualcomm	1
27	Qualcomm	1
28	Qualcomm	1
29	Qualcomm	1
30	Qualcomm	1
31	Qualcomm	1
32	Qualcomm	1
33	Qualcomm	1
34	Qualcomm	1
35	Qualcomm	1
36	Qualcomm	1
37	Qualcomm	1
38	Qualcomm	1
39	Qualcomm	1
40	Qualcomm	1
41	Qualcomm	1
42	Qualcomm	1
43	Qualcomm	1
44	Qualcomm	1
45	Qualcomm	1
46	Qualcomm	1
47	Qualcomm	1
48	Qualcomm	1
49	Qualcomm	1
50	Qualcomm	1
51	Qualcomm	1
52	Qualcomm	1
53	Qualcomm	1
54	Qualcomm	1
55	Qualcomm	1
56	Qualcomm	1
57	Qualcomm	1
58	Qualcomm	1
59	Qualcomm	1
60	Qualcomm	1
61	Qualcomm	1
62	Qualcomm	1
63	Qualcomm	1
64	Qualcomm	1
65	Qualcomm	1
66	Qualcomm	1
67	Qualcomm	1
68	Qualcomm	1
69	Qualcomm	1
70	Qualcomm	1
71	Qualcomm	1
72	Qualcomm	1
73	Qualcomm	1
74	Qualcomm	1
75	Qualcomm	1
76	Qualcomm	1
77	Qualcomm	1
78	Qualcomm	1
79	Qualcomm	1
80	Qualcomm	1
81	Qualcomm	1
82	Qualcomm	1
83	Qualcomm	1
84	Qualcomm	1
85	Qualcomm	1
86	Qualcomm	1
87	Qualcomm	1
88	Qualcomm	1
89	Qualcomm	1
90	Qualcomm	1
91	Qualcomm	1
92	Qualcomm	1
93	Qualcomm	1
94	Qualcomm	1
95	Qualcomm	1
96	Qualcomm	1
97	Qualcomm	1
98	Qualcomm	1
99	Qualcomm	1
100	Qualcomm	1
Total		41









2023		2024				
New Student Enrollment - April to Y 2023		New 2024				
Enrollment classes ending amount by Student						
ID#	Name of the Student	Class	Class	Year	Term	Amount
1	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
2	Bartholomew	FF 000	Public	Public	2023-2024	0.00
3	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
4	Bartholomew	FF 000	Public	Public	2023-2024	0.00
5	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
6	Bartholomew	FF 000	Public	Public	2023-2024	0.00
7	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
8	Bartholomew	FF 000	Public	Public	2023-2024	0.00
9	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
10	Bartholomew	FF 000	Public	Public	2023-2024	0.00
11	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
12	Bartholomew	FF 000	Public	Public	2023-2024	0.00
13	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
14	Bartholomew	FF 000	Public	Public	2023-2024	0.00
15	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
16	Bartholomew	FF 000	Public	Public	2023-2024	0.00
17	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
18	Bartholomew	FF 000	Public	Public	2023-2024	0.00
19	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
20	Bartholomew	FF 000	Public	Public	2023-2024	0.00
21	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
22	Bartholomew	FF 000	Public	Public	2023-2024	0.00
23	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
24	Bartholomew	FF 000	Public	Public	2023-2024	0.00
25	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
26	Bartholomew	FF 000	Public	Public	2023-2024	0.00
27	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
28	Bartholomew	FF 000	Public	Public	2023-2024	0.00
29	Bartholomew	FF 000	Continuation of Public	Public	2023-2024	0.00
30	Bartholomew	FF 000	Public	Public	2023-2024	0.00

Print Report

13	Chickasha	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
14	Greenwood	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
15	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
16	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
17	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
18	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
19	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
20	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
21	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
22	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
23	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
24	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
25	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
26	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
27	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
28	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
29	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed
30	Lawton	14 EEE	14 EEE	Office	03/04/2023 to 03/04/2023	Completed

Print

S. No	Academic Year	Total No. of Internships	Total No. of Internships Converted to Jobs
1.	2022- 2023	38	19
2.	2021-2022	50	30
3.	2020-2021	41	5

C. Impact Analysis of Industrial Training:

The initiatives related to industry internship/summer training have positively impacted the learning culture of students. Students have an opportunity to interact with the industry professionals. Hands-on experience allowed students to apply theoretical knowledge in practical se

Below is a table providing details regarding students whose internship has been converted into employment.

Table 2.2.5.3: List of Internships converted to Jobs

S. No	Academic Year	Total No. of Internships	Total No. of Internships Converted to Jobs
1.	2022- 2023	38	19
2.	2021-2022	50	30
3.	2020-2021	41	5

D. Student Feedback on Initiatives (3):

FEEDBACK ON INTERNSHIPS (2019-23 BATCH)

The following is the feedback received from the students who have undergone Internship at several reputed companies during the academic year 2022-23.

S.No	Name	Roll Number	Company /Industrial name	Internship Duration	How do you think this internship will help you achieve your career goals?	Is there any specific area or skill you're looking to develop during this internship	Why are you interested in pursuing an internship in this particular industry or field
1	Agrahar Akshitha	19251A0201	Freyr energy services	3-04-2023 to 30-9-2023	Improving skills for Coding	SQL Coding, c+	To place reputed companies
2	Bhore Neha	19251A0214	Mindtree	21-2-2023 to 10-6-2023	During my internship, I learned many things regarding with skills. This thought me a proper way to understand coding language in a professional way.	I want to develop my skills with learning Java.	Because would learn many things during this internship and training.
3	Shriya Dingari	19251A0224	Statestreet	9-1-2023 to 3-7-2023	By helping with skills	SQL, Java	For career opportunities
4	Nikhitha Guggilla	19251A0231	Mindtree	21-2-2023 to 3-5-2023	By gaining new skills it will help us to achieve the goals	Coding	To gain knowledge
5	Manaswini Kyama	19251A0232	LTIMindtree	9-1-2023 to 17-6-2023	It helps me in my higher studies	Yes, C++	To enhance my skills
6	Ramya Nainolla	19251A0240	Insoftpvt ltd	9-1-2023 to 17-06-2023	It prepared me mentally and helped me get better	Technical knowledge	To get knowledge

7	Shreekruthi Nukala	19251A0241	Mindtree	21-2-2023 to 3-5-2023	By giving good experience		VLSI	VLSI
8	SHAIK FAREEDA	19251A0252	cognizant	7-3-2023 to 7-7-2023	Yes it helped to achieve our goals		Good experience	To settled in good job
9	Tejavath Swathi Sri	19251A0254	Jakson limited	1-2-2023 to 31-7-2023	Helps in improving certain skills for career growth		Interactive skills and relationship management	Learn more which helps in building my career
10	Gandla Prasanna	19251A0273	Freyr Energy Services	3-04-2023 to 30-06-2023	By achieving real time experience and getting a field job in this area		SQL, Dot net	I am very passionate about designing
11	Majjigapu Keerthi	19251A0287	LTIMindtree	21-02-2023 to 3-05-2023	To learn skills required for job		Interesting to learn Python, DBMS	Interest in IT industry
12	M. Indhu sri	19251A0290	Freyr energy	3-04-2023 to 21-09-2023	Good		Good	I am interested in this field
13	Mythri neeli	19251A0295	LTIMindtree	23-02-2023 to 3-05-2023	To achieve the goals by the program		Programming coding important	Good
14	N Swetha	19251A0296	LTIMindtree	01-03-2023 to 03-05-2023	As i need an platform to showcase my talent and achieve my goals through this		Yes to develop and learn new technologies	Because it suits my interest and my profile and i really want to learn new
15	Akhila	19251A02A4	Qualizeal	20-04-2023 to 20-09-2023	It will help in gain knowledge, Experience and practicing the work		Reaserch and development, Adaptability, Communication	I am interested in testing
16	Sofia tahreem	19251A02B0	LTIMindtree	1-03-2023 to 3-05-2023	It helped me develop my skills		I learnt a new language i.ec#	Because it will give you an experience
17	S.Aakanksha	19251A02B1	DXC	8/21/2023 To 12/15/2023	It helps with the knowledge on computers which is helpful in future		Programminglike java, python	It is continuously growing and introducing new trends

18	Thadishetti Shivani	19251A02B4	WabTech Corporation	01-09-2023 To 6/30/2023	It is different technology and it is different from the company I work and the internship	Programming language	As it is first time to do, Im excited to join the internship and it is related to software side.
19	Juhitha	19251A02B7	Qualizeal	20-4-2023 to 20-09-2023	To know it skills	To develop my coding in SQL	Good experience
20	Gayathri Guppa	20255A0211	Wabtec corporation	9-1-2023 to 30-6-2023	Got industrial exposure	More technical knowledge	To get more technical knowledge and corporate exposure

Impact Analysis of Internship:

1. Student's technical skills have improved
2. Communication skills of the students have improved
3. Gained valuable work experience
4. Students will explore the internship outcomes in terms of innovative projects.
5. Network with professionals in the respective field.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)

Define the Program specific outcomes

PSO1	Graduates will be able to analyze, develop and demonstrate Projects, both Software and Hardware in relevant topics of Electrical and Electronics Engineering
PSO2	Graduates will be able to identify and solve problems in different core areas of Electrical and Electronics Engineering to meet the industry requirements along with overall personality and skills development.

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

No. of Core Courses : 6	C2 : 2	C3 : 2
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Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 04	Course Year :	2020-2021
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Course Name	Statements
C2 04.1	Understand the concepts of magnetic circuits.
C2 04.2	Understand the operation and control of dc machines.
C2 04.3	Analyze the differences in operation of different dc machine configurations.
C2 04.4	Analyze single phase and three phase transformers circuits
C2 04.5	Identify proper type of motors suitable for a given application.
C2 04.6	Extend the concepts of single phase transformer in fabricating and analyzing various configurations of three phase transformer.

Course Name :	C2 14	Course Year :	2020-2021
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Course Name	Statements
C2 14.1	Demonstrate the operation of conventional generating stations like Thermal, Hydro, Nuclear and renewable energy sources.
C2 14.2	Analyzing various economic aspects and tariff methods in power system.
C2 14.3	Design of Insulators, sag and tension.
C2 14.4	Understand different underground cables.
C2 14.5	Analyze transmission line parameters.
C2 14.6	Calculate transmission line parameters.

Course Name :	C3 03	Course Year :	2021-2022
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Course Name	Statements
C3 03.1	Obtain the mathematical model of Translational and rotational mechanical systems
C3 03.2	Obtain the mathematical models of DC Servo motor - AC Servo motorSynchro transmitter and Receiver
C3 03.3	Improve the system performance by selecting a suitable controller and/ or compensator for a specific application.
C3 03.4	Apply various time domain and frequency domain techniques to assess the system performance.
C3 03.5	Able to design Lag, Lead and Lag-Lead compensators.
C3 03.6	Test system Controllability and Observability using state space representation.

Course Name :	C3 22	Course Year :	2021-2022
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Course Name	Statements
C3 22.1	Identify the difference between conventional vehicles and Electric Vehicles.
C3 22.2	Understand the models to describe hybrid vehicles and their performance, various battery sources and energy storage systems.
C3 22.3	Apply the concepts of electrical machines, Power Electronics for the design of Electrical Vehicles.
C3 22.4	Analyze the various vehicle technologies, Drive trains, Energy storage devices and energy management strategies.
C3 22.5	Evaluate the suitable combination of electric motors, power electronic converters, and battery. Evaluate energy management strategies.
C3 22.6	Develop the efficient and effective Hybrid Electric Vehicles.

Course Name :	C4 02	Course Year :	2022-2023
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Course Name	Statements
C4 02.1	Develop Ybus , Zbus matrices for the power system networks
C4 02.2	Perform the load flow analysis of power system networks using Gauss Seidel, Newton-Raphson methods.
C4 02.3	Analyze symmetrical and unsymmetrical faults in power system networks.
C4 02.4	Estimate the Transient and steady state Stability for single machine infinite system.
C4 02.5	Apply mathematical techniques/methods to solve economic load dispatch problems.
C4 02.6	Model and analyze the single and two area Load frequency control systems for the control of frequency

Course Name :	C4 23	Course Year :	2022-2023
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Course Name	Statements
C4 23.1	Apply various compensation techniques using FACTS devices.
C4 23.2	Acquire knowledge on Multilevel converters.
C4 23.3	Apply different Pulse width modulation techniques under different operating conditions.
C4 23.4	Identify the FACTs devices for different applications on system control.
C4 23.5	Acquire knowledge on power quality issues
C4 23.6	Implement different custom power devices to effectively mitigate the power quality problems.

Course Articulation Matrix

1 . course name : C204

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	Understand	3 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C204.2	Understand	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C204.3	Analyze the	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C204.4	Analyze sin	2 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C204.5	Identify pro	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C204.6	Extend the	2 ▾	1 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
Average		2.33	1.83	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2 . course name : C214

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	Demonstrat	3 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾
C214.2	Analyzing v	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C214.3	Design of Ir	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾
C214.4	Understand	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	- ▾
C214.5	Analyze tra	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C214.6	Calculate tr	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
Average		2.83	2.75	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	1.67	1.50

3 . course name : C303

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	Obtain the i	3 ▾	2 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C303.2	Obtain the i	1 ▾	2 ▾	- ▾	- ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C303.3	Improve the	- ▾	2 ▾	3 ▾	1 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C303.4	Apply vario	2 ▾	2 ▾	1 ▾	- ▾	2 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C303.5	Able to des	- ▾	1 ▾	2 ▾	1 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C303.6	Test system	1 ▾	2 ▾	- ▾	- ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
Average		1.75	1.83	1.75	1.00	2.20	2.50	2.25	0.00	0.00	0.00	0.00	0.00

4 . course name : C322

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	Identify the	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C322.2	Understand	3 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C322.3	Apply the c	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C322.4	Analyze the	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C322.5	Evaluate th	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾
C322.6	Develop the	3 ▾	2 ▾	- ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾
Average		3.00	2.67	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00

5 . course name : C402

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	Develop Yb	3 ▾	2 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C402.2	Perform the	3 ▾	1 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C402.3	Analyze syt	3 ▾	2 ▾	1 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C402.4	Estimate th	3 ▾	3 ▾	- ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C402.5	Apply math	2 ▾	3 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C402.6	Model and .	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
Average		2.83	2.33	2.17	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00

6 . course name : C423

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C423.1	Apply vario	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C423.2	Acquire knc	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C423.3	Apply differ	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C423.4	Identify the	3 ▾	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C423.5	Acquire knc	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C423.6	Implement i	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
Average		3.00	3.00	3.00	3.00	2.60	2.25	0.00	0.00	0.00	0.00	0.00	2.00

1 . Course Name : C204

Course	PSO1	PSO2
C204.1	2 ▾	- ▾
C204.2	2 ▾	- ▾
C204.3	- ▾	2 ▾
C204.4	- ▾	2 ▾
C204.5	- ▾	1 ▾
C204.6	- ▾	2 ▾
Average	2.00	1.75

2 . Course Name : C214

Course	PSO1	PSO2
C214.1	2 ▾	2 ▾
C214.2	2 ▾	- ▾
C214.3	2 ▾	- ▾
C214.4	2 ▾	- ▾
C214.5	2 ▾	1 ▾
C214.6	2 ▾	1 ▾
Average	2.00	1.33

3 . Course Name : C303

Course	PSO1	PSO2
C303.1	- ▾	2 ▾
C303.2	- ▾	- ▾
C303.3	- ▾	- ▾
C303.4	- ▾	- ▾
C303.5	- ▾	- ▾
C303.6	- ▾	- ▾
Average	0.00	2.00

4 . Course Name : C322

Course	PSO1	PSO2
C322.1	-	-
C322.2	3	-
C322.3	3	-
C322.4	3	-
C322.5	-	3
C322.6	3	-
Average	3.00	3.00

5 . Course Name : C402

Course	PSO1	PSO2
C402.1	2	-
C402.2	2	-
C402.3	2	-
C402.4	2	2
C402.5	2	2
C402.6	2	2
Average	2.00	2.00

6 . Course Name : C423

Course	PSO1	PSO2
C423.1	-	-
C423.2	-	-
C423.3	1	2
C423.4	2	1
C423.5	1	2
C423.6	1	2
Average	2.83	2.17

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C101-P	2.17	1.83	2	2.33	1.67	1.75	2	PO8	PO9
C102-LAN	1	2	3	PO4	PO5	PO6	PO7	PO8	PO9
C103-PPS	2.2	2.2	2.2	PO4	2	PO6	PO7	PO8	1
C104-EG	2	1	1.5	PO4	2	2	1.67	PO8	PO9
C105-EW	2	PO2	2	PO4	PO5	1.83	PO7	1.17	PO9
C106-PL	1.75	1.83	1.83	2	1.5	1.75	2	3	2.5
C107-PRC	2.17	2.2	2.2	1	2	PO6	PO7	PO8	1.4
C109-C	1.8	2	2	2	3	2	2	PO8	PO9
C110-NTT	3	2.33	2	1	PO5	PO6	PO7	PO8	PO9
C111-E	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	3
C112-BEE	3	2.5	2.33	2	PO5	PO6	PO7	PO8	PO9
C113-CL	2.75	2	2	2	2	1	PO7	PO8	PO9
C114-EPC	PO1	PO2	PO3	1	PO5	PO6	PO7	1	3
C115-BEE	3	3	2.33	2.5	PO5	PO6	PO7	PO8	PO9
C116-CMI	2.33	2.33	2.83	2	2	PO6	PO7	PO8	1
C201-MA	2.5	2.33	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C202-CT	2.83	2.17	2.17	2	2	2	2	PO8	PO9
C203-AE	3	3	2	2	PO5	PO6	PO7	PO8	PO9
C204-EM	2.33	1.83	2.17	PO4	PO5	PO6	PO7	PO8	PO9
C205-EMF	2	2	1.33	1.5	1	2	PO7	PO8	PO9
C206-CL	2.33	1	2.67	2.33	PO5	1	PO7	PO8	2
C207-AEL	3	3	2.67	2.5	1	PO6	PO7	3	3
C208-EM	2.4	1.33	2	PO4	PO5	PO6	PO7	PO8	PO9
C210-TTA	3	3	PO3	PO4	PO5	PO6	PO7	PO8	1
C211-MS	1	1	PO3	PO4	PO5	1	1	1	PO9
C212-DE	1.83	1	2.67	1.8	2	PO6	2	1	2.17
C213-EMZ	3	2.67	2.83	2.83	PO5	2.5	PO7	PO8	PO9
C214-PS1	2.83	2.75	2	PO4	PO5	2	2	PO8	PO9
C215-EMZ	3	2.67	2.83	2.83	PO5	3	PO7	PO8	3
C216-ESL	2.33	2.2	1.83	2	2	PO6	PO7	PO8	3
C217-DEL	1.6	2	2.4	2	2.6	PO6	2	PO8	2.2

C301-MEI	PO1	PO2	1.2	2	PO5	PO6	3	PO8	1
C302-PS2	2.6	2.6	1.5	2.5	PO5	1	1	PO8	PO9
C303-CS	1.75	1.83	1.75	1	2.2	2.5	2.25	PO8	PO9
C304-EMI	2.17	2.4	2.2	PO4	PO5	PO6	PO7	PO8	PO9
C307-FD€	2.6	2.33	2.4	1.75	1.75	2	PO7	PO8	2.3
C308-JAV	2	2	3	1.83	2	PO6	PO7	PO8	2
C312-DM	PO1	2	2.33	PO4	2	1.5	2.67	PO8	PO9
C314-EMI	2.17	2.4	2.2	PO4	PO5	PO6	PO7	PO8	PO9
C315-CSL	1.33	1.6	1.6	1	PO5	PO6	PO7	PO8	PO9
C316-ES€	PO1	1	PO3	PO4	PO5	PO6	PO7	1	2
C317-FM	PO1	PO2	PO3	PO4	PO5	1	3	PO8	3
C318-MPI	1.5	2	1	3	1.5	3	PO7	PO8	PO9
C319-PE	2.67	3	3	1	2.83	1.83	2	PO8	PO9
C322-EH\	3	2.67	3	3	3	3	3	PO8	PO9
C325-DBM	2.17	2	2.2	1.5	2	PO6	PO7	PO8	PO9
C326-BSF	PO1	PO2	PO3	PO4	3	2	PO7	PO8	3
C330-MPI	1.5	2	2.67	1	2	PO6	PO7	PO8	2
C331-PEL	3	3	3	PO4	2	2	PO7	PO8	PO9
C332-SEM	2.83	2.17	2.17	2	2	2	2	2	PO9
C401-PSF	2.5	2	2	1.5	1.33	1.67	2	PO8	PO9
C402-PS/	2.83	2.33	1.8	2	2	PO6	PO7	PO8	PO9
C403-ED	3	2.5	1.8	1.5	1	1	1.5	PO8	1
C404-PLC	1.33	2	3	1	2	PO6	PO7	PO8	PO9
C405-ED€	2.5	1.75	1.83	1.25	1.5	PO6	1.5	PO8	PO9
C406-UEE	1.83	1.4	1.67	1	PO5	PO6	PO7	PO8	PO9
C408-SEC	1.33	1.4	1.33	1.4	2	1	1.2	2	1
C410-PP	3	3	3	3	3	3	PO7	PO8	PO9
C413-IM	PO1	PO2	PO3	PO4	PO5	2.25	3	PO8	2
C414-PSL	2.5	1.5	2.5	1	PO5	3	PO7	PO8	PO9
C415-MIN	2.75	2.67	2.33	2.25	1.33	1	1	1	1.75
C416-PP1	3	3	2.5	2	2	2	2	3	2.67
C417-EPM	PO1	PO2	PO3	PO4	PO5	2	2.2	PO8	2.5

C418-GIR	1.67	1.17	1.25	1.33	1	1	1.33	PO8	1
C423-PQf	3.00	3.00	3.00	3.00	2.60	2.25	PO7	PO8	PO9
C428-EIA	1.33	1.25	2.33	2	2	2	1	1.25	2.25
C429-PP2	3	3	2.5	2	2	2	2	3	2.67

Course	PSO1	PSO2
C101-P	1.17	1.2
C102-LAN	PSO1	2
C103-PPe	1.25	1.25
C104-EG	1	1
C105-EW	1.5	1.5
C106-PL	1	1
C107-PRC	2	1.5
C109-C	1.33	1.33
C110-NTI	PSO1	1.83
C111-E	PSO1	1.33
C112-BEE	2.83	2.83
C113-CL	1.33	1
C114-EPC	PSO1	1.67
C115-BEE	2.67	2.67
C116-CMI	PSO1	PSO2
C201-MA	PSO1	1.83
C202-CT	2	2
C203-AE	2	2
C204-EM	2	1.75
C205-EMI	3	3
C206-CL	2	1.25
C207-AEL	3	1
C208-EM	1	1
C210-TTA	PSO1	1.83
C211-MS	PSO1	PSO2
C212-DE	2	2.5
C213-EM	3	3

C214-PS1	2	1.33
C215-EM	3	3
C216-ESL	1.67	1.5
C217-DEL	3	2
C301-MEI	PSO1	PSO2
C302-PS2	2.6	2
C303-CS	PSO1	2
C304-EMI	1.67	2.33
C307-FDE	2.5	1.5
C308-JAV	2	PSO2
C312-DM	1	1
C314-EMI	1.67	2.33
C315-CSL	1.2	1.2
C316-ES	PSO1	PSO2
C317-FM	PSO1	PSO2
C318-MPI	1.75	1.5
C319-PE	1.83	1.83
C322-EH	3	3
C325-DB	2	2
C326-BSF	PSO1	PSO2
C330-MPI	1.75	1.5
C331-PEL	1	1
C332-SEM	2	2.5
C401-PSF	2.33	2.33
C402-PS	2	2
C403-ED	2	2
C404-PLC	PSO1	PSO2
C405-ED	1.67	1.67
C406-UEE	1.33	1.67
C408-SEC	1.25	1.5
C410-PP	3	2
C413-IM	PSO1	PSO2

C414-PSL	1	PSO2
C415-MIN	3	PSO2
C416-PP1	3	3
C417-EPM	PSO1	PSO2
C418-GIR	1.25	1.75
C423-PQF	3	3
C428-EIA	1	1
C429-PP2	3	3

3.2 Attainment of Course Outcomes (75)

The "**Attainment of Course Outcomes**" section provides a comprehensive overview of the extent to which the intended learning outcomes of individual courses within the program are achieved.

This section includes detailed analyses and assessments of various assessment processes, tools, and methodologies employed to measure and evaluate student attainment.

3.2.1. Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based. (10)

3.2.1 A. List of assessment processes (Course Level Assessment process).(2)

Assessment process happens in two ways. Direct assessment method and indirect assessment method. Tools and the methodology differ for direct assessment and indirect assessment methods.

i) Direct assessment tools

1. Internal Examinations (Theory)
2. Assignments
3. Semester End Examination (Theory)
4. Laboratory Internal Evaluation (Practical)
5. Laboratory External Examinations (Practical)
6. Student Seminars
7. Mini-Projects
8. Major Projects

ii) Indirect assessment tools

1. Course End Survey

The attainment of Course Outcomes is based on the following assessment and evaluation processes:

i) Direct assessment tools

1. Continuous Internal Examinations (CIE) (Theory):

- Two continuous internal examinations are conducted for 30 marks each.
- The first internal examination will be conducted from 50 % of the syllabus and the second internal examination for the remaining 50% of the syllabus.
- Internal examination consists of Part-A for 10 marks and Part-B (Subjective Type) for 15 marks with a duration of 2 hours.
- Part A consists of 10 questions with one mark for each question. (No choice in this section.)
- Part B contains 5 questions of which students must answer any 3 questions of 5 marks each.
- Students' performance in both the internal examinations will be considered for the internal marks, The average of both the internal examination marks will be considered as final internal marks.

2. Assignments:

- Assignment is given for each course for 5 marks evaluation and is a part of CIE.
- Each student must submit the assignment before the internal examination.
- Two assignments are given in a semester.
- Assignment questions follow the blooms taxonomy levels, course outcome mapping.

3. Semester End Examination (Theory)

- The semester end examinations are conducted for 70 marks.
- The question paper consists of Part-A (10 marks) and Part-B (60 marks).
- Part-A comprises of 5 sub questions of 2 marks each.
- All the questions of Part-A are mandatory.
- In Part-B, 2 questions will be given from each unit for 12 marks each and out of which only one question must be answered as internal choice.

4. Laboratory Internal Evaluation (Practical)

- The laboratory courses are evaluated continuously throughout the semester for internal assessment.
- The internal evaluation is done for 30 marks.
- Evaluation is based on.

- Attendance and performance in the laboratory (5 marks)
- Lab observation submission after the experiment (5 marks)
- Lab record evaluation (5 marks)
- Viva (5 marks)
- Internal examination at the end of the semester (10 marks)

5. Laboratory External Examinations (Practical)

- The external evaluation is done for 70 marks.
- The external practical examination will be conducted in the presence of an external examiner.

6. Seminars

- The seminar presentation is in III Year II Semester.
- The student gives a presentation on a technical topic and submits a technical report to the department.
- The seminar presentation along with the technical report submitted, will be evaluated for 100 marks by two senior faculty members and head of the department.
- There is no semester end examination or external examination for the seminar.

Project work:

- The project work is assigned and carried out by a group of a maximum of four or five students.
- The students are encouraged to choose the topic of the project work in their own area of interest.
- They are also motivated to carry out work under the guidance of faculty in their research area.

7. Mini-Projects

- The final evaluation of the project will be done in IV year I Semester for 100 marks by the committee.
- The committee constitutes external examiner, Head of the department, senior faculty members of the department and faculty supervisor.
- There are no internal marks awarded for the mini project.
- After completing the project, the department conducts a project demonstration wherein the students exhibit their project work which will be evaluated by the panel of judges.

8. Major Projects

- The project work is divided and carried out in 2 phases: Phase-I in IV Year I Semester and Phase-II in IV Year II Semester.
- The student prepares two project reports. First report for the project work carried out under Phase-I and second report for Phase-II.
- Phase- I and phase- II of the project work will be evaluated for 100 marks each, 30 marks for continuous internal evaluation and 70 marks for semester end evaluation (viva-voce).
- For the project phase - I, the viva-voce will 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 senior faculty member and supervisor (no external examiner).
- Project Phase - II (or final project viva-voce) will 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.

Table 3.2.1.1 Assessment criteria for major projects

Division of marks allotted for the CIE and the SEE for projects		
Project Phase -I		
Assessment	Evaluator	CIE / SEE
Internal	PRC, Supervisor	CIE (30M)
External	Internal Examiner	SEE (70M)
Total		100 M
Project Phase-II		
Internal	PRC, Supervisor	CIE (30M)
External	External Examiner	SEE (70M)
Total		100 M

The frequency at which these evaluations are done is listed in Table 3.2.1.2.

Table 3.2.1.2 Assessment Tools and Evaluation Frequency

S. No	Assessment Tools	Assessment process	Frequency of Evaluation
1	Internal Examinations (Theory)	Theory exams with a weightage of 25 Marks each.	2 times per semester
2	Assignments	Each assignment carries 5 Marks.	2 times per semester
3	Semester End examination (Theory)	The SEE holds a weightage of 70 Marks.	Once in semester
4	Laboratory Internal evaluation	Continuous evaluation for 20 Marks and Internal Examination for 10 Marks.	Once in semester
5	Laboratory External Examinations	External examination carrying 70 Marks.	Once in semester
6	Seminars	Internal evaluation with a weightage of 100 marks.	Once in a program
7	Mini - Projects	External evaluation for 100 Marks	Once in a program
8.	Major Projects	Internal evaluation for 30 Marks and External evaluation for 70 Marks. (Project Phase-I)	Once in a program
		Internal evaluation for 30 Marks and External evaluation for 70 Marks. (Project Phase -II)	Once in a program

ii) Indirect assessment tools

The table 3.2.1.3 presents assessment tool used is student course end survey. This tool involves collecting feedback through a structured questionnaire with questions rated from 1 to 3, aimed at assessing different aspects of the educational experience and course outcome.

Table 3.2.1.3 Indirect Assessment Tools

S. No	Assessment Tools	Assessment process
1	Student Course End survey	Feedback is collected from students after the completion of each course.

3.2.1 B. The quality/ relevance of assessment processes & tools used. (8)**Process used for assessing the attainment of course outcome:**

The Course Attainment for all the courses will be calculated including theory courses, practical courses, project work, seminars, and mini-project work. The detailed process of Course Attainment Calculation is explained in Figure 3.2.1.1.

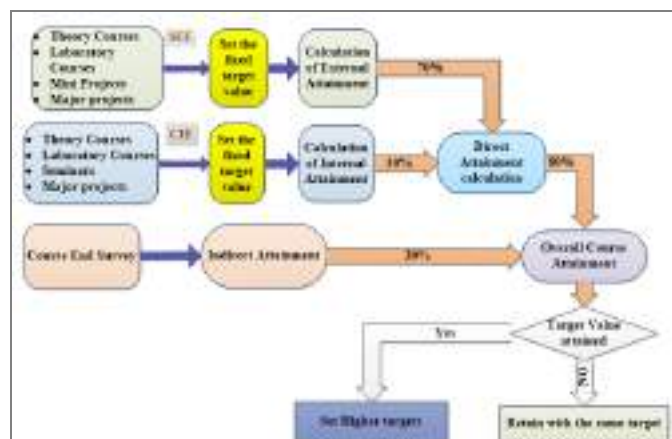


Figure 3.2.1.1: Process of Course Attainment Calculation

3.2.1.b1 Measuring CO Attainment for Theory Courses:

- Once the Course Outcomes are defined for each course and are finalized for the program, 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 senior faculty handling the course deputed as the course coordinator.
- The faculty who is experienced in the related subject is identified as module coordinator.
- The Program Assessment Committee (PAC) along with module coordinator will review the attainment of the courses.
- The Course attainment for a particular course is obtained by CIE (30%) and SEE (70%) together contributes to 80% of direct attainment and 20% of indirect attainment (Course End Survey). The process is explained with a figure 3.2.1.1 and the detailed explanation taki

3.2.1.b2 Calculation of CO attainment through CIE (Direct Assessment)

- For example, the questions of Internal Examination-1 may relate to CO1, CO2 and CO4. the questions of Internal examination-2 may relate to CO3, CO5 and CO6. CO attainment is evaluated based on the questions that correspond to a particular CO.
- The attainment for each question is calculated for all the students in the class which is obtained by the formula:
- Attainment (CO wise)= B/A
- where
 - A= Maximum marks for attempted questions by the student in a particular CO.
 - B=Marks scored by the student in the attempted questions of a particular CO.
- The calculation is made for all students in each CO.
- If the B/A is greater than target level, then it is considered as the student reached the attainment level and is marked as Y, if not reached they are marked as N and students didn't attempt the CO based question are left blank. Now attainment level is calculated based on th
- CO attainment level is calculated based on the percentage of students achieving more than the threshold/ target value. The same is depicted in table 3.2.1.4.

Table 3.2.1.4 Defining attainment levels for CO attainment.

Attainment Level 3	No. of students reached the threshold/ target level \geq 80%
Attainment Level 2	No. of students reached the threshold/ target level \geq 70% & < 80%.
Attainment Level 1	No. of students reached the threshold/ target is \geq 60% & < 70%
Attainment Level 0	No. of reached the threshold/ target level is < 60%

3.2.1 b3 Calculation of CO attainment for SEE (Direct Assessment):

- For calculating CO attainment for semester end examinations (SEE)/ external examinations, the same process is followed as internal examinations.
- The CO-wise attainment is calculated for external examinations by considering the threshold/ target value for each course outcome.
- The threshold/ target value is fixed for SEE, by the program assessment committee.
- Attainment levels are defined as shown in table 3.2.1.4.

3.2.1 b4 Measuring of CO Attainment through course end survey (Indirect Assessment):

- The course end survey is conducted online for each course to gather students opinions and understanding regarding course outcomes.
- A questionnaire is designed specifically to assess students abilities in achieving the course outcomes, with ratings ranging from 0 to 3 (0 for unable to perform, 1 for low, 2 for moderate, and 3 for strong).
- The average rating for each course outcome is then calculated.

3.2.1.b5 Calculation of final CO attainment for each Course:

- The Final CO wise attainment is calculated by considering the 80% direct attainment and 20% of indirect attainment as shown in figure 3.2.1.2.



Figure 3.2.1.2 CO attainment calculation course wise

3.2.1.b6: Assessment procedure for project work/ Mini project:

- The procedure for the internal review and evaluation of project work is meticulously structured to ensure thorough scrutiny and validation at various stages shown in figure 3.2.1.3.

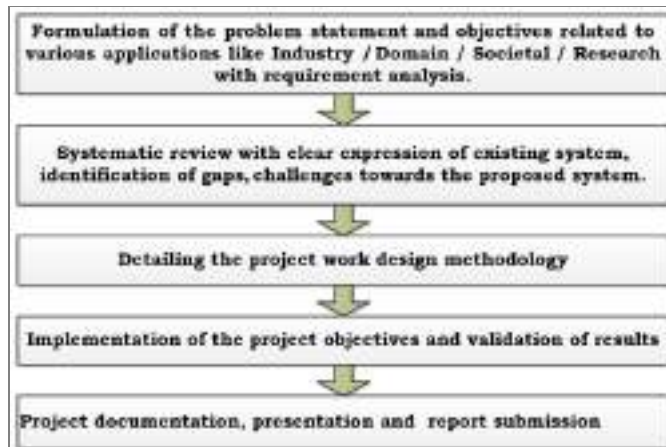


Figure 3.2.1.3 Flow of assessment procedure for project work

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

To explain the assessment process one sample is considered and is explained step wise.

- **Course name:** Power System analysis (PSA)
- **Course Code:** PC117EL NBA Code: C402
- **Academic year of the course:** 2022-23
- As per the curriculum, two continuous internal evaluation (CIE) examinations are being held and one semester end examination (SEE).
- Internal examinations or CIE are also mentioned as midterm examinations or mid-I and mid -II.
- Semester end examination (SEE) is also mentioned as external examinations.

3.2.2a Course attainment procedure for semester end examination (SEE)

- SEE question paper is given with questions in two parts, part A and part B.
- Part A is compulsory section having 5 questions with two marks each.
- Part B is having 10 questions with either or choice numbered between question number 2 or 3, 4 or 5, 6 or 7, 8 or 9 and 10 or 11.
- Each question in part B is having a weightage of 12 marks each.
- Sample question paper of the PSA for semester end examinations is shown below figure 3.2.2.1 .
- Questions are mentioned with mapping of course outcomes and blooms taxonomy levels.

Q/NTES-E-10 – LEVEL

G. Nageswara Institute of Technology & Science
 (Autonomous) (For Women)
 Madhav, Puttaparthi-500 084
IV-B.Tech 4-Semester Regula-Supplementary Examinations, December-2021
POWER SYSTEM ANALYSIS
 (Electrical and Electronics Engineering)
 Max. Marks: 70 Time: 90 Hours

Note:
 1. Question paper comprises of Part A and Part B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B is for 60 marks consists of the questions with "OR" type pattern. Each question carries 12 marks and may have a/b/c/d sub questions. The student has to answer any one full question.

PART A
 (Answer 07 questions. Each question carries 2 marks)

Q.No	Question	Marks	CO	Blom's Level
Q1	a) Define bus admittance matrix of a power system. b) Write the advantages of Y_{bus} and representation of busbar's in power system.	02	CO1	(1,2)
	c) What is equal area criterion? d. Explain incremental production cost curve with reference to thermal power plant. or Explain what is a tie line?	02	CO4	(1,2)
		02	CO3	(1,2)
		02	CO6	(1,2)

END OF PART A

PART B
 (Answer 03 full questions. Each question carries 12 marks)

Q.No	Question	Marks	CO	Blom's Level
Q.2(a)	Explain why load flow studies are performed? or Explain clearly with a flow chart the computational procedure for load flow solution using Gauss – Seidel method when the system contains all types of buses.	10	CO2	(1,2)
	or	10	CO2	(1,2)
Q.2(b)	Classify various types of buses in power system. or Form the bus impedance matrix for the system shown in Figure (1). Use the data as given in table (1).	10	CO2	(1,2)

Figure (1)

Element number	Max. value	Self impedance
1	(1) – (1)	(1) – (1)
2	(2) – (2)	(2) – (2)
3	(3) – (3)	(3) – (3)

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ENR-10-1171			
Q10a	How are reactors classified? Explain the needs and demands of different types of reactor protection using reactors.	001	C03 (1.1)
01	The capacity of plant A is 1000 MW and the plant B is 8000 MW. If there is a one second outage at the plant A, determine the possible short circuit current at the plant B. Assume the reactance of plant A is 0.1% and plant B is 0.5%.	001	C03 (1.5)
OR			
Q10b	A 10 MW, 11.5kV, 1 phase synchronous generator has a direct subtransient reactance of 0.2 pu. The negative and zero sequence reactance are 0.33 and 0.12 pu respectively. The neutral of the generator is solidly grounded. Find the subtransient currents and the line-to-line voltage at the fault under subtransient conditions when a line-to-line fault occurs at the terminal of the generator. Assume the generator is unloaded and operating at rated terminal voltage when the fault occurs.	022	C03 (1.8)
Q10a	Derive the top equation from fundamentals.	001	C04 (1.1)
01	A 50 Hz generator delivering 50% of the power that is capable of delivering through a transmission line to an infinite bus. A fault occurs that increases the reactance between the generator and the infinite bus to 500% of its value before the fault. When the fault is removed, the maximum power that can be delivered is 70% of the original maximum value. Determine the actual clearing angle δ of the combination described.	001	C04 (1.5)
OR			
Q10b	Discuss the application of Equal area criterion for the system stability study when (i) a sudden increase in load takes place, and (ii) a short circuit occurs at the parallel busbar where there is a cleared fault current flow.	011	C04 (1.8)
Q10a	Derive the transmission line formula for a system consisting of n generating plants supplying several loads interconnected through a transmission network.	001	C05 (1.5)
01	What is a penalty factor in economic scheduling? Give its significance.	001	C05 (1.1)
OR			
Q10b	Derive the conditions to be satisfied for economic operation of a two bus power system.	001	C05 (1.8)
01	The incremental fuel costs for two plants are given by $\frac{dF_1}{dP_1} = 0.01P_1 + 20$ Rs/MWh and $\frac{dF_2}{dP_2} = 0.015P_2 + 22.5$ Rs/MWh. If the load on the system $P_D = 200$ MW. Find the economic load dispatch employing buses.	001	C05 (1.5)
Q10a	With first order approximation, express the dynamic response of an induction motor for load frequency control.	001	C06 (1.4)
01	Draw the block diagram of a single area control system.	001	C06 (1.1)
OR			
Q10b	Obtain the first order transfer model.	001	C06 (1.8)
01	A single area system has the following parameters at 5000 MW a base: $R = 0.01$ pu, $G = 0.02$. The unit is at frequency of 50 Hz. A load change of 200 MW occurs at one determine the new steady state frequency.	001	C06 (1.5)
END OF PART B			
END OF THE QUESTION PAPER			
Page 1 of 1			

Figure 3.2.2.1 Power System Analysis External exam Question paper

- Course attainment of PSA through SEE is explained in a table 3.2.2.1.
- Sample of student roll number 19251A0203 is taken as example.
- Student answered 1a, 1b, 1c, 1d, 1e, 3a, 3b 7a, 8a, 8b, 9a, 9b, 11a, 11b
- Marks scored as 2, 2, 1, 2, 1, 4, 6, 10, 7, 4, 6, 4, 6 and 5
- Questions answered are mapped with COs, CO1,CO1, CO4, CO5, CO6, CO2, CO1, CO4, CO5, CO5, CO5, CO5, CO6, CO6 respectively.

Table 3.2.2.1 Marks entry of SEE along with COs for each question

S.no	Question No.	1a	1b	1c	1d	1e	2a	2b	3a	3b	4a	4b	5a	6a	6b	7a	8a	8b	9a	9b	10a	10b	11a	11b
	CO	CO 1	CO 1	CO 4	CO 5	CO 6	CO 2	CO 2	CO 2	CO 1	CO 3	CO 3	CO 3	CO 4	CO 4	CO 4	CO 5	CO 5	CO 5	CO 5	CO 6	CO 6	CO 6	CO 6
	Maximum Marks	2	2	2	2	2	4	8	4	8	4	8	12	6	6	12	8	4	6	6	8	4	6	6
	Roll No.	Part-A						Part-B																
1	19251A0201	2	2	2		1	3	7	4	6	3	6		6	3	12	8	2	6	2			6	4
2	19251A0202	1	2	2	2	1	3	1	4	7	2			6	3		8	4	6	5		3		
3	19251A0203	2	2	1	2	1			4	6						10	7	4	6	4			6	5
4	19251A0204	1	2	2	2	1	3	8	4	8	1	6	10			12			6	6			6	6
5	19251A0205	1	2	1	1	2			4	6		5	8	4		11			6	6			4	5
6	19251A0206	1	2	2	2	1	4	7			3	2	6	6	4		8	3		4		3		
7	19251A0207	0	2	2	2	1			3	3				6			6	4		4	5	4		
8	19251A0208	1	2	1	2	1			4	7			8			11			6	6			6	5
9	19251A0209	1	2	1	2	1			2	6			6			11			6	5			4	4
10	19251A0210	1	2	2	2	1			4	7						12	8	4	6	5		4		4
11	19251A0211	1	2	2	2	1		7	4	8			12			11			6	6			6	6
12	19251A0212	1	2	1	2	1			4	7	4	6	8	6	3		7	4					6	6
13	19251A0213	1	2	1	2		2	7								11	8	4					6	0
14	19251A0214	1	2	2	2	1			4	7			10			12	7	2					6	5
15	19251A0215	1	1	2	2	1	4	7			3	6	8	6	2	11	7	4	2	6			6	6
16	19251A0216	1	2	1	2	1	3	6	4					6		11			6	5			6	
17	19251A0217	1	2	2	2	1			4	7				6		11	7	3				7	4	
18	19251A0218	1	2	2	2	0			4	7	4	6		6	5				6	6			6	4
19	19251A0219	1	2	2	2				4	6	4	4				11	7	4	6	5		1		
20	19251A0220	1	2	2	2	1	4	7					6	6	3	4	7	3				5	3	
21	19251A0221	1	2	2	2	1	3	7	3	7		3		6		11	7	2	6	5	7	4	6	6
22	19251A0222	1	2	2	2	1	4	7			4	5	8			11			6	6	7	4		
23	19251A0223	1	2	2	2	1			3	7	1	2	5	6	3	9	7	4		5			3	3
24	19251A0224	1	2	2	2	1			4	7			8	6		11			6	5			6	3
25	19251A0225	1	2	1	2	1			4	8						11	6	4					4	6
26	19251A0226	1	2	2	2	1			4	7				6					6	6			6	6
27	19251A0227	2	2	2	2	1			4	7	3	6	8	6		11			6	6			6	6
28	19251A0228	1		2	2				4	6			4			11	6		6	6	7	4		
29	19251A0229	1	2	1	2	2			4	7	4	4		6		11			6	6	2	3		

30	19251A0230	1	2	2	2	1			3	7			4	6	4	6			6	6			5	4
31	19251A0231	1	2	2	2	1			4	7			9	6	1	11			6	5			6	2
32	19251A0232	1	2	2	2	1	1		4	7		2	2	6		12	7	4			3	4		
33	19251A0233	1	2	2	2	1	4	7					7	6	3	11	7	4	6	6	7	4	6	2
34	19251A0234	1	2	1	2				4	7			6			11			6	6			6	
35	19251A0235	1	2	2	2	2	4	7			4	7				12			6	6			6	5
36	19251A0236	1	2	2	2	1			3	7	2	6				9			5	6				1
37	19251A0237	2	2	2	2	1	3	7	4	6	4	5		6	2	11			6	5		4		
38	19251A0238	1	2	1	2	1			4	7	4	4		6	2		6	4	6	6	7	4		
39	19251A0239	1	2	1	2	1			4	6	4	6		6		11	6		6	6	7	2		
40	19251A0240	1	2	2	2	1	3	6								11	7	4				4		
41	19251A0241	1	2	2	2	1	3	6	4	7	4		9	6	5	11	8	4	6	6		4	6	5
42	19251A0242	1	2	2	2	1	2	7	4	7	3	4		6	2	11			6	6	7	3	6	5
43	19251A0243	1	2	2	2	1			4	7	4	6				11			6	6			6	5
44	19251A0244	1	2	2	2	1			4	7			10	6	6				6	6			5	6
45	19251A0245	1	2	2	2	1			4	6			11			11			6	6			5	5
46	19251A0246	1	2	2	2	1			4	7						11	7	4	6	6				6
47	19251A0247	1	2	2	2	1			4	7				6	4		8	2			7	4	6	5
48	19251A0248	1	2	1	2				4	7		2	2			11	7	3	6	6			6	6
49	19251A0249	1	2	1	2	1	4	7	4	7			11			11	8	4	6	6			6	6
50	19251A0250	1	2	1	2	1	4	6	4	3	4	6		6	6		7	2			7	4		
51	19251A0251	1	2	2	2	0			4	8			6			11			6	6			6	3
52	19251A0252	1	2	2	2	1	4	7					7	6	5	12	7	4			4	2	6	6
53	19251A0253	1	2	2	2	1			4	7	2	3	7			11	7	2			6	4		
54	19251A0254	1	2	2	2	1			4	7	3	4		6	5		7		6	6				
55	19251A0255	1	2	2	2	1			4	7			6	6	2				6	5			0	6
56	19251A0256	1	2	2	2	1			4	7		6		6		11			6	6			6	6
57	19251A0257	1	2	1	2	1			4	8			6			12			6	6	8	4		
58	19251A0258	1	2		2	1			4	6	4	5		6		11			6	5			6	5
59	19251A0259	1	2	2	2	1			4	7		5	5	6	1	11			6	6			5	2
60	19251A0260	1	2	2	2	1			4	7			6			11	5		6	6	8	4		
61	19251A0261	1	2	2	2	1			4	7		3	3			11			6	6			6	6
62	19251A0262	0	0	1	0	0			4	7			4	6	5				6	5			6	2
63	19251A0263	1	2	2	2	1	3	7	4	2	4	3		6	5		8	4	6	5			6	6

64	19251A0264	1	2	2	2		2	6	3	7				6		11			6	6			6	3	
65	19251A0265	1	2	2	2	1			4	5			10			5	6	2		3					
66	19251A0266	1	2	1	2				4	6						10			6	5	7	3			
67	19251A0267	1	2	2	2	1			4	3				6	4				6	4	7	3			
68	19251A0268	1	2	2	2	0	4	8			4	7				11			6	6	8	3			
69	19251A0269		2	2	2		4	8	4	7	4	7		6	5	11			6	6			6	6	
70	19251A0270	1	2	2	2	1			4	7	4	6		6		11	5		6	6			6	6	
71	19251A0271	1	2	2	2	1			4	7			8	6	6	10			6	5	4	4			
72	19251A0272	1	2	2	2	1			4	7			7	6	2				4	5				4	
73	19251A0273	1	2	2	2	1	3	7	4	6	4	6					12	7	4			4			
74	19251A0274	1	2	1	2	1			4	6			9			11	8	4			8	4			
75	19251A0275			2	2	2			2	8				6	0			8	4						
76	19251A0276	1	2	2	2	1	4	7			4	7		6	6				6	6	7	4	6		
77	19251A0277	2		2	2		3	4	4	6	4	3		6	2			7	2	6	3	7	3	4	2
78	19251A0278	1	2	2	2	1	3	6	4	5						11	7				5	0			
79	19251A0279	1	2	2	1	1			4	7			3	6	2	11	7	1	6	6	7	3	6	6	
80	19251A0280	1	2	1	2	1	3	7	4	5	2					10	8	2			0	4	4	0	
81	19251A0281	1	2	2	2	1			4	7				6	6	5	10			6	5			6	4
82	19251A0282	1	2	2	2	1	4	7					10			11			6	6	7	4			
83	19251A0283	1	2	2	2		4	7			4	5		6	2	11			6	6			6	6	
84	19251A0284	1	2	2	2	1			4	7	4	6				11			6	5			6	3	
85	19251A0285	1	2	1	2	1	4	7	4	7	4	7		6	6				6	6			6	4	
86	19251A0286	1	2	2	2	1	4	7	4	7			8	6	6				6	5		4	6	4	
87	19251A0287	1	2	2	2	1			4	7	4	7		6	6	11			6	6	6	4			
88	19251A0288	1	2	2	2	1	4	8			4	6				12	7	4					6	2	
89	19251A0289	1	2	2	2	1	4	6	4	7				6	3	11	7	2		4			6	3	
90	19251A0290	1	2	2	2	1			4	7	4	4				11	7	4	6	6					
91	19251A0291	1	2	2	2	1	3	7			3	5				11			6	5	7	4			
92	19251A0292																								
93	19251A0293	1	2	1	2	1	3	8								11	8	2			7				
94	19251A0294	1	2	2	2	1			3	6						11	6		6	4			3	2	
95	19251A0295	0	2	2	2	1			4	7			6	6		11			6	5			6	2	
96	19251A0296	1	2	2	2	1			4	7	4	7		6		12	7	4	6	4	5	4			
97	19251A0297	1	2	2	2	1			4	7	4	4				10			5	6			5	5	

98	19251A0298	1	2	2	2	1	3	7	4	7	3	5	10	6	2	11		6	6	7	4	5	4	
99	19251A0299	1	2	2	1	1	4	7			4	2				11	7	4			8	4		
100	19251A02A0	1	2	2	2	1			3							11	7	2	6		6		5	
101	19251A02A1	1	2	2	2	1			4	3	4	2		6	2		7	4			6	4		
102	19251A02A2	1	2	2	1	1			4	3	3	2			6		8	4		6			2	
103	19251A02A3	1	2	2	2	0			4	7			7			12			6	6	6	4		
104	19251A02A4	1	2	2	2				4	7	2	1		6	3		7	0	6	6			6	1
105	19251A02A5	1	2	2	2	1			4	6							4	4					6	1
106	19251A02A6	1	2	2	2	1			4	7		6	4			11	7				7			
107	19251A02A7	1			2				4	7			7	6	5				6	5			5	3
108	19251A02A8	1	1	1	1	1	4	7	4	7		3	11	6	6		8	4					6	6
109	19251A02A9	1	2	1	2	1	2	5	4	7	4	7		6	6		8	4			4	3		
110	19251A02B0	1	2	2	2	1			4	7		2		4	1	11			5	5	8	3		
111	19251A02B1	1	2	2	2	1			4	7	4	7		6		10			6	6			6	6
112	19251A02B2	1	2	1	2	1			4	7			8			11			6	4			6	5
113	19251A02B3	1	2	1	2	1	3	7	3	6	4	5	9	6	2	11	6	4					6	5
114	19251A02B4	2	2	2	2	1			3	7	4	6		6	5		7	2			3	2		
115	19251A02B5	1	2	2	2	1			4	7	3	5	5			11			6	6	4	2	6	6
116	19251A02B6																							
117	19251A02B7	2	2	1	2	1			4	7	4	7		6	6				6	6		4		
118	20255A0201	1	2	2	2	1			3	7	3	2		5	5	10	8	4						
119	20255A0202	1	2	2	2	1			4	7	0	7		6	5				6	4			5	5
120	20255A0203	1	2	2	1	1			4	7			10	5		11			6	6	6	4		
121	20255A0204	1	2	2	2	1			4	7			10	6	5				6	5	8	4		
122	20255A0205	1	2	2	2	1	2	2	4	5			4	6	5				6	6			6	4
123	20255A0206	1	2	2	2	1	2	1									3							
124	20255A0207	1	2	2	2	1			4	7	4	7					11			6	6			
125	20255A0208	1	2	2	2	1			4	7	4	7					10			6	6			
126	20255A0209	1	2	2	2	1			3	7	4	7		6	5	10	7	4					6	5
127	20255A0210	1	2	2	2	1			4	8	3	7					11			6	6			
128	20255A0211	1	2	2	2	1	4	7					10				11	7	4			7	4	
129	20255A0212	2	2	2	2	1			4	7			8				10			6	6			

- Students performance through SEE can be analysed based on the obtained marks (OM) in attempted questions with the total marks (TM) in the attempted questions in each CO.
- Mapping of attempted questions to course outcomes allows for an assessment of students proficiency in achieving the intended learning outcomes.
- Overall performance can be evaluated by considering the total marks obtained by each student across all attempted questions.
- Targets defined for the course PSA for SEE is fixed as 50% of the maximum marks of SEE.
- Continuing the assessment of student 19251A0203, she scored 10 out of 12 marks in CO1, meeting the target value as her score exceeds 50%.
- Therefore, the designation Y signifies that the target has been achieved.
- However, in CO3, she obtained 0 marks out of 0 shows that the student didn't attempt any question related to CO3.
- Similarly, student with roll number 19251A0206 scored 11 marks out of 24 marks in CO3 for the attempted questions and scored less than 50 %.
- As the target is not met, the designation N is assigned. Empty cells in the table 3.2.2.2 indicates that the student didn't attempt any question related to the CO.

Table 3.2.2.2 Student analysis table for the attainment of each CO

Sn o	COs mapped	C402.1			C402.2			C402.3			C402.4			C402.5			C402.6		
		OM	TM	OM/TM >=Target	OM	TM	OM/TM >=Target	OM	TM	OM/TM >=Target	OM	TM	OM/TM >=Target	OM	TM	OM/TM >=Target	OM	TM	OM/TM >=Target
1	19251A02 01	10	12	Y	14	16	Y	9	12	Y	23	26	Y	18	24	Y	11	14	Y
2	19251A02 02	10	12	Y	8	16	Y	2	4	Y	11	14	Y	25	26	Y	4	6	Y
3	19251A02 03	10	12	Y	4	4	Y	0	0		11	14	Y	23	26	Y	12	14	Y
4	19251A02 04	11	12	Y	15	16	Y	17	24	Y	14	14	Y	14	14	Y	13	14	Y
5	19251A02 05	9	12	Y	4	4	Y	13	20	Y	16	20	Y	13	14	Y	11	14	Y
6	19251A02 06	3	4	Y	11	12	Y	11	24	N	12	14	Y	17	20	Y	4	6	Y
7	19251A02 07	5	12	N	3	4	Y	0	0		8	8	Y	16	20	Y	10	14	Y
8	19251A02 08	10	12	Y	4	4	Y	8	12	Y	12	14	Y	14	14	Y	12	14	Y
9	19251A02 09	9	12	Y	2	4	Y	6	12	Y	12	14	Y	13	14	Y	9	14	Y
10	19251A02 10	10	12	Y	4	4	Y	0	0		14	14	Y	25	26	Y	9	12	Y
11	19251A02 11	11	12	Y	11	12	Y	12	12	Y	13	14	Y	14	14	Y	13	14	Y
12	19251A02 12	10	12	Y	4	4	Y	18	24	Y	10	14	Y	13	14	Y	13	14	Y
13	19251A02 13	3	4	Y	9	12	Y	0	0		12	14	Y	14	14	Y	6	12	Y
14	19251A02 14	10	12	Y	4	4	Y	10	12	Y	14	14	Y	11	14	Y	12	14	Y
15	19251A02 15	2	4	Y	11	12	Y	17	24	Y	21	26	Y	21	26	Y	13	14	Y
16	19251A02 16	3	4	Y	13	16	Y	0	0		18	20	Y	13	14	Y	7	8	Y
17	19251A02 17	10	12	Y	4	4	Y	0	0		19	20	Y	12	14	Y	12	14	Y
18	19251A02 18	10	12	Y	4	4	Y	10	12	Y	13	14	Y	14	14	Y	10	14	Y

19	19251A02 19	9	12	Y	4	4	Y	8	12	Y	13	14	Y	24	26	Y	1	4	N
20	19251A02 20	3	4	Y	11	12	Y	6	12	Y	15	26	Y	12	14	Y	9	14	Y
21	19251A02 21	10	12	Y	13	16	Y	3	8	N	19	20	Y	22	26	Y	24	26	Y
22	19251A02 22	3	4	Y	11	12	Y	17	24	Y	13	14	Y	14	14	Y	12	14	Y
23	19251A02 23	10	12	Y	3	4	Y	8	24	N	20	26	Y	18	20	Y	7	14	Y
24	19251A02 24	10	12	Y	4	4	Y	8	12	Y	19	20	Y	13	14	Y	10	14	Y
25	19251A02 25	11	12	Y	4	4	Y	0	0		12	14	Y	12	14	Y	11	12	Y
26	19251A02 26	10	12	Y	4	4	Y	0	0		8	8	Y	14	14	Y	13	14	Y
27	19251A02 27	11	12	Y	4	4	Y	17	24	Y	19	20	Y	14	14	Y	13	14	Y
28	19251A02 28	7	10	Y	4	4	Y	4	12	N	13	14	Y	20	22	Y	11	12	Y
29	19251A02 29	10	12	Y	4	4	Y	8	12	Y	18	20	Y	14	14	Y	7	14	Y
30	19251A02 30	10	12	Y	3	4	Y	4	12	N	18	26	Y	14	14	Y	10	14	Y
31	19251A02 31	10	12	Y	4	4	Y	9	12	Y	20	26	Y	13	14	Y	9	14	Y
32	19251A02 32	10	12	Y	5	8	Y	4	20	N	20	20	Y	13	14	Y	8	14	Y
33	19251A02 33	3	4	Y	11	12	Y	7	12	Y	22	26	Y	25	26	Y	20	26	Y
34	19251A02 34	10	12	Y	4	4	Y	6	12	Y	12	14	Y	14	14	Y	6	6	Y
35	19251A02 35	3	4	Y	11	12	Y	11	12	Y	14	14	Y	14	14	Y	13	14	Y
36	19251A02 36	10	12	Y	3	4	Y	8	12	Y	11	14	Y	13	14	Y	2	8	N
37	19251A02 37	10	12	Y	14	16	Y	9	12	Y	21	26	Y	13	14	Y	5	6	Y
38	19251A02 38	10	12	Y	4	4	Y	8	12	Y	9	14	Y	24	26	Y	12	14	Y
39	19251A02 39	9	12	Y	4	4	Y	10	12	Y	18	20	Y	20	22	Y	10	14	Y

40	19251A02 40	3	4	Y	9	12	Y	0	0		13	14	Y	13	14	Y	5	6	Y
41	19251A02 41	10	12	Y	13	16	Y	13	16	Y	24	26	Y	26	26	Y	16	18	Y
42	19251A02 42	10	12	Y	13	16	Y	7	12	Y	21	26	Y	14	14	Y	22	26	Y
43	19251A02 43	10	12	Y	4	4	Y	10	12	Y	13	14	Y	14	14	Y	12	14	Y
44	19251A02 44	10	12	Y	4	4	Y	10	12	Y	14	14	Y	14	14	Y	12	14	Y
45	19251A02 45	9	12	Y	4	4	Y	11	12	Y	13	14	Y	14	14	Y	11	14	Y
46	19251A02 46	10	12	Y	4	4	Y	0	0		13	14	Y	25	26	Y	7	8	Y
47	19251A02 47	10	12	Y	4	4	Y	0	0		12	14	Y	12	14	Y	23	26	Y
48	19251A02 48	10	12	Y	4	4	Y	4	20	N	12	14	Y	24	26	Y	12	12	Y
49	19251A02 49	10	12	Y	15	16	Y	11	12	Y	12	14	Y	26	26	Y	13	14	Y
50	19251A02 50	6	12	Y	14	16	Y	10	12	Y	13	14	Y	11	14	Y	12	14	Y
51	19251A02 51	11	12	Y	4	4	Y	6	12	Y	13	14	Y	14	14	Y	9	14	Y
52	19251A02 52	3	4	Y	11	12	Y	7	12	Y	25	26	Y	13	14	Y	19	26	Y
53	19251A02 53	10	12	Y	4	4	Y	12	24	Y	13	14	Y	11	14	Y	11	14	Y
54	19251A02 54	10	12	Y	4	4	Y	7	12	Y	13	14	Y	21	22	Y	1	2	Y
55	19251A02 55	10	12	Y	4	4	Y	6	12	Y	10	14	Y	13	14	Y	7	14	Y
56	19251A02 56	10	12	Y	4	4	Y	6	8	Y	19	20	Y	14	14	Y	13	14	Y
57	19251A02 57	11	12	Y	4	4	Y	6	12	Y	13	14	Y	14	14	Y	13	14	Y
58	19251A02 58	9	12	Y	4	4	Y	9	12	Y	17	18	Y	13	14	Y	12	14	Y
59	19251A02 59	10	12	Y	4	4	Y	10	20	Y	20	26	Y	14	14	Y	8	14	Y
60	19251A02 60	10	12	Y	4	4	Y	6	12	Y	13	14	Y	19	22	Y	13	14	Y

61	19251A02 61	10	12	Y	4	4	Y	6	20	N	13	14	Y	14	14	Y	13	14	Y
62	19251A02 62	7	12	Y	4	4	Y	4	12	N	12	14	Y	11	14	Y	8	14	Y
63	19251A02 63	5	12	N	14	16	Y	7	12	Y	13	14	Y	25	26	Y	13	14	Y
64	19251A02 64	10	12	Y	11	16	Y	0	0		19	20	Y	14	14	Y	9	12	Y
65	19251A02 65	8	12	Y	4	4	Y	10	12	Y	7	14	Y	13	20	Y	1	2	Y
66	19251A02 66	9	12	Y	4	4	Y	0	0		11	14	Y	13	14	Y	10	12	Y
67	19251A02 67	6	12	Y	4	4	Y	0	0		12	14	Y	12	14	Y	11	14	Y
68	19251A02 68	3	4	Y	12	12	Y	11	12	Y	13	14	Y	14	14	Y	11	14	Y
69	19251A02 69	9	10	Y	16	16	Y	11	12	Y	24	26	Y	14	14	Y	12	12	Y
70	19251A02 70	10	12	Y	4	4	Y	10	12	Y	19	20	Y	19	22	Y	13	14	Y
71	19251A02 71	10	12	Y	4	4	Y	8	12	Y	24	26	Y	13	14	Y	9	14	Y
72	19251A02 72	10	12	Y	4	4	Y	7	12	Y	10	14	Y	11	14	Y	5	8	Y
73	19251A02 73	9	12	Y	14	16	Y	10	12	Y	14	14	Y	13	14	Y	5	10	Y
74	19251A02 74	9	12	Y	4	4	Y	9	12	Y	12	14	Y	14	14	Y	13	14	Y
75	19251A02 75	8	8	Y	2	4	Y	0	0		8	14	Y	14	14	Y	2	2	Y
76	19251A02 76	3	4	Y	11	12	Y	11	12	Y	14	14	Y	14	14	Y	18	20	Y
77	19251A02 77	8	10	Y	11	16	Y	7	12	Y	10	14	Y	20	26	Y	16	24	Y
78	19251A02 78	8	12	Y	13	16	Y	0	0		13	14	Y	9	10	Y	6	14	N
79	19251A02 79	10	12	Y	4	4	Y	3	12	N	21	26	Y	21	26	Y	23	26	Y
80	19251A02 80	8	12	Y	14	16	Y	2	4	Y	11	14	Y	12	14	Y	9	26	N
81	19251A02 81	10	12	Y	4	4	Y	6	12	Y	23	26	Y	13	14	Y	11	14	Y

82	19251A02 82	3	4	Y	11	12	Y	10	12	Y	13	14	Y	14	14	Y	12	14	Y
83	19251A02 83	3	4	Y	11	12	Y	9	12	Y	21	26	Y	14	14	Y	12	12	Y
84	19251A02 84	10	12	Y	4	4	Y	10	12	Y	13	14	Y	13	14	Y	10	14	Y
85	19251A02 85	10	12	Y	15	16	Y	11	12	Y	13	14	Y	14	14	Y	11	14	Y
86	19251A02 86	10	12	Y	15	16	Y	8	12	Y	14	14	Y	13	14	Y	15	18	Y
87	19251A02 87	10	12	Y	4	4	Y	11	12	Y	25	26	Y	14	14	Y	11	14	Y
88	19251A02 88	3	4	Y	12	12	Y	10	12	Y	14	14	Y	13	14	Y	9	14	Y
89	19251A02 89	10	12	Y	14	16	Y	0	0		22	26	Y	15	20	Y	10	14	Y
90	19251A02 90	10	12	Y	4	4	Y	8	12	Y	13	14	Y	25	26	Y	1	2	Y
91	19251A02 91	3	4	Y	10	12	Y	8	12	Y	13	14	Y	13	14	Y	12	14	Y
92	19251A02 92				0			0			0	0		0	0		0	0	
93	19251A02 93	3	4	Y	11	12	Y	0	0		12	14	Y	12	14	Y	8	10	Y
94	19251A02 94	9	12	Y	3	4	Y	0	0		13	14	Y	18	22	Y	6	14	N
95	19251A02 95	9	12	Y	4	4	Y	6	12	Y	19	20	Y	13	14	Y	9	14	Y
96	19251A02 96	10	12	Y	4	4	Y	11	12	Y	20	20	Y	23	26	Y	10	14	Y
97	19251A02 97	10	12	Y	4	4	Y	8	12	Y	12	14	Y	13	14	Y	11	14	Y
98	19251A02 98	10	12	Y	14	16	Y	18	24	Y	21	26	Y	14	14	Y	21	26	Y
99	19251A02 99	3	4	Y	11	12	Y	6	12	Y	13	14	Y	12	14	Y	13	14	Y
100	19251A02 A0	3	4	Y	3	4	Y	0	0		13	14	Y	17	20	Y	12	16	Y
101	19251A02 A1	6	12	Y	4	4	Y	6	12	Y	10	14	Y	13	14	Y	11	14	Y
102	19251A02 A2	6	12	Y	4	4	Y	5	12	N	8	8	Y	19	20	Y	3	8	N

10 3	19251A02 A3	10	12	Y	4	4	Y	7	12	Y	14	14	Y	14	14	Y	10	14	Y
10 4	19251A02 A4	10	12	Y	4	4	Y	3	12	N	11	14	Y	21	26	Y	7	12	Y
10 5	19251A02 A5	9	12	Y	4	4	Y	0	0		2	2	Y	10	14	Y	8	14	Y
10 6	19251A02 A6	10	12	Y	4	4	Y	10	20	Y	13	14	Y	9	10	Y	8	10	Y
10 7	19251A02 A7	8	10	Y	4	4	Y	7	12	Y	11	12	Y	13	14	Y	8	12	Y
10 8	19251A02 A8	9	12	Y	15	16	Y	14	20	Y	13	14	Y	13	14	Y	13	14	Y
10 9	19251A02 A9	10	12	Y	11	16	Y	11	12	Y	13	14	Y	14	14	Y	8	14	Y
11 0	19251A02 B0	10	12	Y	4	4	Y	2	8	N	18	26	Y	12	14	Y	12	14	Y
11 1	19251A02 B1	10	12	Y	4	4	Y	11	12	Y	18	20	Y	14	14	Y	13	14	Y
11 2	19251A02 B2	10	12	Y	4	4	Y	8	12	Y	12	14	Y	12	14	Y	12	14	Y
11 3	19251A02 B3	9	12	Y	13	16	Y	18	24	Y	20	26	Y	12	14	Y	12	14	Y
11 4	19251A02 B4	11	12	Y	3	4	Y	10	12	Y	13	14	Y	11	14	Y	6	14	N
11 5	19251A02 B5	10	12	Y	4	4	Y	13	24	Y	13	14	Y	14	14	Y	19	26	Y
11 6	19251A02 B6	0	0		0	0		0	0		0	0		0	0		0	0	
11 7	19251A02 B7	11	12	Y	4	4	Y	11	12	Y	13	14	Y	14	14	Y	5	6	Y
11 8	20255A02 01	10	12	Y	3	4	Y	5	12	N	22	26	Y	14	14	Y	1	2	Y
11 9	20255A02 02	10	12	Y	4	4	Y	7	12	Y	13	14	Y	12	14	Y	11	14	Y
12 0	20255A02 03	10	12	Y	4	4	Y	10	12	Y	18	20	Y	13	14	Y	11	14	Y
12 1	20255A02 04	10	12	Y	4	4	Y	10	12	Y	13	14	Y	13	14	Y	13	14	Y
12 2	20255A02 05	8	12	Y	8	16	Y	4	12	N	13	14	Y	14	14	Y	11	14	Y
12 3	20255A02 06	3	4	Y	3	12	N	0	0		5	14	N	2	2	Y	1	2	Y

12 4	20255A02 07	10	12	Y	4	4	Y	11	12	Y	13	14	Y	14	14	Y	1	2	Y
12 5	20255A02 08	10	12	Y	4	4	Y	11	12	Y	12	14	Y	14	14	Y	1	2	Y
12 6	20255A02 09	10	12	Y	3	4	Y	11	12	Y	23	26	Y	13	14	Y	12	14	Y
12 7	20255A02 10	11	12	Y	4	4	Y	10	12	Y	13	14	Y	14	14	Y	1	2	Y
12 8	20255A02 11	3	4	Y	11	12	Y	10	12	Y	13	14	Y	13	14	Y	12	14	Y
12 9	20255A02 12	11	12	Y	4	4	Y	8	12	Y	12	14	Y	14	14	Y	1	2	Y

3.2.2b Course outcome attainment through SEE:

- By aggregating the marks obtained for questions mapped to each CO, the attainment level for each CO can be determined for individual students and the entire cohort.
- Table 3.2.2.3 shows the CO wise attained levels for the Course PSA. CO1 to CO6 attained level 2.9.
- These are based on the target levels of SEE which is fixed as 50% of the maximum marks.
- **Level 1:** If the 60 % of students attaining more than the target level.
- **Level 2:** If the 70 % of students attaining more than the target level.
- **Level 3:** If the 80 % of students attaining more than the target level.
- In the table 3.2.2.3, CO attainment % shows the number of students achieved more than the target/threshold level.
- CO attainment value indicates the average of attainment levels.

Table 3.2.2.3 Student analysis table for attainment of each CO

Course Outcome	C402	C402.1	C402.2	C402.3	C402.4	C402.5	C402.6
CO Attainment Level	3	3	3	3	3	3	3
CO Attainment %	96.67	100	100	90	100	100	90
CO Attainment Value	2.9	3	3	2.7	3	3	2.7

- This is to summarise that the attainment level of SEE in the course PSA is achieved as level 2.9.
- Now the next section is detailed about the continuous internal evaluation process CIE followed by the indirect attainment process for the course.

3.2.2 c: Attainment procedure of continuous internal evaluation (CIE):

- Each mid examination question paper is given with questions in two parts.
- All questions in Part A are compulsory to answer and Part B is the choice section.
- Part A has 10 questions with one mark each and part B has 5 questions where the student answers any 3 questions.
- In the internal examination question paper shown in figure 3.2.2.2, each question is articulated based on blooms taxonomy level and is mapped with course outcome.
- Sample question paper for course (subject), Power system analysis, IV B. Tech EEE- I Sem Mid -I examinations, 2022 is given below.
- In the question paper, each question is framed based on course outcomes and blooms taxonomy levels.

U. Nellore Institute of Technology & Science
 (Autonomous)
 Uthrala, Polavaram - 505 004
 U-ETech EEE-1 New MBA-I Examination, 2022

Subject: POWER SYSTEM ANALYSIS
 Subject Code: EE22106
 Duration: 3 Hrs.

QRS: 600
 Max. Marks: 100
 Date: 07-09-22

Exam Questions Levels: Level 1-Remembering, Level 2-Understanding, Level 3-applying
 Level 4 - analyzing, Level 5-Evaluating, Level 6-Creating.

PART-A (1*10)

Answer 10 Questions. Each Question Carry 1 Mark.

Q.No	Question	Mark	CO	CO
Q.1	a) Define the bus impedance matrix.	1	1	CO1
	b) Draw the equivalent π -model representation of a transmission line.	1	1	CO1
	c) Find the number of zero loops in a network graph with 7 nodes and 7 branches.	1	1	CO1
	d) If n = number of nodes, b = number of bus branches and l = number of links, then give the size of cutset admittance matrix.	1	1	CO1
	e) List different types of buses in the power system.	1	1	CO1
	f) What is the purpose of slack bus in power system.	1	1	CO1
	g) Give the performance equation of a generator network in admittance form.	1	1	CO1
	h) What are the quantities specified at load bus in order to obtain load flow solution.	1	1	CO1
	i) If n = number of PV buses, m = number of PQ buses then find the size of the Jacobian matrix J' in order form.	1	1	CO1
	j) What are the advantages of Newton-Raphson method of load flow solution over Gauss-Jordan method of solution.	1	1	CO1

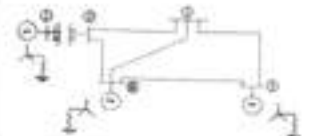
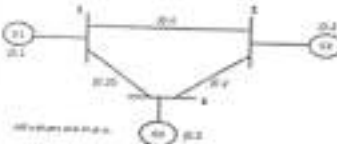
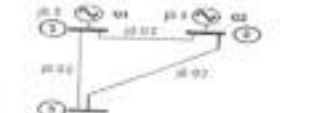
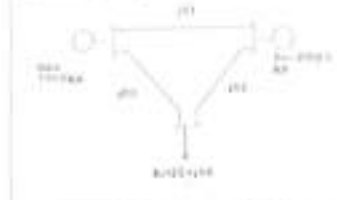
PART-B

Answer 01/01 questions. Each question carries 7 marks.

Q.No	Question	Mark	CO	CO
Q.2	a) Define the following with suitable example: i) Cut admittance matrix ii) set incident matrix.	7	1	CO1

Solved
 N. M. S. Reddy
 26/9/22

Page 2 of 2

<p>Q1) Draw the equivalent diagram for the given Power system.</p> 	<p>(10) 2 CO1</p>
<p>Q2) What is positive sequence and negative sequence current? Derive the expressions for I_{a1} by singular transformation method or show that $I_{a1} = I/3$</p>	<p>(10) 3 CO1</p>
<p>Q3) Compute the New Admittance Matrix for the power system shown in figure using Singular Transformation (Positive sequence network). All impedances are in P.U.</p> 	<p>(10) 3 CO1</p>
<p>Q4) Determine Ybus direct impedance method for the power system network shown in figure.</p> 	<p>(10) 3 CO1</p>
<p>Q5) Classify the various buses in power system. Give the importance of each bus.</p> <p><i>Solved</i> <i>N. Muthu</i> <i>24/3/24</i></p>	<p>(10) 1 CO2</p>
<p>Q6) For the given system shown in figure, determine the phasor values of the voltage at the end of the transmission line. All the impedances are given in p.u.</p> 	<p>(10) 4 CO2</p>
<p>Q7) Derive the expressions for parallel element in polar form of 'N' section of load flow solution.</p>	<p>(10) 4 CO2</p>
<p>Q8) Give the algorithm/flow chart for Newton-Raphson load flow in polar.</p>	<p>(10) 3 CO2</p>

END OF THE QUESTION PAPER

Solved
N. Muthu
24/3/24

Figure 3.2.2.2 Internal examination Question paper PSA**3.2.2 d: Calculation of attainment:**

- Table 3.2.2.4 describes about the entry marks in midterm examination I and II.
- The student with roll number 19251A0293 attended two mid examinations and answered questions 1a, 1c, 1d, 1e, 1f, 1g, 1h, 1j, 2a, 2b, 3a, 3b, 4a, 4b and two assignments A1 and A2.
- The provided table contains detailed data related to the mid-term evaluation of students, including their responses to mid-term exam questions and their mapping with course outcomes (COs). Here's a detailed explanation of the sample data:

Assessment Tools and Process:

- Mid-1 and Mid-2: These columns represent the mid-term evaluation exams conducted, denoted as Mid-1 and Mid-2.

Exam questions and course outcomes Mapping:

- Each row in the table corresponds to a unique student, identified by their roll No.
- The columns within the table represent different exam questions, categorized into two parts: Part A and Part B.
- Part A questions are denoted from 1a to 1j, with each question carrying a weightage of 1 mark.
- Part B questions are labelled from 2a to 6b, comprising a total of 5 questions, out of which students are required to answer 3.
- Questions in Part B may be presented as subparts a and b, with a total of 5 marks divided between them, or as a single question carrying 5 marks.
- Additional columns in the table include assessment parameters of the assignment questions A1 and A2, which may represent additional evaluation criteria derived from assignments or other assessment components.
- The "COs mapped" column indicates the course outcomes (COs) associated with each exam question attempted by the student.

Maximum Marks:

- The "Maximum Marks" row specifies the maximum marks allotted for each exam question, providing a reference for evaluating student performance.

Student Performance:

- Each student's responses to exam questions are recorded as either with a mark obtained (attempted) or empty cell (unattempted).
- One student performance is taken as reference to explain the table in detail.
- To analyze the student's performance in the two mid-examinations, we will examine the questions answered by the student in each mid-examination along with her marks obtained in each Course Outcome (CO).
- For the student with Roll No. **19251A0203**:

In MID-1:

- The student attempted questions 1a, 1c, 1d, 1e, 1f, 1g, 1h, 1j, 2a, 2b, 3a, 3b, 4a, and 4b from Part A and Part B and obtained the marks as 1,0,0,0,1,1,1,1,2,2,2,3,3,2 respectively and for A1 and A2 she scored 3 and 2 respectively.

Table 3.2.2.4a. Mid marks entry of one student in mid-1

Q. No.	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3a	3b	4a	4b	5a	6a	6b	A1	A2
Course Outcome	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
Max. Marks	1	1	1	1	1	1	1	1	1	1	2	3	2	3	3	2	5	3	2	3	2
19251A0203	1		0	0	0	1	1	1	1	2	2	2	3	3	2					3	2

- For CO1, the student scored 18 marks.
- For CO2, the student scored 4 marks.
- For CO3, the student scored 2 marks
- The total marks obtained by the student in MID-1 is 24.
- In MID-2 the distribution of marks for the same student is as shown.
- Table 3.2.2.4 a. Mid marks entry of one student in mid -1

Table 3.2.2.4 a. Mid marks entry of one student in mid -2

Q. No.	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3	4a	4b	5a	6a	6b	A1	A2
Course Outcome	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO
	4	4	4	5	5	5	6	6	5	5	4	4	4	4	5	5	6	6	5	6

Max. Marks	1	1	1	1	1	1	1	1	1	1	1	3	2	5	2	3	5	2	3	3	2	
19251A0203	1			1	1	0			0			2	0	2		3					3	2

- The student attempted questions 1a, 1d, 1e, 1f, 1i, 2a, 2b, 3, 4b from Part A and Part B and the two assignments.
- For CO4, the student scored 5 marks.
- For CO5, the student scored 8 marks.
- For CO6, the student scored 2 marks.
- The total marks obtained by the student in MID-2 is 15.
- Similarly, the entries of the entire 129 students is mentioned in for the sample course in the table 3.2.2.5

Table 3.2.2.5 Mapping of each student attained marks with internal examinations.

		MID-1																	MID-2																												
Q.No.		1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3a	3b	4a	4b	5a	5b	6a	6b	A1	A2	Total	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3	4a	4b	5a	5b	6a	6b	A1	A2	Total	
COs mapped		CO 1	CO 1	CO 1	CO 1	CO 2	CO 2	CO 1	CO 1	CO 2	CO 2	CO 1	CO 1	CO 1	CO 1	CO 1	CO 2	CO 2	CO 2	CO 2	CO 2	CO 1	CO 3	Total	CO 4	CO 4	CO 4	CO 5	CO 5	CO 5	CO 6	CO 6	CO 5	CO 5	CO 4	CO 4	CO 4	CO 4	CO 5	CO 5	CO 6	CO 6	CO 5	CO 6	Total		
Maximum Marks		1	1	1	1	1	1	1	1	1	1	2	3	2	3	3	2	5	3	2	3	2	40	1	1	1	1	1	1	1	1	1	1	3	2	5	2	3	5	2	3	3	2	40			
Sn o	Roll No.	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3a	3b	4a	4b	5a	5b	6a	6b	A1	A2	Total	1a	1b	1c	1d	1e	1f	1g	1h	1i	1j	2a	2b	3	4a	4b	5a	5b	6a	6b	A1	A2	Total	
1	19251A0201	0	1	1	0	1	1	1	0	0	0	2	2	3	1	2	1					3	2	21	1				1	1	0				1	2	0	2		3				3	2	16	
2	19251A0202	1	0	1	0	1	1	0	1	0	1	1	0	2	2	3	2	3					3	2	24	1	0	1	1	1	1	1				3	2	5			5						21
3	19251A0203	1		0	0	0	1	1	1		1	2	2	2	3	3	2					3	2	24	1			1	1	0			0		2	0	2		3					3	2	15	
4	19251A0204	1	1	1	1	1	0	1	0	1	1	2	3	2	3	3	2					3	2	28	1	0	1	1	1	1	1				3	2	5			5				3	2	26	
5	19251A0205	1	1	1	0	1	1	1	1	0	1	1	0	2	2	1	1					3	2	20	1	0	1	1	1	0	0	0	0	1			4	0					3	3	2	17	
6	19251A0206	1	0	1	0			1				2		2	1	3						3	2	16	1	1	0	0	1	1					1	0		1	2				3	2	13		
7	19251A0207	0	1	1	1	1	1	1	0	1	1	2	0	0		1						3	2	16				1		1		0		1			0	0	1					3	2	9	
8	19251A0208	0	1	1	1	1	1	0	0	0	0	2	3	2	3	3	2					3	2	25	1	0	1	0	1	1	0	0	1	1	3	2	5			5				3	2	26	
9	19251A0209	0	1	0	0	1	0	0	0	0	0	2	2	1	3	0	2					3	2	17	0	0	1	1	1	1	0	0	0	1					1	0				3	2	11	

52	19251A02 52	1	0	1	1	1	1	1	0	0		2	1	2	2	2	2						3	2	22	1	0	1	1	1	1	0	0	0	1	3	2	4	2	2					3	2	24		
53	19251A02 53	1	0	0	0	0	0	0	1			2					3	1	2	3	2	15	1		0			1						1	3	0	4			3					3	2	18		
54	19251A02 54	1	1	1	0	1	0	1	1	0	1	1	1	2	2	3	2							3	2	23	1	0	0	1	0	1	0			1	3	2	4			4				3	2	22	
55	19251A02 55																							3	2	5	1	0		1	1	1	0	1		1	3	2	4			3				3	2	23	
56	19251A02 56																							3	2	5	1			1	1	0	1		1	3	1	5		3					3	2	22		
57	19251A02 57	1	1	0	1	1	0	1	1	1	2	3			3	2		3	2				3	2	27	1		1	1	1	1	1	1	1	1	1					3	3	2	3	3	2	25		
58	19251A02 58	0	0	1	0	1	0	1	0	0	1	2	2	2	3	3	2							3	2	23	1	1	1		1	1			1	1	3	2			3	2				3	2	22	
59	19251A02 59	1	0	1	0	1	0	1	1	0	1	2	0	2	0	0	2							3	2	17	0	1	0	1	1		1			0	0	3	2	5		3					3	2	22
60	19251A02 60	0	1	1	0	1	1	0	0	1	1		2	2		3	1	5						3	2	24	1	0	0	0	1	1	1	0	0	1	3	2	2			4				3	2	21	
61	19251A02 61	1	1	1		1	0	1	1		0	1	0	1	2	3	1							3	2	19		0	1	0		1				1	3				2	3				3	2	16	
62	19251A02 62	1	1	1	0	1	1	1	1	0	1	2	3	2	3	3	2							3	2	28	0	0	0	0	0	1	0	0	0	1	3	1	3	1	1						3	2	16
63	19251A02 63	1	1	1	0	1	0	1	0	0	0	2	1	2	1	0	1							3	2	17	0	0		0	0	0	0	0	0	1	3	1	4	0	2	3					3	2	19
64	19251A02 64	1	0	0	0	1	1	0	0	0	1	2	0	2	3	3	2							3	2	21	0	0	0	0	0	1	0	0		1	3	1		1		1					3	2	13
65	19251A02 65	1	1	0	0	1	1	0	0	0	0	2	0	2	1	3	2							3	2	19	1		1	1	1	1	1			1	3	2	3	0	2	3					3	2	25
66	19251A02 66																								3	2	5	1	0		0	0					2	0			0						3	2	8
67	19251A02 67	1	1	1	0	1	1	1	1	0	1			2	3	3	2	5						3	2	28	1	1	1	1	1	1	1	1	0	0	1	3	1	5	1	2					3	2	25
68	19251A02 68	1	1	1	1	1	1	0	1	0	0	1	1	2	2	3	2							3	2	23	1			0	0	1				0	3	0			2	4					3	2	16
69	19251A02 69	1	1	1	0	1	1	1	1	0	1	1	0	2	3	3	2	3						3	2	27	0	0	1	0	1	1	1			0	3	0	3	1	1	1					3	2	18
70	19251A02 70	1	0	0	0	1	0	0	1	0	0				1	1	2	3						3	2	15	0		0	1	0	1				1	3	0		0	2	3					3	2	16
71	19251A02 71	0	0			1	0	0	0	0	0	1	0	2	0	0	2			2				3	2	13	0	1	0	0	0	1	1	0	0	0	3	2	2	1	2	1			3	3	2	22	
72	19251A02 72	1	1	1	0	1	1	1	1	0	1	2	0	2	2	1	2							3	2	22	1	0	0	0	0	1	1	1	1	1	1	3	2	3	1	3					3	2	23

73	19251A02 73	1				1	1	0	1			2	0	2		2	1				3	2	16	0	0	0	1	1	0			1	1	3		4	2	3				3	2	21		
74	19251A02 74	1	1	1	0	1	1	1	1	0	1	2	3	2	2	2					3	2	26	0	0	0	0	0	0	0	0			3	1	5			4			3	2	18		
75	19251A02 75	0	1	1	0	1	1	1	1	0	0	2	3	2	2	2			3	2	3	2	29	0	0	0	0	0	1	1	0	1	0	3	2	3	1	2	5			3	2	24		
76	19251A02 76	1	1	1	0	1	1	1	1	0	0	2	1			3	2			3	2	3	2	25	0	0	0	0	1	1	0	0		1	3	2	3	0	2	1			3	2	19	
77	19251A02 77	1	0	1	0	1	1	0	1	0	0	1	0	0	1	1	2				3	2	15	0	0	0	0	0	0	0	0			3	0				1	1	1	3	2	11		
78	19251A02 78	1	0	1	0	1	1	0	1	0	0	2		2	1	1	1				3	2	17	0			0	0	1			0	1					1	2	1		3	2	11		
79	19251A02 79	1	1	1	1	1	1	0	1	0	0	2	3			3	2	5			3	2	27	1		1		1				0	3	1	3		2				3	2	17			
80	19251A02 80	1		1	0	1	1	0	1	1	0	2	0	2	2	1	2				3	2	20	0	0	0	0	0	1	1	0	0	1	2	1	2			1			3	2	14		
81	19251A02 81	1	0	0	1	1		1	1	1	0	2	1	2	2	3	1				3	2	22	0				1				1	3	1	4			3			3	2	18			
82	19251A02 82	1	1	1	0	1	1	1	1	0	1	2	3	2	2	3	2	1				3	2	28	1	0	0	0	1	1	1	0	0	1	3	1	3	1	2	4			3	2	24	
83	19251A02 83	1	1	1	0	1	1	0	0	0	0	2	0	1	1	0	2	1	0	1	3	2	18	0	0	0	0	0	1	0	0	0	1	3	0	0	0	1	1				3	2	12	
84	19251A02 84	1		1	0	1	0	1	0		0	2	0	2	0	2					3	2	15	0		0	0	0	1		0	0										3	2	6		
85	19251A02 85	1	1	1	0	1	1	1	1	0	0	2	1	2	1	0	2				3	2	20	1	0	0	1	1	1	1	1	1	1	1	3	2	3	2	2				3	2	25	
86	19251A02 86	1	1	1	0	1	0	1	1	0	0	2	0	2		0	2				3	2	17	0		0	0	1	0	0			0	3	0	1		2				3	2	12		
87	19251A02 87	1	1	0	0	1	0	0	0	0	0	2	3	2	1	1	1				3	2	18	1		0	0	1	1				1	3	1	3	1	2				3	2	19		
88	19251A02 88	1	1	1	0	1	1	0	1	0	0			2	2	3	2	5			3	2	25	1	0		1	1		1				3	1	3	0	2	1			3	2	19		
89	19251A02 89	1	1	0	0	1	1	0	1	1	0			2	1	3	2	1	2	2	3	2	24	1	0	1	1	1	1	0	0		1	3	2	4			4			3	2	24		
90	19251A02 90	1		0	0	1	0	0	1	0	0	1	0	2	1	3	2				3	2	17	0	0	0	0	0	0			0	2	0	2			2			3	2	11			
91	19251A02 91	1	1	0	0	1	1	1	1	0	0				3	2	1	2	2		3	2	21	0	0	1	0	1	0	1	0	0	1	3	1	2			2			3	2	17		
92	19251A02 92																						0																			0				
93	19251A02 93	1	1	1	0	1	1	1	1	0	1	2	2	2	2	1	2	1				3	2	25	0	0	0	0	1	1	0	0		1	3		3	1	2	2			1	3	2	20

94	19251A02 94	1	1	1	0	1	1	1	0	0	1	1	2	2	1	2	2														3	2	22	1	0	0	1	1					1	3	2	2	0	2	3					3	2	21		
95	19251A02 95	1	1	0	0	1	0	1	0	0	0	2	1	2	2	1	1														3	2	18	1	0	0	0	1	0					1	2	0	2	0	2	2					3	2	16	
96	19251A02 96	0	1	1	0	1	1	1	0	0	0	2		1		1														3	2	14	0	0	0	0	1	1		0	0									2	1	1		3	2	11		
97	19251A02 97	1	1	0	0	1	0	0	0	0	0	2	0	1	1	3	1													3	2	16	0	0	0	0	0	1	0					0	3	1	3	0	2	3					3	2	18	
98	19251A02 98	1	0	1	0	1	1	0	1	0	1	2	2		1	2	3													3	2	21	1	0	0	0	1	1	1					1	3	2	3		2	2					3	2	22	
99	19251A02 99	1			0	1	1	0	1	1	0	2	0	2		3	2													3	2	19	0	0	0	0	0	0					1			1		2	1					3	2	10		
100	19251A02 A0	1	0	0	0	1	0	1	0	0	0	1	0	1	1		1					1								3	2	13	1	0	0	0	1	0	0	0	1	1	3	2	3	2	2					3	2	21				
101	19251A02 A1	1	1	1	0	1	1	0	1	0	0	1	0	1	1	2	1													3	2	17	0	0	0	0	1	0					1	3	0	3	0	2	3					3	2	18		
102	19251A02 A2	1	1	1	0	1	1	1	0	0	0	2	0	2	2	2	2													3	2	21	0	0	0	0	0	0	0	0	0			1	3	1	2	0	2	3	0				3	2	17	
103	19251A02 A3	0	1	1	0	1	1	1	1		1	1	0	2	2	3	2													3	2	22	1				1	0							1	3	1		0	2	4					3	2	18
104	19251A02 A4	1	1	0	0	1	1	1	0	0	1			2	1	1	2	2	2	2										3	2	23	0	0	0	0	1	1	0	0	0	1	3	0	3	0	2	4					3	2	20			
105	19251A02 A5	1	1	1	0	1	0	1	0	0	1	1	0	2	2	2	1													3	2	19	0	0	0	0	0	0	0	0	0	0	0	1			3	0	0	1					3	2	10	
106	19251A02 A6	1	1	0	0	1	1	0	1		0	1	0	2		2	1													3	2	16	0	0	0		0	0	0					0	2	0	0				0				3	2	7	
107	19251A02 A7	0		0	0	1	0	0				2	0	1	0		0	1												3	2	10	0			0		0							2	0	1	0	0						3	2	8	
108	19251A02 A8	1		0	0	1		1	1	0	0	2	0	1	1		2	1												3	2	16	0			0	0	0	0		0			1	1	0			2	1	1				3	2	11	
109	19251A02 A9	1	1	0	0	1	1	0	1	0	1	2	2	2	2	1	2													3	2	22	1	0	0	0	0	0	0					1	3	0	2			2						3	2	14
110	19251A02 B0	1	0	1	0	1	0	1	1	1	1	2	0	2	1	0	1													3	2	18	0	0	0	0	0	1	0	0	0	0	0	2					0	2	1					3	2	11
111	19251A02 B1	1		1	0	1	1	1	1	0		2	2	2	1		1													3	2	19	0	0	1	0	1	0	1	1	1	1	0	3			2			2	3	3				3	2	20
112	19251A02 B2																													3	2	5	0		0		0	0					0		0		1	2						3	2	8		
113	19251A02 B3	1	0	0	0	1	1	0	1	0	1	2	0	2	1	0	2													3	2	17	0			0	0	1						1	3	0		0	2	1					3	2	13	
114	19251A02 B4	1	1	1	1	1	1	1	1	0	1	2	1	2	2	3	2	5												3	2	36	0	0	0	0	1	1	0	0	0			1	3	2		2	3	5					3	2	23	

115	19251A02 B5	1	0	0	0	1	0	1	1	0	0	2	0	2	0	0	2	0	3	2	15	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	3	2	9	
116	19251A02 B6																			0																	0					
117	19251A02 B7	1		0	0	1	1	0	1	0	0		2	1	0	1	1		3	2	14	1		0	0	0	0		1	2	0		2	3			3	2	14			
118	20255A02 01	1	1	1	1	1	1	0	0	1		2	3	2	3	3	2		3	2	27	1	1	1	1	1	1	1	1	0	0	1	3	2	5		3		3	2	26	
119	20255A02 02	1	1	1	1	1	1	0	1		2	2	2	3	3	2		3	2	26	1	1	1	0	1	1	0	1	1	3	2	2				2	2	3	2	24		
120	20255A02 03	1		1	0	1	1	1	0	0	1		2	2	1	1	2	2	3	2	21	1	0	1	1	0	1	0	0		1	3	2		3	2		3	2	20		
121	20255A02 04	1	1	0	1	1	1	1	1	0	1	1	3	2	2	0	2		3	2	23	1	1	1	1	0	0		0	0	1	3	1		0		2		3	2	16	
122	20255A02 05	1	1	1	1	1	1	1	1	1	2	3	2	3	3	2		3	2	29	1		1	1	1	1	1			1	3	1	5		3			3	2	24		
123	20255A02 06	1	1	1	0	1	1	1	0		2	2	2	3	3	2		3	2	25		1	1	1	1	1	0	1	1	3			3		2		3	2	20			
124	20255A02 07	1	0	1	1	1	1		1	1	0	1	3	2	0	3	2		3	2	23				1	1	0			1	3	2		2	4			3	2	19		
125	20255A02 08	1	0	0	0	1	1	0	0	0	0	2	3	1	2	3	2		3	2	21	1	0	1	0	1	1	0			1	3	0	5	0	2			3	2	20	
126	20255A02 09	1	1	1	1	1	1	1	1	1	1	2	1	2	2			3	2	27	0	0	0	0	1	1	1	0	0	0	3	1	4		3			3	2	19		
127	20255A02 10	1	1	1	1	1		0		1	1	2	3	2	3	3	2		3	2	27	0		1		1	1	0			1	3		5	0	2			3	2	19	
128	20255A02 11																		3	2	5	0	0	1	0	1	1	1	0	0	1	3	1	5	0	2			3	2	21	
129	20255A02 12	1	1	1	1	1	1	1	1	1	1	2	0	2	2	3	2	1		3	2	27	0		0	0	1	1				0	3		5	0	2			3	2	17

3.2.2.e Analysis of Student

- Students performance can be analysed based on their attempts and marks obtained for each exam question.
- Mapping of attempted questions to course outcomes allows for an assessment of students proficiency in achieving the intended learning outcomes.
- Overall performance can be evaluated by considering the total

marks obtained by each student across all attempted questions.

- Targets defined for the course PSA is as shown in table 3.2.2.6.

Table 3.2.2.6 Defined targets for PSA course

Target: CO1	60%
Target: CO2	60%
Target: CO3	60%
Target: CO4	60%
Target: CO5	60%
Target: CO6	60%

- Continuing the assessment of student 19251A0203, she achieved a score of 18 out of 21 marks in CO1, meeting the target value as her score exceeds 60%.

- Therefore, the designation Y signifies that the target has been achieved.
- However, in CO4, she obtained 5 marks out of 11 for the questions attempted.
- Since the target for CO4 is 60%, and she did not meet this threshold, the designation N is assigned.
- Empty cells in the table 3.2.2.7 indicates that the student didn't attempt any question related to the course outcome.

Table 3.2.2.7 Student analysis table for the attainment of each CO in internal assessment

Sno	COs mapped	C402.1			C402.2			C402.3			C402.4			C402.5			C402.6		
		Roll No.	O	T	OM/TM ≥Target	O	T	OM/TM ≥Target	O	T	OM/TM ≥Target	O	T	OM/TM ≥Target	O	T	OM/TM ≥Target	O	T
1	19251A0201	16	22	Y	3	6	N	2	2	Y	5	11	N	9	10	Y	2	2	Y
2	19251A0202	14	22	Y	8	11	Y	2	2	Y	12	13	Y	8	8	Y	1	1	Y
3	19251A0203	18	21	Y	4	5	Y	2	2	Y	5	11	N	8	10	Y	2	2	Y
4	19251A0204	21	22	Y	5	6	Y	2	2	Y	12	13	Y	11	11	Y	3	3	Y
5	19251A0205	14	22	Y	4	6	Y	2	2	Y	6	10	Y	6	8	Y	5	7	Y
6	19251A0206	14	18	Y	0	0		2	2	Y	4	10	N	7	11	Y	2	2	Y
7	19251A0207	11	19	N	3	4	Y	2	2	Y	0	7	N	7	11	Y	2	3	Y
8	19251A0208	19	22	Y	4	6	Y	2	2	Y	12	13	Y	12	13	Y	2	4	N
9	19251A0209	12	22	N	3	6	N	2	2	Y	2	5	N	7	13	N	2	4	N
10	19251A0210	19	22	Y	4	4	Y	2	2	Y	10	15	Y	6	7	Y	3	3	Y
11	19251A0211	22	22	Y	8	11	Y	2	2	Y	13	13	Y	12	13	Y	2	4	N
12	19251A0212	17	22	Y	4	4	Y	2	2	Y	12	13	Y	12	13	Y	2	4	N
13	19251A0213	16	19	Y	5	6	Y	2	2	Y	5	13	N	10	11	Y	2	4	N
14	19251A0214	21	22	Y	4	5	Y	2	2	Y	11	13	Y	12	13	Y	2	4	N
15	19251A0215	20	22	Y	6	6	Y	2	2	Y	12	15	Y	8	13	Y	2	4	N
16	19251A0216	10	16	Y	2	3	Y	2	2	Y	3	6	N	13	15	Y	2	2	Y
17	19251A0217	3	3	Y	0	0		2	2	Y	4	9	N	10	13	Y	2	2	Y
18	19251A0218	20	22	Y	6	6	Y	2	2	Y	6	8	Y	11	16	Y	3	3	Y
19	19251A0219	14	16	Y	2	10	N	2	2	Y	0	1	N	6	6	Y	2	3	Y
20	19251A0220	15	22	Y	5	6	Y	2	2	Y	4	11	N	10	13	Y	3	4	Y
21	19251A0221	12	17	Y	9	11	Y	2	2	Y	11	13	Y	13	16	Y	3	4	Y
22	19251A0222	15	14	Y	6	3	Y	2	2	Y	12	12	Y	11	15	Y	3	3	Y
23	19251A0223	11	22	N	5	6	Y	2	2	Y	3	8	N	11	16	Y	2	4	N
24	19251A0224	20	22	Y	5	6	Y	2	2	Y	14	15	Y	12	16	Y	2	4	N
25	19251A0225	3	3	Y	0	0		2	2	Y	4	4	Y	3	3	Y	7	8	Y

26	19251A0226	17	19	Y	2	2	Y	2	2	Y	1	2	N	11	14	Y	4	4	Y
27	19251A0227	18	22	Y	5	6	Y	2	2	Y	5	6	Y	8	12	Y	6	7	Y
28	19251A0228	10	17	N	8	11	Y	2	2	Y	10	12	Y	11	16	Y	2	4	N
29	19251A0229	13	17	Y	6	11	N	2	2	Y	9	14	Y	6	8	Y	2	2	Y
30	19251A0230	11	16	Y	7	9	Y	2	2	Y	12	13	Y	9	10	Y	2	3	Y
31	19251A0231	9	9	Y	3	4	Y	2	2	Y	12	14	Y	9	11	Y	3	4	Y
32	19251A0232	12	18	Y	0	2	N	2	2	Y	5	11	N	10	11	Y	2	4	N
33	19251A0233	20	22	Y	5	6	Y	2	2	Y	14	15	Y	11	14	Y	2	2	Y
34	19251A0234	21	22	Y	5	5	Y	2	2	Y	10	13	Y	10	11	Y	9	9	Y
35	19251A0235	16	17	Y	10	11	Y	2	2	Y	11	13	Y	13	13	Y	4	4	Y
36	19251A0236	15	22	Y	2	4	N	2	2	Y	10	13	Y	7	13	N	2	4	N
37	19251A0237	14	22	Y	4	6	Y	2	2	Y	8	13	Y	10	11	Y	3	4	Y
38	19251A0238	9	16	N	4	4	Y	2	2	Y	9	13	Y	10	10	Y	3	3	Y
39	19251A0239	16	22	Y	4	6	Y	2	2	Y	11	13	Y	10	11	Y	2	4	N
40	19251A0240	6	9	Y	2	3	Y	2	2	Y	0	3	N	11	14	Y	2	4	N
41	19251A0241	19	22	Y	9	11	Y	2	2	Y	12	13	Y	14	16	Y	3	4	Y
42	19251A0242	20	22	Y	5	5	Y	2	2	Y	11	13	Y	9	11	Y	3	4	Y
43	19251A0243	14	17	Y	8	11	Y	2	2	Y	10	13	Y	11	13	Y	3	4	Y
44	19251A0244	21	22	Y	6	6	Y	2	2	Y	2	3	Y	15	16	Y	4	4	Y
45	19251A0245	21	22	Y	6	6	Y	2	2	Y	3	13	N	16	16	Y	4	4	Y
46	19251A0246	17	20	Y	1	3	N	2	2	Y	8	11	Y	7	12	N	2	2	Y
47	19251A0247	16	22	Y	5	6	Y	2	2	Y	0	0		12	15	Y	4	5	Y
48	19251A0248	8	17	N	4	4	Y	2	2	Y	4	8	N	13	16	Y	3	4	Y
49	19251A0249	16	22	Y	5	6	Y	2	2	Y	13	13	Y	10	11	Y	2	4	N
50	19251A0250	12	14	Y	8	11	Y	2	2	Y	5	6	Y	11	14	Y	2	4	N
51	19251A0251	20	22	Y	5	6	Y	2	2	Y	3	8	N	11	16	Y	2	4	N
52	19251A0252	16	22	Y	4	5	Y	2	2	Y	13	15	Y	9	11	Y	2	4	N
53	19251A0253	7	11	Y	6	12	N	2	2	Y	8	12	Y	8	10	Y	2	2	Y
54	19251A0254	17	22	Y	4	6	Y	2	2	Y	10	13	Y	10	12	Y	2	3	Y
55	19251A0255	3	3	Y	0	0		2	2	Y	10	12	Y	10	12	Y	3	4	Y
56	19251A0256	3	3	Y	0	0		2	2	Y	10	11	Y	9	9	Y	3	4	Y
57	19251A0257	16	17	Y	9	12	Y	2	2	Y	2	2	Y	14	16	Y	9	9	Y
58	19251A0258	17	22	Y	4	6	Y	2	2	Y	8	8	Y	12	15	Y	2	2	Y
59	19251A0259	11	22	N	4	6	Y	2	2	Y	11	13	Y	8	10	Y	3	3	Y

60	19251A0260	12	17	Y	10	11	Y	2	2	Y	8	13	Y	10	13	Y	3	4	Y
61	19251A0261	15	21	Y	2	5	N	2	2	Y	4	5	Y	10	14	Y	2	2	Y
62	19251A0262	21	22	Y	5	6	Y	2	2	Y	8	15	N	6	11	N	2	4	N
63	19251A0263	13	22	N	2	6	N	2	2	Y	8	14	N	9	15	Y	2	4	N
64	19251A0264	14	22	Y	5	6	Y	2	2	Y	5	10	N	6	12	N	2	4	N
65	19251A0265	13	22	N	4	6	Y	2	2	Y	10	14	Y	12	15	Y	3	3	Y
66	19251A0266	3	3	Y	0	0		2	2	Y	3	7	N	3	8	N	2	2	Y
67	19251A0267	16	17	Y	10	11	Y	2	2	Y	13	15	Y	9	11	Y	3	4	Y
68	19251A0268	17	22	Y	4	6	Y	2	2	Y	4	6	Y	10	15	Y	2	2	Y
69	19251A0269	17	22	Y	8	11	Y	2	2	Y	8	15	N	7	15	N	3	3	Y
70	19251A0270	7	15	N	6	11	N	2	2	Y	3	9	N	11	15	Y	2	2	Y
71	19251A0271	6	20	N	5	9	N	2	2	Y	9	15	Y	7	16	N	6	7	Y
72	19251A0272	15	22	Y	5	6	Y	2	2	Y	10	15	Y	9	11	Y	4	4	Y
73	19251A0273	9	13	Y	5	9	N	2	2	Y	9	13	Y	10	11	Y	2	2	Y
74	19251A0274	19	22	Y	5	6	Y	2	2	Y	9	13	Y	7	11	Y	2	4	N
75	19251A0275	18	22	Y	9	11	Y	2	2	Y	9	15	Y	12	16	Y	3	4	Y
76	19251A0276	14	17	Y	9	11	Y	2	2	Y	8	15	N	9	15	Y	2	4	N
77	19251A0277	9	22	N	4	6	Y	2	2	Y	3	8	N	4	11	N	4	9	N
78	19251A0278	12	19	Y	3	6	N	2	2	Y	0	1	N	8	16	N	3	4	Y
79	19251A0279	16	17	Y	9	11	Y	2	2	Y	9	12	Y	6	8	Y	2	2	Y
80	19251A0280	13	21	Y	5	6	Y	2	2	Y	5	13	N	6	13	N	3	4	Y
81	19251A0281	17	22	Y	3	5	Y	2	2	Y	8	11	Y	8	10	Y	2	2	Y
82	19251A0282	20	22	Y	6	11	N	2	2	Y	9	15	Y	12	16	Y	3	4	Y
83	19251A0283	10	22	N	6	16	N	2	2	Y	3	15	N	7	16	N	2	4	N
84	19251A0284	10	18	N	3	5	Y	2	2	Y	0	2	N	4	10	N	2	3	Y
85	19251A0285	14	22	Y	4	6	Y	2	2	Y	11	15	Y	10	11	Y	4	4	Y
86	19251A0286	12	19	Y	3	6	N	2	2	Y	4	12	N	6	10	Y	2	3	Y
87	19251A0287	14	22	Y	2	6	N	2	2	Y	9	14	Y	8	10	Y	2	2	Y
88	19251A0288	14	17	Y	9	11	Y	2	2	Y	8	14	N	8	13	Y	3	3	Y
89	19251A0289	12	17	Y	10	16	Y	2	2	Y	11	13	Y	11	12	Y	2	4	N
90	19251A0290	12	21	N	3	6	N	2	2	Y	4	13	N	5	12	N	2	2	Y
91	19251A0291	10	12	Y	9	16	N	2	2	Y	7	13	N	7	13	N	3	4	Y
92	19251A0292	0	0		0	0		0	0		0	0		0	0		0	0	
93	19251A0293	17	22	Y	6	11	N	2	2	Y	7	13	N	10	15	Y	3	7	N

94	19251A0294	15	22	Y	5	6	Y	2	2	Y	8	14	N	11	15	Y	2	2	Y
95	19251A0295	14	22	Y	2	6	N	2	2	Y	5	15	N	9	15	Y	2	2	Y
96	19251A0296	9	13	Y	3	6	N	2	2	Y	0	2	N	7	16	N	4	5	Y
97	19251A0297	12	22	N	2	6	N	2	2	Y	7	15	N	9	15	Y	2	3	Y
98	19251A0298	11	17	Y	8	11	Y	2	2	Y	9	13	Y	10	15	Y	3	3	Y
99	19251A0299	12	17	Y	5	6	Y	2	2	Y	1	8	N	7	15	N	2	2	Y
100	19251A02A0	8	19	N	3	8	N	2	2	Y	11	15	Y	8	11	Y	2	4	N
101	19251A02A1	12	22	N	3	6	N	2	2	Y	6	15	N	10	15	Y	2	2	Y
102	19251A02A2	15	22	Y	4	6	Y	2	2	Y	6	15	N	9	15	Y	2	6	N
103	19251A02A3	15	22	Y	5	5	Y	2	2	Y	5	8	Y	11	14	Y	2	2	Y
104	19251A02A4	10	17	N	11	16	Y	2	2	Y	6	15	N	12	16	Y	2	4	N
105	19251A02A5	14	22	Y	3	6	N	2	2	Y	3	10	N	5	16	N	2	4	N
106	19251A02A6	11	19	N	3	5	Y	2	2	Y	2	13	N	3	6	N	2	5	N
107	19251A02A7	6	17	N	2	9	N	2	2	Y	3	13	N	3	8	N	2	2	Y
108	19251A02A8	10	18	N	4	10	N	2	2	Y	1	6	N	7	16	N	3	5	Y
109	19251A02A9	15	22	Y	5	6	Y	2	2	Y	6	13	N	6	12	N	2	3	Y
110	19251A02B0	12	22	N	4	6	Y	2	2	Y	2	8	N	7	16	N	2	4	N
111	19251A02B1	14	18	Y	3	5	Y	2	2	Y	6	8	Y	5	8	Y	9	9	Y
112	19251A02B2	3	3	Y	0	0		2	2	Y	1	6	N	5	9	N	2	2	Y
113	19251A02B3	10	22	N	5	6	Y	2	2	Y	3	8	N	8	15	N	2	2	Y
114	19251A02B4	19	22	Y	15	16	Y	2	2	Y	7	10	Y	14	16	Y	2	4	N
115	19251A02B5	10	22	N	3	11	N	2	2	Y	0	10	N	7	16	N	2	4	N
116	19251A02B6	0	0		0	0		0	0		0	0		0	0		0	0	
117	19251A02B7	8	16	N	4	11	N	2	2	Y	3	6	N	9	15	Y	2	3	Y
118	20255A0201	20	22	Y	5	5	Y	2	2	Y	13	13	Y	10	11	Y	3	4	Y
119	20255A0202	20	22	Y	4	4	Y	2	2	Y	10	13	Y	7	8	Y	7	9	Y
120	20255A0203	12	19	Y	7	11	Y	2	2	Y	7	8	Y	11	15	Y	2	4	N
121	20255A0204	16	22	Y	5	6	Y	2	2	Y	7	10	Y	7	13	N	2	3	Y
122	20255A0205	22	22	Y	5	4	Y	2	2	Y	11	12	Y	10	12	Y	3	3	Y
123	20255A0206	19	22	Y	4	4	Y	2	2	Y	4	4	Y	11	11	Y	5	6	Y
124	20255A0207	16	21	Y	5	6	Y	2	2	Y	5	5	Y	12	14	Y	2	3	Y
125	20255A0208	15	22	Y	4	6	Y	2	2	Y	10	15	Y	8	10	Y	2	3	Y
126	20255A0209	16	19	Y	9	9	Y	2	2	Y	8	13	Y	8	13	Y	3	4	Y
127	20255A0210	20	21	Y	5	5	Y	2	2	Y	9	12	Y	8	9	Y	2	3	Y

128	20255A0211	3	3	Y	0	0		2	2	Y	10	15	Y	8	11	Y	3	4	Y
129	20255A0212	18	22	Y	7	11	Y	2	2	Y	8	12	Y	7	10	Y	2	2	Y

3.2.2.f Course Outcome Attainment:

- By aggregating the marks obtained for questions mapped to each CO, the attainment level for each CO can be determined for individual students and the entire cohort.
- Table 3.2.2.8 shows the CO wise attained levels for the Course PSA. CO1, CO2, CO3, CO5, CO6 attained level 3, and CO4 attained level 1.
- These are based on the target levels.
- Level 1: If the 60 % of students attaining more than the target level.
- Level 2: If the 70 % of students attaining more than the target level.
- Level 3: If the 80 % of students attaining more than the target level.
- CO attainment % shows the number of students achieved more than the target/threshold level. CO attainment value indicates the average of attainment levels.

3.2.2.g CO wise attained levels for the course PSA in CIE

Course Outcome	C402	C402.1	C402.2	C402.3	C402.4	C402.5	C402.6
CO Attainment Level	3	3	2	3	1	3	2
CO Attainment %	76.67	80	70	100	60	80	70
CO Attainment Value	2.3	2.4	2.1	3	1.8	2.4	3

- Calculation of overall attainment of the course is based on direct attainment and indirect attainment.
- **Direct attainment of PSA course** is mentioned in detail in table 3.2.2.9 to get direct attainment, 70% weightage is considered from SEE and 30% weightage is considered from CIE.

3.2.2.h Direct attainment for Power System Analysis Course 2019-23 batch

Academic Year: 2022-2023		Course Number: C402		
Course Code: PC117EL				
SEE weightage: 70%		CIE weightage: 30%		
Course Outcomes	SEE	CIE	CO Direct attainment value 0.7* SEE+0.3* CIE	CO Attainment %
C402.1	3	2.4	2.82	94
C402.2	3	2.1	2.73	91
C402.3	2.7	3	2.79	93
C402.4	3	1.8	2.64	88
C402.5	3	2.4	2.82	94
C402.6	2.7	2.1	2.52	84
C402	2.9	2.3	2.72	90.67

Direct attainment achieved for the course PSA is 2.72 which is a contribution of level 2.9 from SEE and level 2.3 from CIE.

The above discussed sub sections are related to direct attainment of the course PSA. Indirect attainment of the same course is as follows.

Indirect attainment of the PSA course:

- A questionnaire is given as per the course outcome defined in the course.
- At the end of each course, survey is taken from each student to measure the understanding levels of student for a particular course in the scale of 1 to 3 defining low to high.
- Table 3.2.2.10 shows the sample questionnaire given for a course PSA.
- Survey responses are collected, and the average is calculated from the responses.
- The average of responses is tabulated as shown in table 3.2.2.11.
- This gives the survey report of students for the course end survey of power system analysis course.

Table 3.2.2.10 Sample questionnaire for indirect attainment survey

CO	Course Outcome Statement	Questionnaire_ Course exit Survey
C402.1	Develop Ybus , Zbus matrices for the power system networks.	How confident are you in your ability to develop Y bus and Z bus matrices for power system networks?
C402.2	Perform the load flow analysis of power system networks using Gauss Seidel, Newton-Raphson methods.	How confident are you in your ability to perform load flow analysis of power system networks using gauss-seidel and newton-Raphson methods?
C402.3	Analyze symmetrical and unsymmetrical faults in power system networks.	To what extent do you feel prepared to analyse symmetrical and unsymmetrical faults in power system networks
C402.4	Estimate the Transient and steady state Stability for single machine infinite system.	How confident are you in your ability to estimate the transient and steady-state stability for a single machine infinite system?
C402.5	Apply mathematical techniques/methods to solve economic load dispatch problems.	Do you feel equipped to apply mathematical techniques/methods to solve economic load dispatch problems?
C402.6	Model and analyse the single and two area Load frequency control systems for the control of frequency	How confident are you in your ability to model and analyze single and two-area load frequency control systems for frequency control?

Table 3.2.2.11 Indirect attainment of PSA course

Course Outcomes	CO Indirect Value	CO Attainment %
C402.1	2.104	70.13
C402.2	2.136	71.20
C402.3	2.04	68.00
C402.4	2.08	69.33

C402.5	2.624	87.47
C402.6	2.12	70.67
C402	2.18	72.80

Indirect attainment of the course PSA is level 2.18.

- Table 3.2.2.12 is detailed with direct attainment and indirect attainment of the course PSA is shown.
- Calculation shows that 80% of weightage is given to direct attainment and 20% of weightage is given to indirect attainment.
- From the tabulated data it shows that the attainment level for the course is achieved as level 2.

Table 3.2.2.12 Overall attainment of PSA course (C402)

Course Name (Code)	Power System Analysis (PC117EL)						Average Attainment
	C402.1	C402.2	C402.3	C402.4	C402.5	C402.6	
Direct attainment	2.82	2.73	2.79	2.64	2.82	2.52	2.72
Indirect attainment	2.10	2.14	2.04	2.08	2.62	2.12	2.18
CO Attainment Value (0.8*Direct+0.2*Indirect)	2.68	2.61	2.64	2.53	2.78	2.44	2.61
CO Attainment %	89.23	87.04	88.00	84.27	92.69	81.33	87.09
CO Attainment Level	3	3	3	3	3	3	3

- Course attainment is measured with 80% of direct attainment and 20% of indirect attainment.
- Final attainment is calculated as level **2.61**.
- In the similar procedure the calculation is made for all the courses in the program and the final attainment level of each course is as listed in table 3.2.2.13.

Table 3.2.2.13 Final attainment level of all courses for the batch 2019-23

S. No	Course Code	Course name	Final Level
1	C101	Physics	2.48
2	C102	Linear Algebra and Multivariable Calculus	2.22
3	C103	Programming for Problem Solving	2.47
4	C104	Engineering Graphics	2.48
5	C105	Engineering Workshop	1.97
6	C106	Physics Lab	2.06
7	C107	Programming Lab	2.03
8	C109	Chemistry	1.65
9	C110	Numerical Techniques and Transform Calculus	1.94
10	C111	English	2.36
11	C112	Basic Electrical Engineering	1.63
12	C113	Chemistry Lab	2.1
13	C114	English Professional and Communication Skills Lab	1.96
14	C115	Basic Electrical Engineering Lab	2.07
15	C116	Computational Mathematics Lab	2.1
16	C201	Mathematical Analysis	2.3
17	C202	Circuits Theory	2.26
18	C203	Analog Electronics	2.65
19	C204	Electrical Machines-I	2.72
20	C205	Electromagnetic fields	2.1
21	C206	Circuits Lab	2.74
22	C207	Analog Electronics lab	2.9
23	C208	Electrical Machines -I Lab	2.5
24	C210	Transform Techniques and Applications	2.58
25	C211	Material Science	2.9
26	C212	Digital Electronics	2.82
27	C213	Electrical Machines -II	2.25
28	C214	Power Systems-I	2.72
29	C215	Electrical Machines-II Lab	2.89
30	C216	Electrical Simulation Lab	2.89
31	C217	Digital Electronics Lab	2.89
32	C301	Managerial Economics and Financial Analysis	2.89

33	C302	Power Systems -II	2.4
34	C303	Control Systems	2.78
35	C304	Electrical Measurements & Instrumentation	2.25
36	C307	Open Elective-I (Fundamentals of Data Structure)	2.24
37	C308	Open Elective-I (JAVA Programming)	2.82
38	C312	Open Elective-I (Disaster Management)	2.89
39	C314	Electrical Measurements & Instrumentation Lab	2.89
40	C315	Control Systems Lab	2.89
41	C316	Employability and Soft Skills Lab	2.89
42	C317	Fundamentals of Management	2.75
43	C318	Microprocessors and Microcontrollers	2.72
44	C319	Power Electronics	2.48
45	C322	Electric & Hybrid Vehicles	2.56
46	C325	Open Elective-II (Database Management Systems)	1.7
47	C326	Open Elective-II (Behavioural Skills and Professional Communication)	1.5
48	C330	Microprocessors and Microcontrollers Lab	2.9
49	C331	Power Electronics Lab	2.9
50	C332	Seminar	2.74
51	C401	Power System Protection	2.91
52	C402	Power System Analysis	2.61
53	C403	Electric Drives	2.81
54	C404	Programmable Logic Controllers & Their Applications	2.7
55	C405	Electrical Distribution Systems	2.85
56	C406	Utilization of Electrical Energy	2.78
57	C408	Smart Electric Grid	2.81
58	C410	Python Programming	2.65
59	C413	Industrial Management (OE-3)	2.91
60	C414	Power Systems Lab	2.74
61	C415	Mini Project	2.7
62	C416	Project Phase-I	2.7
63	C417	Entrepreneurship and Project Management	2.9
64	C418	Grid Integration of Renewable Energy Systems	2.91
65	C423	Power Quality and FACTS	2.89
66	C428	Environmental Impact Assessment	2.9

67	C429	Project Phase-II	2.7
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3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

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

3.3.1. A. List of assessment tools & processes (5)

The assessment process are of two methods. Direct assessment method and indirect assessment method.

Tools and the methodology differ for direct assessment and indirect assessment methods.

i) Direct assessment tools:

- Internal Examinations (Theory)
- Assignments
- Semester End Examination (Theory)
- Laboratory Internal Evaluation (Practical)
- Laboratory External Examinations (Practical)
- Student Seminars
- Mini-Projects
- Major Projects

A.1 Continuous Internal Examinations (CIE) (Theory):

- Two continuous internal examinations are conducted for 30 marks each.
- The first internal examination will be conducted from 50 % of the syllabus and the second internal examination for the remaining 50% of the syllabus.
- In each of the internal examinations, subjective examinations will be conducted for 25 marks.
- Internal subjective examination consists of Part-A for 10 marks and Part-B (Subjective Type) for 15 marks with a duration of 2 hours.
- Part A consists of 10 questions with one mark for each question. (No choice in this section.)
- Part B contains 5 questions of which students must answer any 3 questions of 5 marks each.
- Students' performance in both the internal examinations will be considered for the internal marks, The average of both the internal examination marks will be considered as final internal marks.

A.2 Assignments:

- Assignment is given for each course for 5 marks evaluation and is a part of CIE.
- Each student must submit the assignment before the internal examination.
- Two assignments are given in a semester.
- Assignment questions follow the blooms taxonomy levels, course outcome mapping.
- Assignments can be given as quizzes, Seminars, Industry expert-based evaluations, Research Article based evaluations, etc. The course coordinator will fix any of the above corresponding to the course outcomes.

A.3 Semester End Examination (Theory)

- The semester end examinations are conducted for 70 marks.
- The question paper consists of Part-A (10 marks) and Part-B (60 marks).
- Part-A comprises of 5 sub questions of 2 marks each.
- All the questions of Part-A are mandatory.
- In Part-B, 2 questions will be given from each unit for 12 marks each and out of which only one question must be answered as internal choice.

A.4 Laboratory Internal Evaluation (Practical)

- The laboratory courses are evaluated continuously throughout the semester for internal assessment.

- The internal evaluation is done for 30 marks.
- Evaluation is based on.
 - Attendance and performance in the laboratory (5 marks)
 - Lab Observation submission after the experiment (5 marks)
 - Lab record evaluation (5 marks)
 - Viva (5 marks)
 - Internal examination at the end of the semester (10 marks)

A.5 Laboratory External Examinations (Practical)

- The external evaluation is done for 70 marks.
- The external practical examination will be conducted in the presence of an external examiner appointed out of two examiners nominated by the Head of the Department.

A.6 Seminars

- The Seminar Presentation is in III Year II Semester.
- The student gives a presentation on a technical topic and submits a technical report to the department.
- The Seminar presentation along with the technical report submitted, will be evaluated for 100 marks by two faculty members assigned by the Head of the Department.
- There is no semester end examination or external examination for the Seminar.

Project Work:

- The project work is assigned and carried out by a group of a maximum of four or five students.
- The students are encouraged to choose the topic of the project work in their own area of interest.
- They are also motivated to carry out work under the guidance of faculty in their research area.

A.7 Mini-Projects

- In III-year II, Semester, the students need to start the work for a mini-project.
- Continuous evaluation of the mini project is done throughout the semester by the allotted project guide/ supervisor.
- The final evaluation of the project will be done in IV year I Semester for **100 marks** by the committee.
- The committee constitutes external examiner, Head of the department, faculty supervisor of mini project and senior faculty members of the department.
- There are no internal marks awarded for the mini project.
- After completing the project, the department conducts a project demonstration wherein the students exhibit their project work which will be evaluated by the panel of judges.

A8. Major Projects

- The project work is divided and carried out in 2 phases: Phase-I in IV Year I Semester and Phase-II in IV Year II Semester.
- The student prepares two independent project reports. First report for the project work carried out under Phase-I and second report for Phase-II.
- Phase- I and phase- II of the project work will be evaluated for 100 marks each, 30 marks for continuous internal evaluation and 70 marks for semester end evaluation (viva-voce).
- For the project phase - I, the viva-voce will 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 senior faculty member and supervisor (no external examiner).
- Project Phase - II (or final project viva-voce) will 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.

ii. Indirect Assessment tools:

Details of indirect assessment tools are mentioned in table 3.3.1.A.

Table 3.3.1.A Indirect assessment tools

S. No.	Process Tools	Data collection procedure and scaling factor
1.	Surveys <ul style="list-style-type: none"> Graduate exit Survey Alumni survey Employer survey Parents survey 	Data collection is based on the responses given from each participant for the standard questionnaire to measure the PO/PSOs. Scaling is taken from 1 to 4.
2.	Student participation in Co-Curricular activity <ul style="list-style-type: none"> Value added courses. Internships 	Data is collected based on the no. of students participated in the different activities. Scaling is taken from 0 to 3.
3.	Student participation in Extracurricular activities <ul style="list-style-type: none"> NSS Sports 	Data is collected based on the no. of students participated in the different activities. Scaling is taken from 0 to 3.

3.3.1.B The quality/relevance of assessment tools/processes used (5)

- The Program Attainment for all the courses will be calculated including theory courses, practical courses, project work, seminars, and mini-project work.
- The detailed process of PO Attainment Calculation is explained in Figure 3.3.1.1.

3.3.1.b1 Direct assessment tools:

Table 3.3.1.1 is listed with the assessment procedures include internal theory exams and assignments, each conducted twice per semester, along with semester-end theory exams. Laboratory assessments, both internal and external, occur once per semester. Student seminars, mir offering comprehensive evaluation opportunities throughout the academic period. Figure 3.3.1.1 details the process of program outcomes and program specific outcomes.

Table 3.3.1.1 Assessment Tools and Evaluation Frequency

S. No	Assessment Tools	Assessment process	Frequency of Evaluation
1	Internal Examinations (Theory)	Theory exams with a weightage of 25 Marks each.	2 times per semester
2	Assignments	Each assignment carries 5 Marks.	2 times per semester
3	Semester End examination (Theory)	The SEE holds a weightage of 70 Marks.	Once in semester
4	Laboratory Internal evaluation	Continuous evaluation for 20 Marks and Internal Examination for 10 Marks.	Once in semester
5	Laboratory External Examinations	External examination carrying 70 Marks.	Once in semester
6	Student Seminars	Internal evaluation with a weightage of 100 Marks.	Once in a program

7	Mini -Projects	External evaluation for 100 Marks.	Once in a program
8.	Major Projects	Internal evaluation for 60 Marks (PP-1 and PP-2) and External evaluation for 140 Marks (PP-1 and PP-2).	Once in a program in two phases.

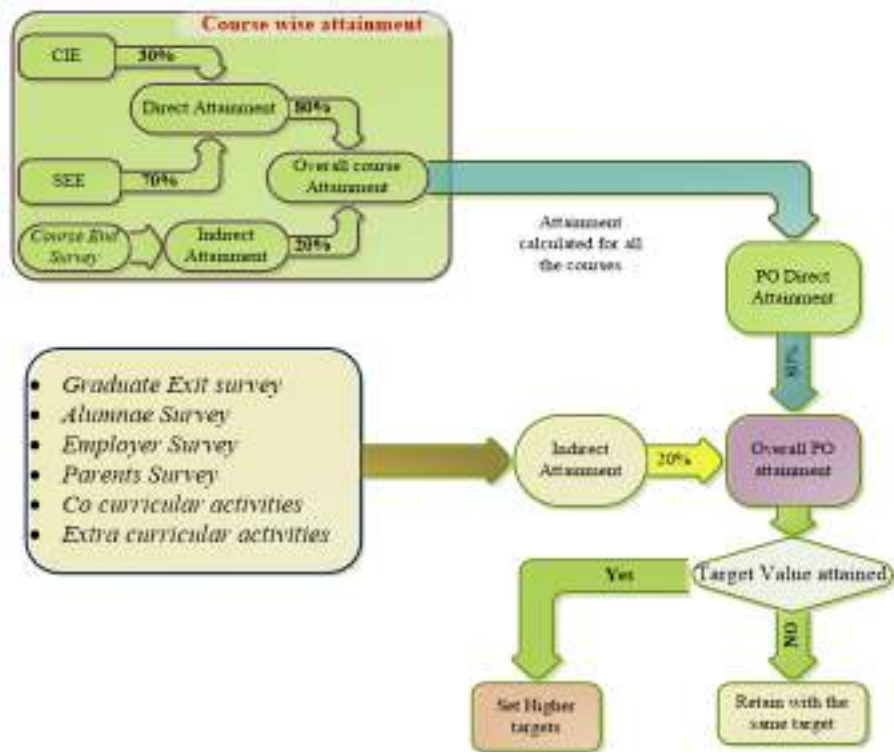
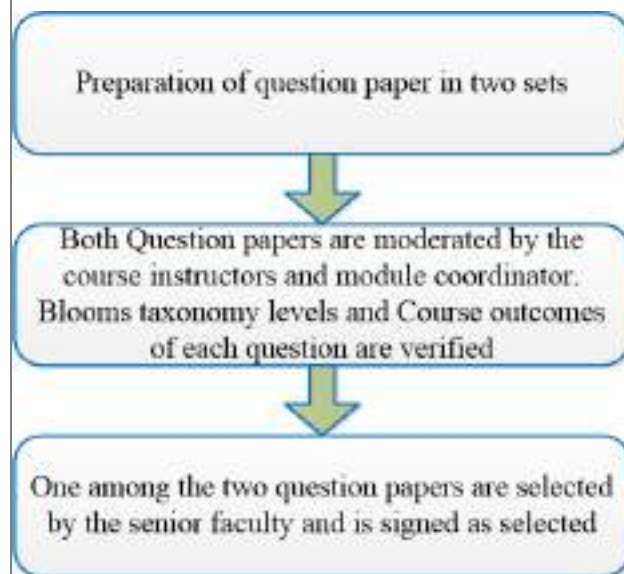


Figure 3.3.1.1: Program assessment process.

Internal Examinations (Theory): Two Internal examinations are conducted for every theory course in a semester and question papers are prepared by using blooms taxonomy and course outcome articulation.



Assignments:

- Assignment is a part of internal evaluation. Two assignments are given in a semester which is to be submitted for evaluation before the internal mid examination.
- Assignment questions follow the blooms taxonomy levels, course outcome mapping.

Semester End examination (Theory):

- Two sets of question papers for each course are prepared following Blooms taxonomy by external experts from reputed institutions like (NIT and Renowned institutions).
- The controller of examination allocates internal experts to moderate the question paper before the examination to maintain the curriculum content and to avoid conflict on examinations.
- Evaluation is carried out by the external experts with the scheme of evaluation prepared by the internal subject expert.

Laboratory examinations (SEE):

The practical sessions are assessed as follows.

- Write-up, circuit/ program code, experimental procedure **(20)**
- Connections, Conduction / design **(20M)**
- Calculations /Graphs / tabulation **(10M)**
- Result **(10M)**
- Viva voce **(10M)**

Laboratory examinations (CIE):

- The internal evaluation is done for 30 marks.
- Evaluation is based on.
 - Attendance and performance in the laboratory (5 marks)
 - Lab Observation submission after the experiment (5 marks)
 - Lab record evaluation (5 marks)
 - Viva (5 marks)
 - Internal examination at the end of the semester (10 marks)

Student Seminars:

The seminar is assessed concerning the course outcomes as follows.

- Selection of topic relevant to the core engineering
- Organization of the selected content and documentation
- Presentation & communication
- Evaluation of the Report

Note: Seminars are evaluated internal only for 100 M weightage.

Projects:

Mini projects (SEE only)

Major projects (CIE and SEE)

Rubrics are similar for both Mini and Major projects.

The Projects are assessed concerning the course outcomes as follows. Equal weightage is given for all the assessment criteria. 20% weightage is given for each component.

- Requirement analysis
- Literature survey
- Design
- Implementation.
- Project documentation

3.3.1.b2 Indirect assessment tools:

- The table 3.3.1.2 presents various assessment tools used for gathering feedback on the quality and relevance of the program.
- These tools include alumni surveys, exit feedback surveys, employer surveys, parent surveys, student course end surveys.
- Each tool involves collecting feedback through a structured questionnaire with questions rated from 0 to 4, aimed at assessing different aspects of the educational experience and program outcomes and program specific outcomes.
- The feedback is collected once every year.
- The questions in each survey form are based on program outcomes and program specific outcomes.

Table 3.3.1.2 Indirect attainment tools

S. No.	Process Tools	Data collection procedure and scaling factor
1.	Surveys <ul style="list-style-type: none"> • Graduate exit Survey • Alumni survey • Employer survey • Parents survey 	Data collection is based on the responses given from each participant for the standard questionnaire to measure the PO/PSOs. Scaling is taken from 1 to 5.
2.	Student participation in Co-Curricular activity <ul style="list-style-type: none"> • Value added courses. • Internships 	Data is collected based on the no. of students participated in the different activities. Scaling is taken from 0 to 3.
3.	Student participation in Extracurricular activities <ul style="list-style-type: none"> • NSS • Sports 	Data is collected based on the no. of students participated in the different activities. Scaling is taken from 0 to 3.

Table 3.3.1.3 Indirect assessment process of surveys

S. No	Assessment Tools	Assessment process
1	Alumni Survey	Feedback collected from alumni through a questionnaire consisting of 30 questions rated from 1 to 5.
2	Exit Feedback Survey	Feedback collected from outgoing students through a questionnaire comprising 12 questions rated from 1 to 5.
3	Employer survey	Feedback collected from employers through a questionnaire containing 15 questions rated from 1 to 5.
4	Parent Survey	Feedback collected from parents through a questionnaire consisting of 15 questions rated from 1 to 5.

Indirect attainment Questionnaire for surveys is shown using the images in figure 3.3.1.2

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(for women)
HYDERABAD - 500 104 :: Telangana State
(Approved by AICTE, New Delhi, Affiliated to JNT University Hyderabad)
Department of Electronics & Electrical Engineering

Alumni -Survey Questionnaire/ Attributes

A) Indicate the extent of 'your agreement/disagreement' with the following attributes related to your B.Tech. (EEE) Programme at GNITS, Hyderabad, on a 5 point scale

5 → Strongly Agree 4 → Agree 3 → Neutral/ No opinion 2 → Disagree 1 → Strongly Disagree by a TICK MARK (✓), against A1 to A15 items :

S No	Attribute / Item	Related PO/ PSO
A1)	The Programme gave sound knowledge of the engineering fundamentals and strong foundations in EEE Branch specialization courses, necessary at graduate level	PO1 PSO1
A2)	Appropriate combination of Theoretical Knowledge & Practical Skills in the Programme allowed clear understanding of engineering processes, and enabled offering correct analysis & effective solutions	PO2, PO3 PSO1
A3)	Programme was well structured and implemented to ensure problem solving ability in EEE related fields, enhancing the confidence levels of students	PO12 PSO2
A4)	Enough importance was given to design, verification and result analysis, using modern scientific tools, enabling present day technological needs	PO3 PSO1
A5)	Plenty of opportunities were provided to excel as individual and as group member, through academic exercises, mini-projects, co-/extra-curricular activities, and professional society events	PO 9, PO10 PO11 PSO1, PSO2
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	PO4 PSO1, PSO2
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	PO10, PSO2 PO8, PO12 PSO2
A8)	College ambience and Programme planning ensured good team collaborations, inculcated learning abilities with professional ethics and engineering practices in multi-disciplinary fields	PO4 PSO1, PSO2
A9)	The Programme gave ample scope for identifying complex engineering problems, and imparted knowledge to develop acceptable models & offer effective solutions	PO 3, PO5 PSO1, PSO2
A10)	Programme encouraged utility of modern engineering tools and sophisticated technologies to develop acceptable solutions for complex engineering problems in real life domain	PO7 PSO2

A11)	Programme on the whole, satisfied the needs of all women students - provided good career opportunities, and also enabled them to go for higher studies/research	PO12
A12)	The College campus was quite green and student friendly, with hygienic canteen food and pleasant hostel facilities and transport provisions	PO8
A13)	Safety and Security requirements for all girl students were excellent, and medical attention was as per needs	PO6
A14)	The Programme enabled GNITS students to realize their social responsibilities, and conduct successful events related to societal issues & regional development	PO12
A15)	Overall, the Programme met my expectations and I am happy to progress ahead with this successful graduation.	PO 4, PO2 PSO1, PSO2

B) Estimate your level of accomplishment/progress in your professional advancement after graduation, based on your Graduate Programme Study at GNITS (indicate the response by the lower case of alphabet listed), against B1 to B15 items :

S No	Item / feature	Related PO/ PSO
B1	Your Graduation at GNITS helped you in securing your first employment ... (a) Before Graduation (b) <6 Months After Graduation (c) 6 M to 1 Year After Graduation (d) >1 Year After Graduation (e) No Employment Still	PO 4, PO5 PSO1, PSO2
B2	How much 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	PO5
B3	What performance grade you got, in completing the Training Sessions related to your employment, within the specified period ? (a) Excellent (b) Good (c) Satisfactory (d) Need to Improve (e) NotApplicable	PO 3, PO4 PSO1
B4	Is your engineering programme knowledge helpful in solving technical problems at the organization ? (a) yes, to a Very Large Extent (b) yes, Very Much (c) to some extent (d) Very Little (e) Not much	PO5 PSO1
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 (NA)	PO 8, PO9 PSO1
B6	Your comfort level and acceptability - in performing the job functions as a group member or team lead, and as a follower of professional ethics, are... (a) Excellent (b) Good (c) Satisfactory (d) Need to Improve (e) NA	PO10 PSO2
B7	Your levels of Technical Presentation and Communication Skills are ... (a) Excellent (b) Good (c) Satisfactory (d) Average (e) Need to Improve	PO6 PSO2
B8	You have commendable participation in the conduct of professional and technological promotion events at your Organization, and your contributions made you happy ... (a) yes, to a Very Large Extent (b) yes, Very Much (c) to some extent (d) Very Little (e) Not much	PO12
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	PO12
B10	How many training programs have you attended (in related fields) during your employment? (a) >3 (b) 3 (c) 2 (d) 1 (e) None/ NA (Not Applicable)	PO11
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/ NA	PO12
B12	How many Projects you have successfully completed so far (as Lead or Member ? (a) >3 (b) 3 (c) 2 (d) 1 (e) None/ NA	PO11
B13	What additional qualifications/ certifications could you attain after your graduation ? (a) Doctoral Degree (b) Masters Degree (c) PG Diploma (d) Certificate Course (e) None	PO 7 PO9
B14	You could carefully plan and organize cultural/sports events or social meets at your organization, much to your personal satisfaction ... (a) yes, to a Very Large Extent (b) yes, Very Much (c) to some extent (d) Very Little (e) Not much	PO6
B15	Overall, you consider that your career progress and professional achievements are mainly due to	PO12, PSO1,

	your successful graduation programme at GNITS ... (a) yes, to a Very Large Extent (b) yes, Very Much (c) to some extent (d) Very Little (e) Not much	PS02
B16	State the nature of projects completed (a) Design & Development (b) Improved performance (c) Application of New Technology /Platform (d) Not applicable	PO11
B17	Have you qualified GATE / GRE / JEE / CAT / MAT /XAT? Qualified (b) Not Qualified	PO12

Parents -Survey Questionnaire/ Attributes

- 1) Indicate the extent of 'your agreement/disagreement' with the following attributes related to your ward's B.Tech. (EEE) Programme at GNITS, Hyderabad, on a 5 point scale
 5 → Strongly Agree 4 → Agree 3 → Neutral/ No opinion 2 → Disagree
 1 → Strongly Disagree by a TICK MARK (✓).

S.No	Attribute / Item	Related PO/ PSO
1)	We chose GNITS Women's College for my daughter, because of its Excellent Reputation in Academics and Placements, well-structured Programme Implementation, and instruction facilities	PS01, PSO2
2)	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 ...	PS01, PSO2
3)	Our visits to college campus were not necessary to monitor our daughter's progress, as enough care is taken through counselling and guidance ...	PO8
4)	Our satisfaction level with reference to the curriculum offered, laboratory equipment provided and modern scientific tools available, is excellent ...	PO3, PO5 PSO1
5)	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 ...	PO2 PO10
6)	GNITS has balanced co/extra-curricular activities, well planned technical/cultural events, encouraging professional society memberships, which were very much liked by our daughter ...	PO6 PSO2
7)	College has provided many opportunities for our ward to excel in Seminar/Technical Paper Presentations, Workshop Participations and Mini-Project Executions ...	PO4, PO11 PSO1, PSO2
8)	Excellent Training and Discussion Sessions are available at GNITS Campus, ensuring proper understanding/ orientation towards placements & career guidance ...	PO9, PO12 PSO2
9)	The College has a well-maintained campus with greenery, digital library, wi-fi provision, hygienic drinking water and canteen facilities ...	PO7
10)	We are very happy with the well maintained student transport/ hostel facilities, and excellent encouragement plus support for student participation in sports & games ...	PO8
11)	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 ...	PO6
12)	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 ...	PO7 PO8

13)	The College has adequate infrastructural facilities, well ventilated class-rooms and easily accessible good mannered faculty giving us enough satisfaction and superiority on admitting our daughter here ...	PO1
14)	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 ..	PO9 PSO2
15)	We are very much satisfied with our daughter's progress in the B. Tech. Programme, and we would like to recommend GNITS Graduation Programme study to our friends' relatives or any other contacts	PO12

Employer -Survey Questionnaire/ Attributes:

1) Indicate the extent of 'your agreement/disagreement' with the following attributes related to your employee studied B.Tech. (EEE) Programme at GNITS, Hyderabad, on a 5 point scale 5 → Strongly Agree 4 → Agree 3 → Neutral/ No opinion 2 → Disagree 1 → Strongly Disagree by a TICK MARK (✓),

S.No	Attribute / Item	Related PO/ PSO
1)	GNITS graduates have desire to learn, and are industry ready, as revealed by their creditable performances during training sessions and probationary period	PO2 PSO1
2)	GNITS graduates have the necessary theoretical and practical knowledge, and are successful in proving their problem solving abilities	PO1 PSO1
3)	They possess the required technical skills, programming abilities and are willing to work hard and contribute to the development of the Organization	PO3 PSO1
4)	GNITS women graduates perform equally well in individual capacities and as group members or technical lead, and assume responsibility for their actions and progress	PO4
5)	They have the ability to identify the industry needs, and model or design a system/ process using advanced tools to meet the technological constraints	PO4, PO5 PSO2
6)	They communicate effectively with peers, seniors, subordinates, clients and other stakeholders, and proactively engage in professional development	PO6, PO10 PSO2
7)	They exhibit good inter-personal relationships, and show their ability to work as a team in different social and technical environments following professional ethics	PO7, PO8 PSO2
8)	They have the yearn for continuous learning and thirst to excel in successfully completing their allocated projects and proceed to advanced level jobs	PO11, PO12
9)	Their interactive presence and contributions in workshops, technical meets and project/report presentations are well appreciated	PO11, PSO2
10)	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	PO12
11)	The overall performance of GNITS graduates in our Organization is excellent	PO9
12)	Performance levels of GNITS women graduates are appreciably better than their counterparts from other institutions	PO9
13)	We are happy to have GNITS graduates in our Organization and are willing to recruit more in future	
14)	They are aware of their social responsibilities and are equally enthusiastic in participating events	PO6

	related to societal issues and regional developments	
15)	How many GNITS women graduates are presently working with your Organization ?	

EXIT SURVEY OF OUT GOING STUDENTS(as a part of determination of attainment of **Program Outcomes**)

Note: The questions are to be answered on a 4 point scale to indicate the options as given below: **a) Strongly agree - 4b) Agree- 3 c) No opinion -2 d) Disagree -1**

The Questionnaire

Based on the

1. designed program curriculum
2. training undergone and
3. knowledge & skills acquired

during the 4 year graduate program in GNITS, I can

- 1) Solve moderately complex engineering problems by applying the core knowledge acquired. [PO1]
- 2) Identify, analyze and solve engineering problems to yield effective/ useful conclusions [PO2]
- 3) Apply these techniques in practical situations that arise from the specific needs such as public health, safety etc. [PO3]
- 4) Conduct investigations and interpret related data to provide valid conclusions by way of promoting my research skills. [PO4]
- 5) Use and apply modern tools to analyze, interpret and predict solutions to moderate engineering problems with a proper understanding of their limitations. [PO5]
- 6) Act or respond with social responsibility towards relevant societal, health, safety and cultural issues PO6
- 7) Demonstrate the need for and apply engineering solutions to conservation of environment for sustainable development. [PO7]
- 8) Follow professional ethics while executing projects which carry substantial importance for the benefit of society. [PO8]
- 9) Work effectively both as an individual, team member and team leader towards achieving the set goals. [PO9]
- 10) Communicate effectively with both experts and non-experts through oral interactions, documentary records and PPT presentations. [PO10]
- 11) Demonstrate the skills required to guide, design and manage project related to both engineering and multidisciplinary problems. [PO11]
- 12) Engage in both supervised and independent learning in the broadest context of technological changes that occur from time to time[PO12]
- 13) Analyze & demonstrate projects in relevant topics of Electrical & Electronics Engineering [PSO1]
- 14) Identify & solve problems in Electrical & Electronics Engineering for meeting industry requirements and / or for personality development of self. [PSO2]

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

A. Verification of documents, results, and level of attainment of each PO/PSO (50)

Table 3.3.2.1 lists out the mapping of each course to program outcome and program specific outcome and the contribution of each PO as per the curriculum GNR-18 and batch 2019-23 is as shown in figure 3.3.2.1.

3.3.2.1 Process for assessing the attainment of PO/PSO for direct attainment:

After the course attainment is obtained, each PO/PSO Attainment for a particular course is calculated by the following formula,

PO1 attainment for a particular course= (1/3) * CA * CL where,

CA = Course attainment of a particular course.

CL = Correlation level of PO1 for that course.

Same process is followed to obtain the attainments of other PO/PSO also for a particular course.

For model calculation, Program Articulation Matrix of the course power system analysis is shown in Table 3.3.2.A1 is taken. The average CO –PO Correlations of the course are given in the table.

Table 3.3.2.A1 Program articulation matrix of The course power system analysis

Course Name	Course Code	Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 0	PO 1	PO 2	PSO 1	PSO 2
C402	PC117EL	Power System analysis	2.83	2.33	1.8	2	2							3	2	2

The CO Attainment of the Course PSA, CA=2.68 (as calculated in **Table 3.2.2.12**), Then the PO attainment is calculated as

$$POA = (1/3) * 2.61 * [2.83 \ 2.33 \ 1.8 \ 2 \ 2 \ - \ - \ - \ - \ - \ - \ 3 \ 2 \ 2]$$

Then the PO Attainment is shown in table 3.3.2.A2

Table 3.3.2.A2 PO Attainment of the course power system analysis

Course Name	Course Code	Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 0	PO 11	PO 2	PSO 1	PSO 2
C402	PC117EL	Power System analysis	2.53	2.08	1.61	1.79	1.79							2.68	1.79	1.79

In similar procedure, the PO/PSO attainment of all the courses are calculated and, **PO/PSO Attainment table** is tabulated for all the courses of the programme is listed for 2019-23 batch in table 3.3.2.1.

3.3.2.2 Process for assessing the attainment of PO/PSO for indirect attainment:

- After collecting the responses from the participants in different surveys, average is taken for all the responses, and mapped the responses PO wise.
- The final average value is scaled to 3-point measurement.
- The same is tabulated in the table 3.3.2.2 mentioned below.
- In the table along with the survey co-curricular and extracurricular activities also tabulated with their mapping PO and PSOs.
- The average all tools of indirect attainment process is calculated.
- For extracurricular and co-curricular activities are concerned with, the attainment level is measured based on the students participation.
- **Level 3:** If the student participation is more than 30% from the total strength of the batch.
- **Level 2:** If the student participation is more than 20% from the total strength of the batch.
- **Level 1:** If the student participation is more than 10% from the total strength of the batch.

Table 3.3.2.1 List of courses with final attainment for the batch 2019-23

S. No	Course Code	Course name	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
1	C101	Physics	1.79	1.51	1.65	1.93	1.38	1.45	1.65						0.97	0.99
2	C102	Linear Algebra and Multivariable Calculus	0.74	1.48	2.22											1.48
3	C103	Programming for Problem Solving	1.81	1.81	1.81		1.65				0.82			1.65	1.03	1.03
4	C104	Engineering Graphics	1.65	0.83	1.24		1.65	1.65	1.38			1.65	1.45	1.10	0.83	0.83
5	C105	Engineering Workshop	1.31		1.31			1.20		0.77		0.87		0.66	0.99	0.99
6	C106	Physics Lab	1.20	1.26	1.26	1.37	1.03	1.20	1.37	2.06	1.72	1.37	0.69	2.06	0.69	0.69
7	C107	Programming Lab	1.47	1.49	1.49	0.68	1.35				0.95			1.35	1.35	1.02
8	C109	Chemistry	0.99	1.10	1.10	1.10	1.65	1.10	1.10					1.10	0.73	0.73
9	C110	Numerical Techniques and Transform Calculus	1.94	1.51	1.29	0.65										1.18
10	C111	English								2.36	2.36			2.36		1.05
11	C112	Basic Electrical Engineering	1.63	1.36	1.27	1.09								1.09	1.54	1.54
12	C113	Chemistry Lab	1.93	1.40	1.40	1.40	1.40	0.70							0.93	0.70
13	C114	English Professional and Communication Skills Lab				0.65				0.65	1.96	1.42				1.09
14	C115	Basic Electrical Engineering Lab	2.07	2.07	1.61	1.73									1.84	1.84
15	C116	Computational Mathematics Lab	1.63	1.63	1.98	1.40	1.40				0.70					
16	C201	Mathematical Analysis	1.92	1.79												1.40
17	C202	Circuits Theory	2.13	1.63	1.63	1.51	1.51	1.51	1.51				1.51	1.51	1.51	1.51
18	C203	Analog Electronics	2.65	2.65	1.77	1.77								2.65	1.77	1.77
19	C204	Electrical Machines-I	2.11	1.66	1.97										1.81	1.59
20	C205	Electromagnetic fields	1.40	1.40	0.93	1.05	0.70	1.40					1.40	1.40	2.10	2.10

21	C206	Circuits Lab	2.1 3	0.9 1	2.4 4	2.1 3		0.9 1			1.8 3	2.74			1.83	1.14
22	C207	Analog Electronics lab	2.9 0	2.9 0	2.5 8	2.4 2	0.9 7			2.9 0	2.9 0	2.90	1.93	2.90	2.90	0.97
23	C208	Electrical Machines -I Lab	2.0 0	1.1 1	1.6 7										0.83	0.83
24	C210	Transform Techniques and Applications	2.5 8	2.5 8							0.8 6	0.86				1.57
25	C211	Material Science	0.9 7	0.9 7				0.9 7	0.9 7	0.9 7		0.97		0.97		
26	C212	Digital Electronics	1.7 2	0.9 4	2.5 1	1.6 9	1.8 8		1.8 8	0.9 4	2.0 4	1.41	1.72	1.57	1.88	2.35
27	C213	Electrical Machines -II	2.2 5	2.0 0	2.1 2	2.1 2		1.8 8						1.35	2.25	2.25
28	C214	Power Systems-I	2.5 7	2.4 9	1.8 1			1.8 1	1.8 1				1.51	1.36	1.81	1.21
29	C215	Electrical Machines-II Lab	2.8 9	2.5 7	2.7 3	2.7 3		2.8 9			2.8 9	2.89		2.89	2.89	2.89
30	C216	Electrical Simulation Lab	2.2 4	2.1 2	1.7 6	1.9 3	1.9 3				2.8 9	2.89			1.61	1.45
31	C217	Digital Electronics Lab	1.5 4	1.9 3	2.3 1	1.9 3	2.5 0		1.9 3		2.1 2	1.93	2.12	2.12	2.89	1.93
32	C301	Managerial Economics and Financial Analysis			1.1 6	1.9 3			2.8 9		0.9 6	1.93	2.89	1.93		
33	C302	Power Systems -II	2.0 8	2.0 8	1.6 0	2.0 0		1.6 0	2.4 0					2.40	2.08	1.60
34	C303	Control Systems	1.6 2	1.7 0	1.6 2	0.9 3	2.0 4	2.3 2	2.0 9							1.85
35	C304	Electrical Measurements & Instrumentation	1.6 3	1.8 0	1.6 5									1.00	1.25	1.75
36	C307	Open Elective-I (Fundamentals of Data Structure)	1.9 4	1.7 4	1.7 9	1.3 1	1.3 1	1.4 9			1.7 4		0.75	1.64	1.87	1.12
37	C308	Open Elective-I (JAVA Programming)	1.8 8	1.8 8	2.8 2	1.7 2	1.8 8				1.8 8				1.88	
38	C312	Open Elective-I (Disaster Management)		1.9 3	2.2 4		1.9 3	1.4 5	2.5 7					0.96	0.96	0.96
39	C314	Electrical Measurements & Instrumentation Lab	2.0 9	2.3 1	2.1 2									1.28	1.61	2.24
40	C315	Control Systems Lab	1.2 8	1.5 4	1.5 4	0.9 6									1.16	1.16
41	C316	Employability and Soft Skills Lab		0.9 6						0.9 6	1.9 3	1.61		0.96		

42	C317	Fundamentals of Management						0.9 2	2.7 5		2.7 5	2.75		1.83		
43	C318	Microprocessors and Microcontrollers	1.3 6	1.8 1	0.9 1	2.7 2	1.3 6	2.7 2							1.59	1.36
44	C319	Power Electronics	2.2 1	2.4 8	2.4 8	0.8 3	2.3 4	1.5 1	1.6 5				1.38	0.83	1.51	1.51
45	C322	Electric & Hybrid Vehicles	2.5 6	2.2 8	2.5 6	2.5 6	2.5 6	2.5 6	2.5 6				2.56	2.56	2.56	2.56
46	C325	Open Elective-II (Database Management Systems)	1.2 3	1.1 3	1.2 5	0.8 5	1.1 3								1.13	1.13
47	C326	Open Elective-II (Behavioural Skills and Professional Communication)					1.5 0	1.0 0			1.5 0	1.50	1.00			
48	C330	Microprocessors and Microcontrollers Lab	1.4 5	1.9 3	2.5 8	0.9 7	1.9 3				1.9 3				1.69	1.45
49	C331	Power Electronics Lab	2.9 0	2.9 0	2.9 0		1.9 3	1.9 3					1.93	1.29	0.97	0.97
50	C332	Seminar	2.5 8	1.98	1.98	1.83	1.83	1.83	1.83			1.83	1.98	1.83	1.83	2.28
51	C401	Power System Protection	2.4 3	1.9 4	1.9 4	1.4 6	1.2 9	1.6 2	1.9 4				0.97	1.62	2.26	2.26
52	C402	Power System Analysis	2.5 3	2.0 8	1.6 1	1.7 9	1.7 9							2.68	1.79	1.79
53	C403	Electric Drives	2.8 1	2.3 4	1.6 9	1.4 1	0.9 4	0.9 4	1.4 1		0.9 4			0.94	1.87	1.87
54	C404	Programmable Logic Controllers & Their Applications	1.2 0	1.8 0	2.7 0	0.9 0	1.8 0									
55	C405	Electrical Distribution Systems	2.3 8	1.6 6	1.7 4	1.1 9	1.4 3		1.4 3			0.95	0.95	1.90	1.59	1.59
56	C406	Utilization of Electrical Energy	1.7 0	1.3 0	1.5 5	0.9 3									1.23	1.55
57	C408	Smart Electric Grid	1.2 5	1.3 1	1.2 5	1.3 1	1.8 7	0.9 4	1.1 2	1.8 7	0.9 4	0.94	1.87	0.94	1.17	1.41
58	C410	Python Programming	2.6 5	2.6 5	2.6 5	2.6 5	2.6 5	2.6 5					1.77	2.65	2.65	1.77
59	C413	Industrial Management (OE-3)						2.1 8	2.9 1		1.9 4	1.94	1.94	2.91		
60	C414	Power Systems Lab	2.2 8	1.3 7	2.2 8	0.9 1		2.7 4							0.91	
61	C415	Mini Project	2.4 8	2.4 0	2.1 0	2.0 3	1.2 0	0.9 0	0.9 0	0.9 0	1.5 8	1.58	1.80	0.90	2.70	
62	C416	Project Phase-I	2.7 0	2.7 0	2.2 5	1.8 0	1.8 0	1.8 0	1.8 0	2.7 0	2.4 0	2.70	1.50	2.40	2.70	2.70

63	C417	Entrepreneurship and Project Management						1.93	2.13		2.42	1.29	2.90	2.90		
64	C418	Grid Integration of Renewable Energy Systems	1.62	1.13	1.21	1.29	0.97	0.97	1.29		0.97		0.97	0.97	1.21	1.70
65	C423	Power Quality and FACTS	2.89	2.89	2.89	2.89	2.50	2.17						1.93	2.89	2.89
66	C428	Environmental Impact Assessment	1.29	1.21	2.25	1.93	1.93	1.93	0.97	1.21	2.18	0.97	1.93	0.97	0.97	0.97
67	C429	Project Phase-II	2.70	2.70	2.25	1.80	1.80	1.80	1.80	2.70	2.40	2.70	1.50	2.40	2.70	2.70
Total Number of Courses of mapped with each PO			58	59	57	47	39	37	28	12	29	26	26	44	51	55
Target Value for each PO			1.51	1.39	1.44	1.21	1.28	1.24	1.31	1.16	1.35	1.34	1.22	1.28	1.28	1.20
Direct Attainment			1.96	1.81	1.88	1.58	1.66	1.64	1.79	1.55	1.81	1.80	1.65	1.70	1.68	1.55

Table 3.3.2.2 Indirect attainment for the batch 2019-23

PO wise (Indirect) Attainment of 2019-23 Batch													
Program Outcome	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSC
Alumnae survey	2.57	2.56	2.50	2.40	2.32	2.50	2.45	2.49	2.44	2.53	1.80	1.95	2.4
Parents Survey	2.57	2.52	2.52	2.57	2.52	2.49	2.56	2.53	2.46	2.52	2.57	2.51	2.5
Employer survey	2.93	2.78	2.55	2.51	2.48	2.70	2.93	2.93	2.85	2.70	2.81	2.85	2.8
Exit Survey	2.55	2.57	2.51	2.51	2.50	2.58	2.59	2.58	2.65	2.65	2.63	2.58	2.6
Co Curriculum					3.00							3.00	3.0
Extra Curriculum								3.00	3.00	3.00			
Average	2.65	2.61	2.52	2.50	2.56	2.57	2.63	2.70	2.68	2.68	2.45	2.58	2.7

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

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C101-P	1.79	1.51	1.65	1.93	1.38	1.45	1.65	PO8	PO9
C102-LAMC	0.74	1.48	2.22	PO4	PO5	PO6	PO7	PO8	PO9
C103-PPS	1.81	1.81	1.81	PO4	1.65	PO6	PO7	PO8	0.82
C104-EG	1.65	0.83	1.24	PO4	1.65	1.65	1.38	PO8	PO9
C105-EW	1.31	PO2	1.31	PO4	PO5	1.20	PO7	0.77	PO9
C106-PL	1.20	1.26	1.26	1.37	1.03	1.20	1.37	2.06	1.72
C107-PRGL	1.47	1.49	1.49	0.68	1.35	PO6	PO7	PO8	0.92
C109-C	0.99	1.10	1.10	1.10	1.65	1.10	1.10	PO8	PO9
C110-NTTC	1.94	1.51	1.29	0.65	PO5	PO6	PO7	PO8	PO9
C111-E	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2.36
C112-BEE	1.63	1.36	1.27	1.09	PO5	PO6	PO7	PO8	PO9
C113-CL	1.93	1.40	1.40	1.40	1.40	0.70	PO7	PO8	PO9
C114-EPCS	PO1	PO2	PO3	0.65	PO5	PO6	PO7	0.65	1.96
C115-BEEL	2.07	2.07	1.61	1.73	PO5	PO6	PO7	PO8	PO9
C116-CML	1.63	1.63	1.98	1.40	1.40	PO6	PO7	PO8	0.70
C201-MA	1.92	1.79	PO3	PO4	PO5	PO6	PO7	PO8	PO9
C202-CT	2.13	1.63	1.63	1.51	1.51	1.51	1.51	PO8	PO9
C203-AE	2.65	2.65	1.77	1.77	PO5	PO6	PO7	PO8	PO9
C204-EM1	2.11	1.66	1.97	PO4	PO5	PO6	PO7	PO8	PO9
C205-EMF	1.40	1.40	0.93	1.05	0.70	1.40	PO7	PO8	PO9
C206-CL	2.13	0.91	2.44	2.13	PO5	0.91	PO7	PO8	1.83
C207-AEL	2.90	2.90	2.58	2.42	0.97	PO6	PO7	2.90	2.90
C208-EM1L	2.00	1.11	1.67	PO4	PO5	PO6	PO7	PO8	PO9
C210-TTA	2.58	2.58	PO3	PO4	PO5	PO6	PO7	PO8	0.86
C211-MS	0.97	0.97	PO3	PO4	PO5	0.97	0.97	0.97	PO9
C212-DE	1.72	0.94	2.51	1.69	1.88	PO6	1.88	0.94	2.04
C213-EM2	2.25	2.00	2.12	2.12	PO5	1.88	PO7	PO8	PO9
C214-PS1	2.57	2.49	1.81	PO4	PO5	1.81	1.81	PO8	PO9
C215-EM2L	2.89	2.57	2.73	2.73	PO5	2.89	PO7	PO8	2.89
C216-ESL	2.24	2.12	1.76	1.93	1.93	PO6	PO7	PO8	2.89

C217-DEL	1.54	1.93	2.31	1.93	2.50	PO6	1.93	PO8	2.12
C301-MEFA	PO1	PO2	1.16	1.93	PO5	PO6	2.89	PO8	0.96
C302-PS2	2.08	2.08	1.60	2.00	PO5	1.60	2.40	PO8	PO9
C303-CS	1.62	1.70	1.62	0.93	2.04	2.32	2.09	PO8	PO9
C304-EMI	1.63	1.80	1.65	PO4	PO5	PO6	PO7	PO8	PO9
C307-FDS	1.94	1.74	1.79	1.31	1.31	1.49	PO7	PO8	1.74
C308-JAVA	1.88	1.88	2.82	1.72	1.88	PO6	PO7	PO8	1.88
C312-DM	PO1	1.93	2.24	PO4	1.93	1.45	2.57	PO8	PO9
C314-EMIL	2.09	2.31	2.12	PO4	PO5	PO6	PO7	PO8	PO9
C315-CSL	1.28	1.54	1.54	0.96	PO5	PO6	PO7	PO8	PO9
C316-ESSL	PO1	0.96	PO3	PO4	PO5	PO6	PO7	0.96	1.93
C317-FM	PO1	PO2	PO3	PO4	PO5	0.92	2.75	PO8	2.75
C318-MPMI	1.36	1.81	0.91	2.72	1.36	2.72	PO7	PO8	PO9
C319-PE	2.21	2.48	2.48	0.83	2.34	1.51	1.65	PO8	PO9
C322-EHV	2.56	2.28	2.56	2.56	2.56	2.56	2.56	PO8	PO9
C325-DBMK	1.23	1.13	1.25	0.85	1.13	PO6	PO7	PO8	PO9
C326-BSPC	PO1	PO2	PO3	PO4	1.50	1.00	PO7	PO8	1.50
C330-MPMI	1.45	1.93	2.58	0.97	1.93	PO6	PO7	PO8	1.93
C331-PEL	2.90	2.90	2.90	PO4	1.93	1.93	PO7	PO8	PO9
C332-SEM	2.44	2.44	2.13	1.83	1.83	1.83	2.74	1.14	2.06
C401-PSP	2.43	1.94	1.94	1.46	1.29	1.62	1.94	PO8	PO9
C402-PSA	2.53	2.08	1.61	1.79	1.79	PO6	PO7	PO8	PO9
C403-ED	2.81	2.34	1.69	1.41	0.94	0.94	1.41	PO8	0.94
C404-PLC	1.20	1.80	2.70	0.90	1.80	PO6	PO7	PO8	PO9
C405-EDS	2.38	1.66	1.74	1.19	1.43	PO6	1.43	PO8	PO9
C406-UEE	1.70	1.30	1.55	0.93	PO5	PO6	PO7	PO8	PO9
C408-SEG	1.25	1.31	1.25	1.31	1.87	0.94	1.12	1.87	0.94
C410-PP	2.65	2.65	2.65	2.65	2.65	2.65	PO7	PO8	PO9
C413-IM	PO1	PO2	PO3	PO4	PO5	2.18	2.91	PO8	1.94
C414-PSL	2.28	1.37	2.28	0.91	PO5	2.74	PO7	PO8	PO9
C415-MINIF	2.48	2.40	2.10	2.03	1.20	0.90	0.90	0.90	1.58
C416-PP1	2.70	2.70	2.25	1.80	1.80	1.80	1.80	2.70	2.40

C417-EPM	PO1	PO2	PO3	PO4	PO5	1.93	2.13	PO8	2.42
C418-GIRE	1.62	1.13	1.21	1.29	0.97	0.97	1.29	PO8	0.97
C423-PQFA	2.89	2.89	2.89	2.89	2.50	2.17	PO7	PO8	PO9
C428-EIA	1.29	1.21	2.25	1.93	1.93	1.93	0.97	1.21	2.18
C429-PP2	2.70	2.70	2.25	1.80	1.80	1.80	1.80	2.70	2.40

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
Alumnae su	2.57	2.56	2.5	2.4	2.32	2.5	2.45	2.49	2.44
Parents Sur	2.57	2.52	2.52	2.57	2.52	2.49	2.56	2.53	2.46
co curricula	PO1	PO2	PO3	PO4	3	PO6	PO7	PO8	PO9
Extra currici	PO1	PO2	PO3	PO4	PO5	PO6	PO7	3	3
Employer S	2.93	2.78	2.55	2.51	2.48	2.7	2.93	2.93	2.86
Graduate E:	2.55	2.57	2.51	2.51	2.5	2.58	2.59	2.58	2.66

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
InDirect Attainment	2.66	2.61	2.52	2.50	2.56	2.57	2.63	2.71
Direct Attainment	1.96	1.82	1.89	1.58	1.66	1.64	1.82	1.52

PSO Attainment

Course	PSO1	PSO2
C101-P	0.97	0.99
C102-LAMC	PSO1	1.48
C103-PPS	1.03	1.03
C104-EG	0.83	0.83
C105-EW	0.99	0.99
C106-PL	0.69	0.69
C107-PRGL	1.35	1.02
C109-C	0.73	0.73
C110-NTTC	PSO1	1.18
C111-E	PSO1	1.05
C112-BEE	1.54	1.54
C113-CL	0.93	0.70
C114-EPCSL	PSO1	1.09

C115-BEEL	1.84	1.84
C116-CML	PSO1	PSO2
C201-MA	PSO1	1.40
C202-CT	1.51	1.51
C203-AE	1.77	1.77
C204-EM1	1.81	1.59
C205-EMF	2.10	2.10
C206-CL	1.83	1.14
C207-AEL	2.90	0.97
C208-EM1L	0.83	0.83
C210-TTA	PSO1	1.57
C211-MS	PSO1	PSO2
C212-DE	1.88	2.35
C213-EM2	2.25	2.25
C214-PS1	1.81	1.21
C215-EM2L	2.89	2.89
C216-ESL	1.61	1.45
C217-DEL	2.89	1.93
C301-MEFA	PSO1	PSO2
C302-PS2	2.08	1.60
C303-CS	PSO1	1.85
C304-EMI	1.25	1.75
C307-FDS	1.87	1.12
C308-JAVA	1.88	PSO2
C312-DM	0.96	0.96
C314-EMIL	1.61	2.24
C315-CSL	1.16	1.16
C316-ESSL	PSO1	PSO2
C317-FM	PSO1	PSO2
C318-MPMC	1.59	1.36
C319-PE	1.51	1.51
C322-EHV	2.56	2.56
C325-DBMS	1.13	1.13
C326-BSPC	PSO1	PSO2

C330-MPMCL	1.69	1.45
C331-PEL	0.97	0.97
C332-SEM	PSO1	PSO2
C401-PSP	2.26	2.26
C402-PSA	1.79	1.79
C403-ED	1.87	1.87
C404-PLC	PSO1	PSO2
C405-EDS	1.59	1.59
C406-UEE	1.23	1.55
C408-SEG	1.17	1.41
C410-PP	2.65	1.77
C413-IM	PSO1	PSO2
C414-PSL	0.91	PSO2
C415-MINIP	2.70	PSO2
C416-PP1	2.70	2.70
C417-EPM	PSO1	PSO2
C418-GIRES	1.21	1.70
C423-PQFACTS	2.89	2.89
C428-EIA	0.97	0.97
C429-PP2	2.70	2.70

PSO Attainment Indirect

Survey	PSO1	PSO2
Alumnae survey	2.45	2.48
Parents survey	2.58	2.52
Employer Survey	2.83	2.74
Graduate Exit Survey	2.64	2.56
Co curricular activities	3	3
Extra curricular activitie	PSO1	PSO2

PSO Attainment Level

Course
Direct Attainment
InDirect Attainment

4 STUDENTS' PERFORMANCE (100)

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)	128	129	129	120	120	120	120
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)	121	118	122	94	120	120	120
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	24	15	29	12	12	24
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	121	142	137	123	132	132	144

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successful completion	
		1 year	2 years
2023-24 (CAY)	121		
2022-23 (CAYm1)	142	72	
2021-22 (CAYm2)	137	62	68
2020-21 (CAYm3)	123	57	72
2019-20 (LYG)	132	81	80
2018-19 (LYGm1)	132	97	91
2017-18 (LYGm2)	144	91	101

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 per		
		I year	II year	
2023-24 (CAY)	121			
2022-23 (CAYm1)	142	115		
2021-22 (CAYm2)	137	120	130	
2020-21 (CAYm3)	123	93	119	119
2019-20 (LYG)	132	117	129	127
2018-19 (LYGm1)	132	120	130	130
2017-18 (LYGm2)	144	119	140	139

4.1 Enrolment Ratio (20)

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(
2023-24 (CAY)	128	121	94.53
2022-23 (CAYm1)	129	118	91.47
2021-22 (CAYm2)	129	122	94.57

Average [(ER1 + ER2 + ER3) / 3] : 93.52

Assessment : 20.00

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

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

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	132.00	132.00
Y Number of students who have graduated without backlogs in the stipulated period	79.00	82.00
Success Index [$SI = Y / X$]	0.60	0.62

Average SI [$(SI1 + SI2 + SI3) / 3$] : 0.58Assessment [$15 * \text{Average SI}$] : 8.70**4.2.2 Success rate in stipulated period (5)**

Item	Latest Year of Graduation, LYG (2019-20)	Latest Year of Graduation minus
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	132.00	132.00
Y Number of students who have graduated in the stipulated period	124.00	111.00
Success Index [$SI = Y / X$]	0.94	0.84

Average SI [$(SI1 + SI2 + SI3) / 3$] : 0.86Assessment [$5 * \text{Average SI}$] : 4.32**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)**

Academic Performance	CAYm1 (2022-23)	CAYm2 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	6.57	7.33
Total number of successful students (Y)	130.00	119.00
Total number of students appeared in the examination (Z)	135.00	122.00
API [$X * (Y/Z)$]	6.33	7.15

Average API [$(AP1 + AP2 + AP3)/3$] : 6.90Assessment [AverageAPI] : 6.90**4.4 Placement, Higher Studies and Entrepreneurship (30)**

Item	CAYm1(2022-23)
Total No of Final Year Students(N)	127.00
No of students placed in the companies or goverment sector(X)	98.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	5.00
No of students turned enterpreneur in engineering/technology (Z)	0.00
Placement Index [(X+Y+Z)/N] :	0.81

Average Placement [(P1 + P2 + P3)/3] : 0.78

Assessment [30 * Average Placement] : 23.30

Program Name : Electrical and Electronics Engineering
Assessment Year : 2022-23 (CAYm1)

S.No	Student Name	Enrollment No	Employee Name
1	AGRAHAR AKSHITHA	19251A0201	Freyr Energy Services Pvt. Ltd
2	A SREEJA	19251A0202	Deloitte
3	ANUMULA SUCHARITHA	19251A0203	Deloitte
4	ADIKICHERLA RAVALI	19251A0204	Visteon
5	AKKALA KEERTHANA	19251A0205	EY India
6	B VINDHYA	19251A0208	Capgemini
7	BAIRABOINA VARSHINI RAJ	19251A0211	Deloitte
8	BATTU RUPA SREE	19251A0213	Deloitte
9	BHORE NEHA	19251A0214	Capgemini
10	BOMMA RAVALI	19251A0215	Cognizant - GenC
11	CH SUPRAJA	19251A0218	Deloitte
12	CHITHARI MANJULA	19251A0219	Tata Technologies
13	D TEJASWINI	19251A0220	Cognizant - GenC
14	DAMERUPPULA ARCHITHA	19251A0222	Accenture
15	DINGARI SHRIYA	19251A0224	State Street
16	GRANDISILA SAHITHI	19251A0226	Cognizant - GenC
17	GOPARI HRUSHIKA	19251A0227	Deloitte
18	GOVALA SAI PRAVALLIKA	19251A0228	Accenture
19	GUDI SRIJA	19251A0229	Carrier Corporation
20	GUGGILLA NIKHITHA	19251A0231	EY India
21	KYAMA MANASWINI	19251A0232	Mindtree
22	KONAKALLA DEVAYANI CHAKRAVARTHI	19251A0235	Capgemini
23	MOCHARLA KUNDAN SHIVANI	19251A0236	Capgemini
24	MADASTU BINDHU	19251A0237	CGI
25	MADHAPURAM SMITHIKA	19251A0238	PWC
26	MALLEBOINA VENNELA	19251A0239	Dextara
27	NAINOLLA RAMYA SREE	19251A0240	PWC
28	NUKALA SHREEKRUTHI	19251A0241	Accenture
29	NALLA SREEJA REDDY	19251A0242	Carrier Corporation
30	NALLAGATLA SAHITHYA	19251A0243	JSW
31	NIMMALA CHINMAYEE	19251A0245	Carrier Corporation
32	S POOJA	19251A0248	PWC
33	SABAVATH TEJASHWINI	19251A0249	State Street

34	SHAIK ASHFIYA	19251A0251	Deloitte
35	SHAIK FAREEDA	19251A0252	PWC
36	VALLEM SUPRAJA RAO	19251A0257	Worley
37	VELAGAPALLI SHANTHI	19251A0259	Cognizant - GenC
38	AEDLA PRANEETHA	19251A0263	Deloitte
39	ALAMPALLY LASYA PRIYA	19251A0264	Deloitte
40	ANUSHA ENIGALLA	19251A0265	Cognizant - GenC
41	BOLLU RAJA RAJESHWARI	19251A0267	Deloitte
42	BOYINI LEELA MALVIKA	19251A0268	Deloitte
43	CHARITHA REDDY AMIREDDY	19251A0269	Micron
44	CHENNA HASINI	19251A0270	Deloitte
45	CHERUKUPALLI SUSHMA	19251A0271	CGI
46	GANDLA PRASANNA	19251A0273	Freyr Energy Services Pvt. Ltd
47	GINKALA VAISHNAVI	19251A0274	Cognizant - GenC
48	GOTTAM ASHRITHA	19251A0275	Deloitte
49	GUMMADI NIHARIKA GOUD	19251A0276	Capgemini
50	MEGHANA JADI	19251A0277	Jackson
51	JAINA NAVANEETHA	19251A0278	Accenture
52	JARAPLA NIHARIKA	19251A0280	Alstom
53	K ALEKHYA	19251A0281	Deloitte
54	KASARLA SUPRAJA	19251A0282	Deloitte
55	MAHENOOR TABASUM	19251A0286	Jackson
56	MAJJIGAPU KEERTHI	19251A0287	Capgemini
57	MANUBRAMHA HARSHITHA	19251A0288	EY India
58	MAREDDY KEERTHANA	19251A0289	State Street
59	MARIYAN INDHU SRI	19251A0290	Freyr Energy Services Pvt. Ltd
60	MARTHA THANUJA	19251A0291	Accenture
61	MUDUPU SATHVIKA REDDY	19251A0294	Cognizant - GenC
62	N MYTHRI	19251A0295	Capgemini
63	N SWETHA	19251A0296	Capgemini
64	VAISHNAVI NARRA	19251A0297	Micron
65	POLA SUSHMA	19251A0298	Deloitte
66	PETLOJ SWARNA PRIYA	19251A0299	PWC
67	PAANKHURI GUPTA	19251A02A0	Capgemini

68	PASUPULA PRIYANKA	19251A02A1	Deloitte
69	PEDDAPURAM PRIYA	19251A02A2	EY India
70	PS SAHASRA VAIISHNAVI	19251A02A3	UTS
71	PURUSHOTHAM AKHILA	19251A02A4	QualiZeal
72	RAYAPROLU SRI SOWMYA	19251A02A6	DXC Technology
73	SOFIA TAHREEM	19251A02B0	Mindtree
74	SOMAPANGU AAKANKSHA	19251A02B1	DXC Technology
75	TATAVARTHI BHAVYA	19251A02B3	Cognizant - GenC
76	THADISHETTI SHIVANI	19251A02B4	EY India
77	VARSHASRI MITTA	19251A02B5	Deloitte
78	VEMULA JUHITHA	19251A02B7	QualiZeal
79	AKHINAPELLI SINDHUJA	20255A0201	Ford, Product Development
80	VATTIKUTI SRUTHAKEERTHI	20255A0202	Cognizant - GenC
81	GONE CHANDANA	20255A0203	United Breweries
82	CHIRRA ANKITHA	20255A0204	Tata Technologies
83	AZMEERA DIVYA NAYAK	20255A0205	Worley
84	CHILUKU KAVERI	20255A0206	Stellantis
85	B INDHU	20255A0207	Prodapt
86	VADLAKONDA RAMYA	20255A0208	United Breweries
87	JOGULA.SRI CHANDANA	20255A0209	Deloitte
88	M AKHILA	20255A0210	Cognizant - GenC
89	GUPPA GAYATHRI	20255A0211	Worley
90	PEDURI SAI VANDANA	20255A0212	Deloitte
91	K AALAYA	19251A0234	Texas Tech University, Texas
92	M SNIGDHA REDDY	19251A0284	University of London
93	VEDALASYA SAI S	19251A0258	The university of Sydney
94	VYBHAVI G	19251A0272	New Jersey Institute of Technology
95	A BHAVANA	19251A0262	California State University, CA, USA
96	DOMA PRASANNA	19251A0221	Capgemini
97	DESHAM RISHITHA	19251A0223	Prodapt
98	GUDIMICHERLA JENNY PRAISE	19251A0230	Optum
99	NEELAMPALLI THANMAI	19251A0244	DXC Technology
100	PATAN ARSHIYA KHANAM	19251A0247	Optum, UHG
101	KETHAVATH SUNITHA	19251A0283	Prodapt

102	MACHARLA SIRI CHANDANA	19251A0285	Prodapt
103	MOGILI SRIHARSHITHA	19251A0293	PRODAPT

Assessment Year : 2021-22 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appo
1	ISLAVATHU LAKSHMIDEVI	18251A02A1	COGNIZANT	1976'
2	JANGAM NAVYA	18251A02A2	COGNIZANT	1976'
3	KASARLA SHRAVYA	18251A02A5	WIPRO	03.02
4	KOKKIRENI SAMANVITHA	18251A02A6	COGNIZANT	19927
5	KUNDARAPU ROHITHA	18251A02A7	ACCENTURE	C109
6	MEKALA SHIRISHA	18251A02A8	OPTUM	28.07
7	YUMBAR SRIKOUUDHI	18251A02B0	Telstra	22.06
8	P SAI KARUNA	18251A02B2	MINDTREE	22.04
9	POLEPALLY SHRAVYA	18251A02B4	ACCENTURE	C109
10	BEELA SOWNDARYA	18251A02C0	BOSCH	TN/56
11	SHAIK RESHMA	19255A0207	ACCENTURE	C109
12	KURMINDLA PRATHYUSHA	19255A0208	INFOSYS	HRD/
13	C BHAVANI	19255A0210	KAGOOL	01.08
14	D VASAVI KRISHNA	18251A0206	JNTU Hyderabad	22011
15	SREESHMA INTI	18251A0270	University of Michigan, Dearborn, USA	N003
16	SRIJA GOGINENI	18251A0228	Arizona State University	N003
17	A JEESHMA REDDY	18251A0231	University Missouri	N003
18	MEGHANA	18251A0220	Florida State University	N003
19	HARITHA	18251A0252	University of North Texas	N003
20	CIVARIPALLY SHARON BLESSY	18251A0295	New York Institute of Technology, new York	N003
21	UMA MAHESWARI	18251A02B7	University of Central Missouri	N003
22	AMUDALA KAVYA	18251A0201	OPTUM	28.07
23	ERROJU SRIVIDYA	18251A0202	DELOITTE	05.09
24	P MEGHANA	18251A0203	CGI	09.06
25	DUVVA SINDHU	18251A0207	AT&T	01.09
26	ETIKELA SAI NIKHITHA	18251A0208	HARMON	07.04
27	VISHWANA GOPALAPURAM	18251A0210	SOCIATE GENERALE	SG23
28	GUJJA HIMA BINDU	18251A0211	ACCENTURE	C 109
29	JERIPOTHULA MEGHANA	18251A0212	ACCENTURE	C 109
30	GADDAM SAKSHIKA REDDY	18251A0213	ACCENTURE	C 109
31	KARNTI SHRAVANI REDDY	18251A0214	CGI	09.06
32	KUNDHARAM PAVANI	18251A0217	ACCENTURE	C 109
33	MANAJIPETA SRI HARSHINI REDDY	18251A0218	ACCENTURE	C 109

34	NARAVARA GODHA	18251A0221	COGNIZANT	1976'
35	PASTHAM LAXMI CHANDANA	18251A0223	MINDTREE	12.04
36	SAMRIN SULTANA	18251A0224	OPTUM	11.08
37	SHEEMA FIRDOUS	18251A0225	DELOITTE	01.08
38	VASIPALLI SMILY	18251A0229	TCS	TCSL
39	CHATAKONDA PADMAVATHI	18251A0234	DELOITTE	05.09
40	GUNDEBOINA KEERTHANA	18251A0238	ACCENTURE	C 109
41	J SRIVIDYA	18251A0241	COGNIZANT	1976'
42	KALLAGUNTA MALLESHWARI	18251A0242	MEDTRONIC	5471'
43	KANTHI RAGHAVAPETA SINDHUJA	18251A0243	OPTUM	28.07
44	KATLA PRIYANKA	18251A0244	DELOITTE	05.09
45	KAVALI AKSHATHA	18251A0245	DELOITTE	01.08
46	KUNA SINDHURI	18251A0246	OPTUM	28.07
47	NAVYA MATHAIAH	18251A0247	KAGOOOL	01.08
48	MACHA SNEHA	18251A0248	STATESTREET	10.01
49	NADELLA GEETA KALYANI	18251A0249	ACCENTURE	C 109
50	NAGAPURI SAI SRUTHI YADAV	18251A0250	KAGOOOL	01.08
51	GATTU RAAJITHA	18251A0253	ACCENTURE	C 109
52	SRIRAMULA LAYASRI	18251A0255	OPTUM	11.08
53	UDARAPU GURUCHARANA	18251A0257	OPTUM	11.08
54	VADYALA KAVYA	18251A0258	COGNIZANT	1976'
55	VEMULAPALLIRISHITHA	18251A0259	ACCENTURE	C109
56	YATA YASHASVINI	18251A0260	HARMON	01.03
57	MOHAMMAD ANJUM THABASUM	19255A0201	WIPRO	26.01
58	P PRIYANKA	19255A0203	ACCENTURE	C109
59	ASARA SAI MANISHA	18251A0261	MEDTRONIC	5468'
60	BAYYA SAI SANDHIPHTA	18251A0263	MICRON	01.08
61	BOJI HARIKA	18251A0264	CARRIER	11.07
62	CHELMAL GOWRI NANDANA	18251A0265	ACCENTURE	C109
63	CHEELAMANTHULA.KEERTHANA	18251A0266	DELOITTE	01.08
64	CHIPPA ANJANI	18251A0267	COGNIZANT	1992'
65	DULAM SRUJANA	18251A0268	ACCENTURE	C109
66	GHUGULOTH SREEHARSHITHA	18251A0269	DELOITTE	01.08
67	INTI SREESHMA	18251A0271	ACCENTURE	C109

68	K SREEJA	18251A0274	ACCENTURE	C109
69	KALLURU NAVYA SREE	18251A0275	AT&T	08.08
70	KONDAPALLY SRINITYA	18251A0276	OPTUM	28.07
71	L VINITHA	18251A0278	STATESTREET	28.06
72	MAMILLAPALLY KEERTHI	18251A0279	ACCENTURE	C109
73	MEDA LIKITHA	18251A0280	STATESTREET	28.06
74	NUNE SAI SAMHITHA	18251A0282	AT&T	08.08
75	NOMULA ADITHI SAI	18251A0283	COGNIZANT	1992
76	POLADI DEEPIKA	18251A0284	ACCENTURE	C109
77	POLOJU MEGHANA	18251A0285	DELOITTE	05.09
78	THEEGALA MADHURI	18251A0286	ACCENTURE	C109
79	SHAIK RESHMA	18251A0287	CAPGEMINI	66211
80	TUMMALA BHUMIKA	18251A0288	ACCENTURE	C109
81	V SNEHA REDDY	18251A0289	ACCENTURE	C109
82	VANAM CHARITHA	18251A0290	COGNIZANT	1992
83	BASUTKAR GAUTAMI	18251A0291	MICRON	01.08
84	BANOTH SHYAMALA	18251A0292	BOSCH	TN/56
85	CHINTALAPALLY ARCHANA REDDY	18251A0294	PERSISTANT	Persi
86	CHILUMULA KANAKALATHA	18251A0296	JPMC	05.11
87	DEVIREDDY KAVYASRI	18251A0297	TCS	TCSL
88	GARDAS LAHARI	18251A02A0	SONATA	SSL/t
89	DAVULURI SINDHU SRITHA	18251A0205	IBM	13.02
90	GADDAM VINAYA	18251A0240	CAPGEMINI	6454
91	GAJAWADA SAIKEERTHANA	19255A0202	DELLOITTE	05.09
92	THOTA NAGA JYOTHI	19255A0204	CAPTS	01.08
93	SOMULA SAI GEETHA	19255A0205	ACCENTURE	C109
94	N RAJYA LAKSHMI	19255A0206	DELLOITTE	05.09
95	JALADANKI GREESHMA DEEPA	18251A0272	DXC	16.03
96	MANDHA LIKHITHA	18251A02A9	ACCENTURE	C109
97	NARA RAMYA	18251A02B1	COGNIZANT	1976
98	PATHLAVATH KAVYA	18251A02B3	DXC	16.03
99	POLOJU SHIRISHA	18251A02B5	ACCENTURE	C109
100	S JYOSHNA	18251A02B6	DXC	03.05
101	BATHULA SHAILAJA	19255A0209	TSPDCL	18.11

102	P NIKITHA SREE	18251A0222	Alabama University	N003
103	BAGIREDDY NAVYA MADHURI	18251A0233	Texas University	N003
104	JANDHYALA VYSHNAVI	18251A0273	BITS, Hyderabad	2023I
105	D SAMYUKTHA	18251A0236	SD CONSULTANCY PVT.LTD	20.11

Assessment Year : 2020-21 (CAYm3)

S.No	Student Name	Enrollment No	Employee Name
1	SNIKITHA BOMMENA	17251A0203	Deloitte
2	CHANDANA DAKURI	17251A0204	Unschool
3	DUMPETI SAI HARSHITHA	17251A0205	Service Now
4	GALIPELLI HARIKA	17251A0206	L&T TS
5	GODHADEVI GILAKATHULA	17251A0207	Colruyt
6	BHAVANI GUNDLAPALLY	17251A0208	Infosys
7	NAKSHATRA JILLOJU	17251A0209	Deloitte
8	LAVANYA KAMISHETTI	17251A0210	Zessta
9	LV SUDHA MANISHA	17251A0211	Accenture
10	DEEKSHA SREE LAVETI	17251A0212	Accenture
11	JOSHI MEGHANA	17251A0216	Accenture
12	BALA SAI PARVATHI MERGU	17251A0217	Deloitte
13	PARVATHANENI NIMISHA	17251A0220	Accenture
14	RANGAREDDY RUCHITHA	17251A0221	Accenture
15	SANKA SRIHITHA	17251A0224	Capgemini
16	SEEMA SHIRIN	17251A0225	TCS, Ninja
17	SOWDHARI RUCHITHA	17251A0227	Accenture
18	V CHANDANA SHIL	17251A0228	Deloitte
19	VARSHA SINGANNAGARI	17251A0229	Unschool
20	VEMULA VINEELA	17251A0230	Accenture
21	A SHIVANI	17251A0231	Accenture
22	AAKANKSHA NALAMATI	17251A0232	Deloitte
23	AKSHITA TIRMAL	17251A0233	Unschool
24	SIRI CHANDANA A	17251A0234	Unschool
25	PRIYANKA BATHARAJU	17251A0235	Accenture
26	GUNDAPU SAIVARSHINI	17251A0239	Accenture
27	INDHU NARRA	17251A0240	CGI
28	ANJALI INDRALA	17251A0241	Deloitte
29	KAMIDI KEERTHI	17251A0243	Infosys
30	MAHEEN FATHIMA	17251A0246	Accenture
31	SRAVANI REDDY MEDA	17251A0247	TCS, Ninja
32	SUCHITRA POOSA	17251A0250	Accenture
33	SAGGURTHI JAGADEESH NIKHITHA	17251A0253	L&T TS

34	ANUSHA SUDHIREDDY	17251A0255	Infosys
35	TABASSUM MOHAMMAD ABDUL	17251A0256	Accenture
36	THALAKOKKULA NAGASRI	17251A0257	Accenture
37	VANGARI BHAVANA	17251A0258	Infosys
38	SUNITHA YALAKAMANI	17251A0259	Accenture
39	ASHRITHA REDDY ADAVELLY	17251A0262	CGI
40	JHANSISANJANA ALISHALA	17251A0263	Wipro
41	NIKITHA ANASI	17251A0264	L&T TS
42	THAPASWI BOLISETTY	17251A0266	L&T TS
43	CHANDA RAJA RAJESHWARI	17251A0267	L&T TS
44	BHAVANA CH	17251A0268	L&T TS
45	SUVIDHA EMMADI	17251A0270	TCS, Ninja
46	GAANALOLA TANKASALA	17251A0271	L&T TS
47	SRI DEEPTHI GAJJELA	17251A0272	TCS, Ninja
48	PRAVALIKA GANDI	17251A0273	Accenture
49	K VANDANA PRIYA	17251A0274	Colruyt
50	VINISHA MARAMRAJU	17251A0275	TCS, Ninja
51	SRISUSHMA MADDIPATI	17251A0276	Accenture
52	PALEM MANASA	17251A0279	Deloitte
53	POTHULA LAXMI NANDITHA	17251A0281	Infosys
54	SAI MADHURI G	17251A0283	L&T TS
55	SUPRAJA GOUDA	17251A0286	Accenture
56	ANUPAMA TALARI	17251A0287	Sonata
57	V NISHITHA REDDY	17251A0288	Accenture
58	VANTERUVISHWAJAREDDY	17251A0289	L&T TS
59	BADUGULA AKSHAYA	17251A0293	TCS, Ninja
60	PRAVALIKA BATTU	17251A0294	L&T TS
61	BHAVANIBONALA	17251A0295	Accenture
62	NIKHILA BURAGONI	17251A0296	BOA
63	ITIKYALA MOUNA	17251A0298	Innominds
64	MANIDEEPA KANDUKURI	17251A0299	Accenture
65	SAICHARITHA KANKATI	17251A02A0	Accenture
66	SREE NIDHI KOMMINENI	17251A02A1	Infosys
67	LALASA KORIVI	17251A02A2	CGI

68	SITHAKOTA	17251A02A3	Infosys
69	K ASRITHA VATSALA	17251A02A4	BOA
70	DATHASRI KURMETI	17251A02A5	Accenture
71	PONNOJU NAGASHIRISHA	17251A02B4	L&T TS
72	PRAVALIKA M	17251A02B5	Cognizant
73	RUTHWIKA VELLANKI	17251A02C0	L&T TS
74	DODLAANITHA	18255A0208	CGI
75	NAVYASRIYEDLA	18255A0213	Accenture
76	HEMA KUMARI CHILUKA	18255A0218	Deloitte
77	SAISNEHA PALUVARI	18255A0219	L&T TS
78	P PREETHI REDDY	17251A02B6	Woxen University Kamkole, Sadasivpet, Hyderabad, Telangana
79	G VAISHANVI	17251A0290	University Of North Texas G. Brint Ryan College Of Business
80	M SARWANI	17251A02A6	International Institute Of Information Technology Gachibowli, Hyderabad
81	A.KEERTHI AZMEERA	17251A0292	School, Of Graduate Studies St.Cloudstate University 720 4th Avenue South St. Cloud, Minnesota
82	A.RAMYA SAI	17251A0265	University Of New Haven
83	HARSHITHA POLAGANI	17251A02B3	New England College
84	K.HRITIKA REDDY	17251A0245	The University Of Texas , Arlington
85	MVSSR SRI KRISHNA MANASA	17251A0213	Osmania University
86	SIRIJA NUKALA	17251A02B0	University Of Texas, Dallas
87	SHAIK NAFEEZ SALMA	17251A0284	University Of Connecticut
88	MONALISA CHOWDARY MANNE	17251A0261	New York Institute Of Technology
89	RUCHITHA SOWDHARI	17251A02A7	Lamar University
90	M Rachana	17251A0214	MBA KU
91	Sana	17251A0223	MSC UK
92	B Haripriya	17251A0202	M.Tech
93	K.SaiLekha	17251A0244	Cognizant
94	Ch.Haripriya	17251A0236	Amazon
95	N.Varshitha	17251A02A9	DXC
96	Ch.Supritha	18255A0201	Infosys
97	K.Srilaxmi	18255A0206	Wipro
98	T.Nafisa	18255A0212	Sri Ram Insurance

4.5 Professional Activities (20)

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

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

The following Professional Bodies / Chapters, organizing the various Technical Events to enhance the academic and professional developments of students in that field.

- a. ISTE Student Chapter
- b. IEEE Student Chapter
- c. The Institute of Engineers (India)
- d. Aarushi Energy Swaraj Club (AESC)

a. 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 ed 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

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 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 comr career development. Students of all the branches who join GNITS in the 1 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 cr 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 chapte 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.

Skill Enhancement: Focusing on both technical and soft skills crucial for career success.

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.

Research and Innovation: Promoting research projects and offering opportunities for publication.

Career Guidance: Facilitating job fairs, counseling services, and fostering community engagement.

Leadership and Soft Skills: Offering leadership opportunities and promoting teamwork.

Continuous Learning: Keeping students updated on the latest developments in their field through publications.



Fig 1. Technical Fest Flyer for 2021-22



Fig 3. ISTE Award

Fig 2. Technical Fest Flyer for 2019-20



Fig 4. Technical Fest 2022

b. 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 a global 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 of G. Narayanamma Institute of Technology and Science (GNITS) was established in 2018 and has been a great platform for students to learn, network, and grow in their respective fields.

Student Branch ID: GNITS STB 64991 Chapters of IEEE SB GNITS:

1. 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. It has 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.

2. 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 robotics, factory communications and automation, flexible manufacturing, data acquisition and signal processing, vision systems, and power electronics.

3. 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 a focus on 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.

4. Power Electronics Society (PELS) Chapter:

Date of Establishment: 28th April 2023 IEEE Power Electronics Society (PELS) organizes technical activities through its Technical Committees (TCs), which are active in all of the Society's activities and participate in activities such as the latest developments in intelligent and automation, flexible manufacturing, data acquisition and signal processing, vision systems, and power electronics.



Fig 5. IEEE Echo Summit 2023-24

c. The Institute of Engineers (India):

The Institute of Engineers- Student Chapter is a renowned club operating within Electrical and Electronics Engineering department at G. Narayanamma Institute of Technology and Science (For Women), offering a diverse range of technical and non-technical events. The club fosters innovation, and engage in collaborative learning experiences. To promote technical excellence, foster creativity, and cultivate a culture of innovation among GNITS students through a variety of events and activities.

Key Objectives:

- Provide a platform for students to showcase their technical prowess and innovative ideas.
- Organize workshops, seminars, and hands-on sessions to enhance technical skills.
- Encourage interdisciplinary collaboration and problem-solving.
- Foster leadership qualities and teamwork among members.
- Promote inclusivity by offering a diverse range of events catering to various interests and skill levels.

Events Offered:

- Technical Events: Tech Talks, Workshops, Power point Presentations, Poster Presentation, Guest lectures, Code debugging etc
- Non-Technical Events: Debate Competitions, Quiz Competitions, Organising Traditional day, JAM, Story Telling.

Achievements:

Consistently organized successful events with high participation rates. Received accolades for innovative event concepts and execution. Produced talented individuals who have excelled in technical competitions and secured internships or placements in reputed companies.

Conclusion:

The Institute of Engineers- Student Chapter stands as a vibrant hub of activity within GNITS, nurturing talent, fostering innovation, and enriching the overall academic experience for students.

Through its diverse range of events and activities, the club continues to inspire and empower the next generation of tech enthusiasts and leaders.

Academic Year 2023-24

The Technical Fest 2024-Electro Blitz was a dynamic platform that brought together intellectual minds, fostering innovation and technical prowess. With a focus on diverse technical topics, the event aimed to showcase the participants research, ideas, and analytical skills. It was organized by the **Aarushi Energy Swaraj Club (AESC)**

To create awareness about climate change and motivate all to take action to reduce climate change, Prof. Chetan Singh Solanki, IIT Bombay started the Energy Swaraj Foundation. As a part of creating awareness, the Energy Swaraj Yatra is started using Solar bus which is the part of climate change mitigation efforts. The Yatra is planned across the country starting from **November 2020 until December 2030, nearly 11 years long, to create Energy Swaraj as a public movement. As a part of Energy Swaraj Yatra, Prof. Chetan Singh Solanki along**

Motivation of the Club:

After the Visit of Prof. Solanki, Solar man of India, Energy Swaraj Club is initiated to spread the climate change awareness among the locals through GNITS on 16th March, 2022. Later it is named as Aarushi Energy Swaraj Club.

Vision: To create awareness about the climate change and motivate society towards energy conservation and achieve Energy independence by adopting Renewable based energy generation.

Mission: To Avoid the wastage of Energy, Minimise the usage of electricity, Generate the energy using Renewable energy sources to become energy independent.



Fig 6. Prof. Chetan Singh Solanki, IIT Bombay visit to GNITS

B. Events organized at Institute Level(2)**a. Events Organized at Institute Level under ISTE :**

Table 4.5.1.1: **Events organized under ISTE AY: 2022-2023 & 2021-22**

S.No	Academic Year	Technical Events	Number of participants
1	2022-23	Paper Presentation	15
		Poster Presentation	16
		Project Expo	20
		Quizony	29
		Young Engineer Award	1
2	2021-22	Paper Presentation	12
		Poster Presentation	6
		Project Expo	20
		Quizony	43
		Technoshot	2
		Young Engineer Award	1

b. IEEE Events**Table 4.5.1.2: No.of Events Organized Under IEEE Chapter**

S.No.	Academic year	No.of Events	No.of Participants
1	2023-2024	13	680
2	2022-2023	4	342
3	2021-2022	2	28
4	2020-2021	1	32

Table 4.5.1.3: Events Organized under IEEE Chapter for A.Y: 2023-24

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF EVENT	NUMBER OF PARTICIPANTS (EEE)
1	Wide bandgap power electronics and benefits of electrification in heavy duty vehicles	Brij N. Singh, Ph.D, Region 4 Manager External Relationships, Emerging tech in John Deere & Company, USA	20-12-2023	134

2	WiE Eco She Summit	1.Ms. Usha Paliath, Director of We Hub,	02-12-2023	41
		2.Dr Ramalatha Marimuthu, Director at iExplore Foundation for Sustainable Development,		
		3.Dr Umashankar Sahu, Chair, Photonics Society, IEEE Hyd Section,		
		4.Dr Somnath Pal, Chair, Reliability Society, IEEE Hyderabad Section,		
		5.Dr Atul Negi, Past Chair, IEEE Hyderabad Section, and Dean, UoH,		
		6.Mr.M.A.Jabbar, Secretary, IEEE Hyd. Section,		
		7.Global leaders :Dr Khanita Duangchaemkarn, Chair, IEEE R10 WIE, and Dr Celia Shanaz, Chair, IEEE WIE,		
		8.Dr. S. Harivardhagini, Chair of IEEE WIE AG, Hyd Section		
3	R10 PES India chapters annual global workshop	1.Nagaraja Ramappa, MD, PRDC, Bangalore	24-11-2023 To 25-11-2023	3
		2.Raghupathi N Cavale, Manipal University, Ex SVP, Infosys, Bangalore		
		3.S N Singh, Director, ABV IITM, Gwalior		
		4. Surekha Deshmukh, Domain Consultant, TCS,Pune		
4	Humanitarian visit to Radha Kishan balika bhavan	1.Dr.Himabindu.T, IEEE SB Counsellor, IEEE-IES Faculty Advisor,GNITS Student Branch, IEEE-IES Vice-Chair, Hyderabad Section	19-11-2023	2
5	Condition motoring using machine learning strategies	1.Dr. Amar Kumar Verma, Post Doctoral Fellow 2.Centre for Automotive research and Tribology (CART), IIT Delhi	01-11-2023	31
6	IEEE day celebrations	1.Mr. P. Bala Prasad, Past-Execom member, IEEE Hyderabad Section,Chief Innovation Officer and Global Head - Technology Advisory Services, Technology, Software and Services Business Group	19-10-2023	84
7	Industrial visit to ARCI- International advanced research on powder metallurgy and materials	1.Dr. Sanjay Bhardwaj, a Scientist G & Head CTAT, ARCI	03-10-2023	7
8	Latest trends in battery energy storage systems	2.Mr. B. Koti Reddy, Scientific Officer, Department of Atomic Energy, Heavy Water Plant(Manuguru)	25-09-2023	68
9	AI and Human Intelligence	1.Mr. Sai Kumar Tara, Chairman, Student Activities Committee, IEEE Hyderabad Section	15-09-2023	71
10	IEEE Benefits and resources	1.IEEE Alumnae: B. Rajeshwari Company: Deloitte, Role: RFA Associate QC Engineer . 2.Vaishnavi Ginkala Company: Capgemini Role: Analyst	10-08-2023	5

11	PELS Day- Electrical vehicles for e mobility- The Future- Battery- Fuel cell/powered	1.Dr. PV Rajgopal, B.Tech (Elec.), PGDM (Mrkt), Ph.D (IIT) Senior Member- IEEE & General Manager (Retd), BHEL/ Corporate R&D/ Hyderabad & Past Chair (2018 – 2020), PES/IAS/PELS- Jt. Chapter, IEEE-Hyderabad section, 2.Sanjib Kumar Panda, Associate Professor and Director of the Power & Energy Research Area, Department of Electrical and Computer Engineering, National University of Singapore, Singapore	16-06-2023	97
12	PELS Day	3.Dr.Himabindu.T, IEEE SB Counsellor, 4.Mrs.K.Swarna Latha, IEEE-PELS chapter advisor, GNITS SB	16-06-2023	73
13	PELS Day- Vidyouth'23	1.Dr. Renuka Methre, Professor, Dept. of ECE, GNITS	16-06-2023	64

Table 4.5.1.4: Events Organized under IEEE Chapter for A.Y: 2022-23

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NUMBER OF PARTICIPANTS
1	Opportunities on Being IEEE member and present industry requirements	Ms. Ramya Narendra, YP Chair, IEEE HYD Section 2022, Support Eng. II, Amazon	03-12-2022	108
2	A plug and play operational approach for implementation of an autonomous- micro-grid system	Sanjib Kumar Panda, Associate Professor and Director of the Power & Energy Research Area, Department of Electrical and Computer Engineering, National University of Singapore, Singapore	12-11-2022	214
3	Owasp- A Two day workshop	Ms. Sujatha Yakasiri, Founder of W3 –CS, Sr. Computer Scientist- Information security	20-06-2022 To 21-06-2022	15
4	Star program- ENKIDLING Career	Mr. AV Narayana Rao, Journalist, Andhra Jyothi, All India News Reader	15-03-2022	5

Table 4.5.1.5: Events Organized under IEEE Chapter for A.Y: 2021-22

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Webinar on digital wellness	1.Rijul Arora,Digital wellness advocate and speaker,3 times TEDX speaker 2.Ritom Gupta,full stack web developer 3.Rainar Angelo,Digital wellness advocate	26-09-2021	7
2	Webinar on gate way-an ultimate guideline to crack gate	1.Ms.Prathyusha Srisilla,GATE 2020 Score:798 &EC Rank:161 2.Ms.Amulya Pendota,GATE 2020 score:607 & EC Rank:1135 & IN Rank:1274	10-07-2021	21

Table 4.5.1.6: Events Organized under IEEE Chapter for A.Y: 2020-21

S.NO	Name of the event	Resource person	Date of the event	No. Of participants
1	IEEE Day celebrations- Coding Quiz	Dr.N.Malla Reddy, HOD-EEE	06-10-2020	32

c.The Institute of Engineers (India) Events:

Table 4.5.1.7: Events organized under IE(I) for Academic Year 2023-24

The Technical Fest 2024-Electro Blitz was a dynamic platform that brought together intellectual minds, fostering innovation and technical prowess. With a focus on diverse technical topics, the event aimed to showcase the participants research, ideas, and analytical skills. It wa

S.No	Date	Name	Roll No.	Name of the Event	Award/Prize
1	1-03-2024	J.Eesha	21251A0238	Paper Presentation	First Prize
2	1-03-2024	B Ashritha	21251A0235	Paper Presentation	Second Prize
3	1-03-2024	T.Tejasree	21251A02C0	Paper Presentation	Third Prize
4	1-03-2024	G.Nikitha T.Tejasre	21251A02A3 21251A02C0	Poster presentation	First Prize
5	1-03-2024	G. Poornima, K. Dhanalaxmi S. Surohitha Snigdha, V. Shruthi	21255A0201 21255A0212 23251A0559 23251A0563	Poster presentation	Second Prize
6	1-03-2024	B.Sowmya	20251A0216	Poster presentation	Third Prize
7	1-03-2024	k. Girija	21251A0214	Technical Quiz	First Prize
8	1-03-2024	Aayisha	21251A0201	Technical Quiz	Second Prize
9	1-03-2024	Sriharini	22255A0201	Technical Quiz	Third Prize
10	1-03-2024	M.V.S.N. Sai Aparna	21251A0248	Circuit simulation	First Prize
11	1-03-2024	K. Lavanya	21251A02A9	Circuit simulation	Second Prize
12	1-03-2024	K. Srivarsha T.Tejasree	23255A0209 21251A02C0	Circuit simulation	Third Prize
13	1-03-2024	S. Suchitra	21251A0227	Arts	First Prize
14	1-03-2024	V.Yaswitha	22255A0210	Arts	Second Prize
15	1-03-2024	S.Neha	21251A0256	Storytelling	First Prize
16	1-03-2024	A.Amulya	21251A0232	Storytelling	Second Prize
17	1-03-2024	A Amulya	21251A0232	JAM	First Prize
18	1-03-2024	K.Lavanya	21251A02A9	JAM	Second Prize

19	1-03-2024	Aiswarya, M. Jyothi, K.Yogitha, R. Devisri	22251A0215, 22251A0214, 22251A0243, 22251A0225	Treasure Hunt	First Prize
20	1-03-2024	M. Dhamanika P. Dheekshitha S. Deepika S. Sreenidhi A. Chandana	22251A02A8 22251A0276 22251A0282 22251A0284 22251A0292	Treasure Hunt	Second Prize



Fig 7.Paper Presentation in GNITS for Academic year 2023-24

Table 4.5.1.9: Events organized under IE(I) for Academic Year 2022-23

S.No	Date	Name	Roll No.	Name of the Event	Award/Prize
1	19-04-2023	SADADI SHRUTHI SOLLETI UJWALA	20251A0290 20251A0291	Paper Presentation	First Prize
2	19-04-2023	BOPANA LAHARI BANDI SOWMYA	20251A0227 20251A0225	Paper Presentation	Second Prize
3	19-04-2023	A AMULYA	21251A0232	Paper Presentation	Third Prize
4	19-04-2023	Y Sri Harini	22255A0201	Technical Quiz	First Prize
5	19-04-2023	Girija K	21251A0214	Technical Quiz	Second Prize

6		K Saikeerthana	22255A0413	Technical Quiz	Third Prize
7	19-04-2023	Sri vaishnavi D Akhila	21251A0234 21251A0237	Code Debugging	First Prize
8	19-04-2023	J Eesha C.Madhuri	21251A0238 21251A0210	Code Debugging	Second Prize
9	19-04-2023	B sowmya Sree	20251A0276	Arts	First Prize
10	19-04-2023	K.Girija	21251A0214	Arts	Second Prize
11	19-04-2023	A Sindhuja	20255A0201	Arts	Third Prize
12	19-04-2023	G Srinidhi	20251A0211	Storytelling	First Prize
13	19-04-2023	Poojitha	22255A0202	Storytelling	Second Prize
14	19-04-2023	G.Jhansi Lakshmi	20251A0235	Storytelling	Third Prize
15	19-04-2023	A Amulya	21251A0232	JAM	First Prize
16	19-04-2023	G.Nikhitha	21251A02A3	JAM	Second Prize
17	19-04-2023	K Keerthikiran Hafsa Shaik	21251A0276 21251A0255	JAM	Third Prize



Fig 8. Poster and Paper Presentation for Academic year 2022-23

Table 4.5.1.10: Events organized under IE(I) for Academic Year 2021-22

The **Technical Fest 2021-Electro Blitz** was a dynamic platform that brought together intellectual minds, fostering innovation and technical prowess. With a focus on diverse technical topics, the event aimed to showcase the participants research, ideas, and analytical skills. The

S.No	Date	Name	Roll No.	Name of the Event	Award/Prize
1	07-01-2022 and 08-01-2022	A Lasya Priya Vaishnavi Narra	19251A0264 19251A0297	Technical Paper Presentation	First Prize
2	19-04-2022	B Raja Rajeshwari N Sreeja Reddy Chinmayee	19251A0267 19251A0242 19251A0245	Technical Paper Presentation	Second Prize
3	20-11-2021	Keerthana	19251A0205	JAM	Third Prize
4	20-11-2021	Priya	19251A02A2	JAM	First Prize
5	20-11-2021	Priyanka	19251A02A1	JAM	Second Prize
6	17-07-2021	M Keerthana	19251A0289	Technical Essay Writing	Third Prize
7	17-07-2021	E.Anusha	19251A0265	Technical Essay Writing	First Prize
8	17-07-2021	M.Akhila	20255A0210	Technical Essay Writing	Second Prize
9	10-07-2021	Vybhavi G	19251A0272	Poster Presentation	First Prize

10	10-07-2021	Devayani C	19251A0235	Poster Presentation	Second Prize
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Fig 9. Inauguration of Technical Fest

Table 4.5.1.11: Events organized under IE(I) for Academic Year 2020-21

S.No	Date	Name	Roll No.	Name of the Event	Award/Prize
1	17-04-2021	Kasarla Supraja	19251A0282	Aptitude Test	First Prize
2	17-04-2021	Vennela malleboina	19251A0239	Aptitude Test	Second Prize
3	17-04-2021	Sathvika Reddy	19251A0294	Aptitude Test	Third Prize
4	10-04-2021	M Keerthi	18251A0279	Aptitude Test	First Prize
5	10-04-2021	K Samanvitha	18251A02A6	Aptitude Test	Second Prize
6	10-04-2021	Ch Keerthana	18251A0266	Aptitude Test	Third Prize
7	10-04-2021	Devayani Chakravarthy	19251A0235	Best out of Waste	First Prize
8	10-04-2021	Lasya Priya	19251A0264	Best out of Waste	Second Prize
9	10-04-2021	P S SAHASRA VAIISHNAV	19251A02A3	Best out of Waste	Third Prize
10	17-07-2021	M Keerthana	19251A0289	Technical Essay writing	First Prize
11	17-07-2021	E.Anusha	19251A0265	Technical Essay writing	Second Prize
12	17-07-2021	M.Akhila	20255A0210	Technical Essay writing	Third Prize
13	12-06-2021	Charitha Reddy. A	19251A0269	Just A Minute	First Prize
14	12-06-2021	Peddapypriya	19251A02A2	Just A Minute	Second Prize
15	12-06-2021	Anusha. E	19251A0265	Just A Minute	Third Prize
16	10-07-2021	Vybhavi G	19251A0272	Poster Presentation	First Prize

17	10-07-2021	Devayani C	19251A0235	Poster Presentation	Second Prize
18	01-05-2021	Sai Nikitha K Rinny	18251A0208 18251A0215	Technical Paper Presentation	First Prize
19	01-05-2021	Amtul Husna Godha	18251A0232 18251A0221	Technical Paper Presentation	Second Prize
20	01-05-2021	Sai Samhitha D Kavya Reddy	18251A0282 18251A0297	Technical Paper Presentation	Third Prize



Fig 10.Project Implementation



Fig 11.Technical Quiz

d. Aarushi Energy Swaraj Club (AESC) Events:**List of events organized by AESC for the Academic Year 2022- 2023**

S.no	Date	Event Name	Organised at
1	23 rd January 2023	Guest Lecture on "5 point Understanding of Climate Change and Corrective Actions"	GNITS
2	22 nd April 2023	World Earth Day-"World's Largest Global Climate Clock Assembly and Display"	GNITS
3	14 th December 2023	Anantha Virya (Ideathon)	GNITS

List of events conducted in the academic year 2021-22

S.no	Date	Event Name	Organised at
1	24 th February 2022	Guest Lecture on "Energy Swaraj Yatra and creating awareness about the climate changes happening due to over usage of energy".	GNITS
2	24 th February 2022	Field visit solar based projects	Neknampur Lake, Manikonda
3	13 th June 2022	Logo Design Contest	GNITS
4	18 th June 2022	Energy literacy promotional stall	GNITS

5	21 st June 2022	Comic Design Contest- "Saving Energy Using Sustainable Solutions"	GNITS
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4.4.2 Publication of technical magazines, newsletters, etc. (5)

A.Quality & Relevance of the Technical Magazine & News letter(3)

The Publication of Technical Magazines and newsletters are

1.Pragya -EEE Dept.Technical Magazine

2.Sankethika Bharathi-Institute News letter

These magazines provide valuable insights into the latest trends and developments in technology, making them popular among professionals, researchers, and enthusiasts alike.

Technical Magazine: Pragya

Duration:

We release two issues of technical magazine every year. Issue 1 covers the objectives of technical magazine that took place during July to December and Issue 2 covers the objectives of technical magazine that happened during January to June of an academic year.

Objectives:

The objectives of a departmental technical magazine are multifaceted, aiming to enrich the academic experience and professional development of students. The primary objective of our departments technical magazine is to disseminate knowledge about the latest advancement informative articles, case studies, and interviews, we aim to keep students abreast of cutting-edge developments in the industry. Our magazine serves as a valuable educational resource, providing students with additional learning materials beyond the classroom curriculum. T the magazine complement academic learning and enhance students understanding of complex concepts. We strive to foster a culture of creativity and innovation among students by providing a platform to showcase their ideas, projects, and research endeavours. The magazine experimentation within our academic community. Through the magazine, students have the opportunity to connect with peers, faculty members, and industry professionals. Networking events, collaborative projects, and discussion forums facilitated by the magazine collaboration among students.





Benefits to students:

Students gain access to supplementary learning materials and practical insights that complement their academic studies. Exposure to industry trends, career advice, and networking opportunities prepares students for future career success. The magazine encourages students to culture of innovation within the department. Students have the chance to connect with peers, faculty, and industry professionals, expanding their professional networks and potential collaboration opportunities. Involvement in the magazine helps students develop essential skills are valuable in their academic and professional pursuits. The magazine builds a sense of community and pride within the department, celebrating the achievements and contributions of students and faculty members alike.

B.Participation of Students in Technical Magazine(2)

Role and Responsibility of Editorial Board:

S.No	Name	Photo	Designation	Responsibility
1	Dr.N.Malla Reddy		Chief Editor	The Chief Editor oversees the editorial process, ensuring that all content meets the publications standards for quality, relevance, and accuracy. They provide guidance to the editorial team, review submissions, and make final decisions on what gets published.

2	Mr. G.Ramana Reddy		Co-Editor	Assist in coordinating peer review processes for submitted articles, which may involve selecting appropriate reviewers, managing the review timeline, and ensuring that feedback is provided to authors in a timely manner.
3	Mrs.P.Mamta		Editorial Assistant	Assist in administrative tasks such as managing correspondence, organizing files, scheduling meetings, and maintaining databases related to submissions, contributors, and publication deadlines.
4	Mrs.P.V.S.S.A. Parimala		Editorial Assistant	Assist in managing the submission process by receiving and logging incoming articles, research papers, and contributions, ensuring that all submissions are properly categorized and tracked throughout the editorial workflow.
5	Mrs.V.Suma Deepthi		Editorial Assistant	Assist in fact-checking information presented in articles, verifying sources, and conducting additional research to ensure the accuracy and credibility of the content

6	B.Tanuja		Student Editor	Curating content for the magazine, that involve soliciting articles, research papers, technical reports, and contributions from fellow students, faculty members, and industry experts.
7	N. Snehitha		Student Editor	Organizing peer review processes for submitted articles to ensure academic rigor and quality standards are met. This may involve recruiting peer reviewers from within the department or related fields.
8	G.Lakshmi Priya		Student Editor	Collaborating with designers or using design software to create visually appealing layouts for the magazine. This includes selecting appropriate images, graphics, and formatting text for print or digital publication.
9	A.Tanmayee Yadav		Student Editor	Ensuring that all content is well-written, grammatically correct, and adheres to the publications style guidelines. This includes editing articles for clarity, coherence, and accuracy.

List of articles in Technical Magazine Volume 3 issue II, July 2023

S.No	Roll No	Student Name	Article
1	2051A0272	A.Hindu sri	Enhancing Womens Safety Through IoT: A Smart Device Approach

2	20251A0252	Faiza Tabassum	Revolutionizing Agriculture: IoT-Enabled Automatic Irrigation Systems
3	21255A0227	Ch.Nikitha	Streamlining Water Management: Design and Implementation of an Automatic Water Pump System for GNITS
4	20251A0289	S.Shruthi	Cultivating Success: Crop Environment Monitoring System with ARDUINO Uno
5	20251A0290	S.Shruthi	Advancing Precision Measurement: Zero Contact Tachometer Technology
6	20251A0267	P.Mounika	Driving Efficiency: The Evolution of Smart Parking Systems
7	20251A0260	K.Sathwika sindhu	Harnessing Nature: Wind and Solar Mobile Charger for Sustainable Energy On-the-Go
8	20251A0256	G.Nagamallika	Illuminating Efficiency: Power Saving Mechanism for Street Lights with IoT
9	21255A0216	R.Bhavana	Enhancing Sleep Quality: The Promise of Sleep Sensing and Alerting Systems
10	20251A0257	K.Aparna	Testing the Performance of Electric Vehicles: A Comprehensive Analysis
11	20251A0268	R.Shreya	Enhancing Safety with Automatic LPG Gas Leakage Detection and Prevention
12	20251A0266	P.Vaishnavi	Wireless ECG Devices with Arduino: Revolutionizing Remote Cardiac Monitoring
13	20251A0247	R.Gayathri	Efficient Power Management: Automatic Load Shedding Time Management with Arduino
14	20251A0245	P.SriLakshmi	Keeping Drivers Awake: The Importance of Anti-Sleep Alarms
15	21255A0201	G.Poomima	Harnessing Solar Power: Data Acquisition and Analysis of a 1 KW Solar PV System
16	21255A0205	K.Geethanjali	Enhancing Safety in Mining: The Role of Smart Helmets
17	21255A0210	B.Vinitha	Navigating the World: Ultrasonic Smart Glasses for the Visually Impaired
18	20251A0213	K.SriVarsha	Solar-Powered Lawn Mower
19	20251A0240	K.Sai Deepthi	555 Timer IC-Based Signal Jammer Reconfiguration
20	20251A0239	K.Bhavana	Solar Energy-Powered Portable Device Charger

21	20251A0237	J.Manisha Reddy	Smart Vacuum Cleaner Robot Utilizing Arduino Technology
22	21255A0202	Ch.MahaLaxmi	Vehicle Speed Regulation Using RF in Proximity to Restricted Areas
23	20251A0241	P.Nikitha	Remote-Controlled Ornithopter
24	21255A0208	L.Mounika	Smart Gas Leak Detection System with IoT Utilizing ESP8266 Module



Fig 1. Technical Magazine Cover Page - 2022-23

2. Sankethika Bharathi -College News Letter

Sankethika Bharathi Provides a single source of comprehensive information about all the activities going on in the college. This newsletter is released once during the College Day celebrations and again at the time of I year induction programme. This Newsletter focuses participation of students and staff in the developmental programmes. It is named Sankethika Bharathi as it is envisaged as a platform for highlighting scientific and technological innovations and reflecting the talent and achievements of GNITians in curricular, cultural, literary,

Sample Copy of Newsletter of 2022-23



SANKETHIKA BHARATHI

SRIRANGAPETTA

SRIRANGAPETTA INSTITUTE OF TECHNOLOGY AND SCIENCE

SRIRANGAPETTA - 575 102

Dr. A. SURESH KANTH

Principal

Dr. A. SURESH KANTH is a highly qualified and experienced professional with a Ph.D. in Mechanical Engineering from Anna University, Chennai. He has been working in the field of higher education for over 25 years. He has held various positions of responsibility, including Head of Institution, Dean of Students, and Head of Department. He is a member of the All India Council of Technical Education (AICTE) and the Indian Society for Technical Education (ISTE). He has published several research papers in international journals and has been invited to speak at various national and international conferences. He is a dedicated and committed leader who is passionate about the growth and development of the institution.

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Electrical & Electronics Engineering

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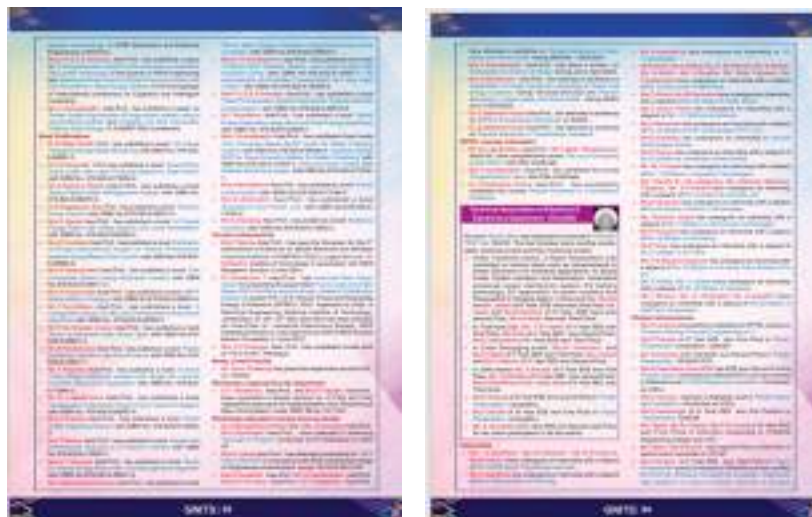


Fig 2. Sankethika Bharathi News letter

B.Tech Student Publications- AY 2023-2024

S. No	Student	Roll No	Title	Journal/ Conference	ISSN NO/ DOI/ ISBN	Scopus	Title of the journal	Vol No, Issue No, PP, Month year of publication
1	Jillela Manisha Reddy	20251A0237	Arduino Based Smart Vacuum Cleaner Robot	Journal	2250-3676	UGC care	International Journal of Engineering Science and Advanced Technology (IJESAT)	Vol. 24, Issue 2, PP: 123-129, Feb. 2024
	Jetpolu Swathika	21255A0206						
	Bolleboina Sravanthi	21255A0203						
	Gurram Srinidhi	20251A0211						
	Ch Aishwarya	20251A0229						

B.Tech Student Publications- AY 2022-2023

S. No	Student	Roll No	Title	Journal/ Conference	ISSN NO/ DOI/ ISBN	Scopus	Title of the journal	Vol No, Issue No, PP, Month year of publication
1	N. Sreeja eddy	19251A0242	Hardware Design and Simulation of Boost Converter Suitable for PV Applications	Journal	2321-9653	UGC care	International Journal for Research in Applied Science and Engineering Technology	Volume 11 Issue VI,PP:3805-3809, June-2023
	Ch. Supraja	19251A0218						
	M. Smitika	19251A0238						
	B. Shreya Yadav	19251A0207						
	B. Aishwarya	19251A0209						
	T. Bhargavi	19251A0253						

2	B. Indhu	20255A0207	Design of MPPT Controllers for PV Cells using Matlab	Journal	2321-9653	UGC care	International Journal for Research in Applied Science and Engineering Technology	Volume 11, Issue VI, PP:3797-3804, June 2023
	P. Priyanka	19251A0270						
	C. Hasini,	19251A02A1						
	T. Bhavya	19251A02B3						
	G. Prasanna	19251A0273						
3	B. Raja Rajeshwari	19251A0267	Load Demand Response Controller	Journal	2321-9653	UGC care	International Journal for Research in Applied Science and Engineering Technology	Volume 11, Issue VI, PP:3810-3815, June 2023
	G. Niharika	19251A0276						
	G. Vaishnavi	19251A0274						
	P. Swarna Priya	19251A0299						
	J. Niharika	19251A0280						
4	G. Gayatri	20255A0211	A Patient Health Monitoring System based on IOT	Journal	0974-2158	UGC care	International Journal of Electrical Engineering	Vol.16, Issue No.1, PP:1-8, July 2023
	A. Bhavana	19251A0262						
	P. Akhila	19251A02A4						
	Mehanoor Tabassum	19251A0286						
	J. Meghana	19251A0277						
5	G Ashritha	19251A0275	AGRIBOT: Agriculture Robot	Journal	0974-2158	UGC care	International Journal of Electrical Engineering	Vol.16, Issue No.1, PP:9-16, July 2023
	Anusha E	19251A0265						
	P Priya	19251A02A2						
	G Vybhavi	19251A0272						
	R Sri Soumya	19251A02A6						
6	N.Shreekruthi	19251A0241	Battery Storage Management System	Journal	0974-2158	UGC care	International Journal of Electrical Engineering	Vol.16, Issue No.1, PP:17-25, July 2023
	A.Sucharitha	19251A0203						
	D.Rishitha	19251A0223						
	G.Srija	19251A0229						
	B.Gayathri	19251A0217						
7	G. Nikhitha	19251A0231	Bluetooth Controlled Robotic Car with Wireless Camera & Metal Detection	Journal	0974-2158	UGC care	International Journal of Electrical Engineering	Vol.16, Issue No.1, PP:27-34, July 2023
	G. Jenny Praise	19251A0230						
	S. VedaLasya	19251A0258						
	B. Rupa Sree	19251A0213						
	Ch. Manjula	19251A0219						

8	K.Devayani chakravarthi	19251A0235	Design and Experimentation of Voltage Control for PV-FED DC-DC Converter	Journal	0974-2158	UGC care	International Journal of Electrical Engineering	Vol.16, Issue No.1, PP:35-45, July 2023
	Shaik Ashfiya	19251A0251						
	T.Vijaya Bhargavi	19251A0255						
	K.Manaswini	19251A0232						
	G.Sahithi	19251A0226						
9	Sushma Pola	19251A0298	Dual Axis Solar Tracker with Weather Sensors	Journal	0974-2174	UGC care	International Journal of Electronic and Electrical Engineering	Vol.16, Issue No.1,PP:1-6, July 2023
	M.Harshitha	19251A0288						
	M Swetha	19251A0296						
	K.Alekhyia	19251A0281						
10	A. Ravali	19251A0204	Fault Detection in Underground Cables Using A Microcontroller	Journal	0974-2174	UGC care	International Journal of Electronic and Electrical Engineering	Vol.16, Issue No.1,PP:7-16, July 2023
	G. Chandana	20255A0203						
	A.Divya Nayak	20255A0205						
	M. Kundan Shivani	19251A0236						
	S. Varshasri	19251A0250						
11	B. Varshini Raj	19251A0211	Fault Diagnosis and Monitoring of Small Wind Turbine Using IOT	Journal	0974-2174	UGC care	International Journal of Electronic and Electrical Engineering	Vol.16, Issue No.1,PP:17-23, July 2023
	G. Hrushika	19251A0227						
	A. Sreeja	19251A0202						
	Ch. Ankitha	20255A0204						
	Fariha Afroz	19251A0225						
12	Keerthana	19251A0224	Implementation of V2G and G2V Technology in Micro Grid using MATLAB Simulink	Journal	0974-2174	UGC care	International Journal of Electronic and Electrical Engineering	Vol.16, Issue No.1,PP:25-33, July 2023
	B.Akshaya	19251A0212						
	B. Shireesha	20255A0202						
	D. Shriya	19251A0205						
	V. Srutha Keerthi	19251A0210						
13	A.Sindhujja	20255A0201	IOT Based Energy Meter with Billing System and Load Prioritization	Journal	0974-2174	UGC care	International Journal of Electronic and Electrical Engineering	Vol.16, Issue No.1,PP:35-41, July 2023
	Shaik Fareeda	19251A0252						
	M. Vennela	19251A0239						
	D. Tejaswini	19251A0220						
	N. Ramyasree	19251A0240						

14	B. Vindhya	19251A0233	Simulation of Wind-Solar based Hybrid Power Generation System using MATLAB	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research.	Vol.15, Issue No.1,PP:1-9, July 2023
	K. Varsha	19251A0208						
	M. Bindhu	19251A0247						
	P. Arshiya Khan	19251A0237						
	T. Swathi Sri	19251A0254						
15	K. Supraja	19251A0282	Smart Shoe	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research.	Vol.15, Issue No.1,PP:11-18, July 2023
	M. Keerthi	19251A0287						
	S. Anuhya	19251A02A9						
	Ch. Sushma	19251A0271						
	S. Harshini	19251A02A8						
16	M. Keerthana	19251A0289	Solar Powered Automatic Rain Protection for Field Crops Using Arduino UNO and Moisture Level Monitoring System	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research	Vol.15, Issue No.1,PP:19-26, July 2023
	A. Charitha	19251A0269						
	N. Vaishnavi	19251A0297						
	M. VarshaSri	19251A02B5						
17	D. Architha	19251A0222	Solar Wireless Electric Vehicle Charging System	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research.	Vol.15, Issue No.1,PP:27-35, July 2023
	V. Supraja Rao	19251A0257						
	V. Nandana	19251A0256						
	Y. Rani	19251A0260						
	B. Pavani	19251A0216						
18	N. Thanmai	19251A0244	Speed Control of Single Phase Induction Motor Using Android Bluetooth Module	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research.	Vol.15, Issue No.1,PP:37-42, July 2023
	B. Ravali	19251A0215						
	V. Shanthi	19251A0259						
	S. Pooja	19251A0248						
	P. Shruthi	19251A0246						
19	Jogula Sri Chandana	20255A0209	UPS Battery Monitoring System Using Battery and Supply Changeover	Journal	0975-6450	UGC care	International Journal of Electronics Engineering Research.	Vol.15, Issue No.1,PP:43-48, July 2023
	Martha Thanuja	19251A0291						
	Mogili Sriharshitha	19251A0293						
	Alapati Shrilasya	19251A0261						
	Jakka Bhavani	19251A0279						

20	B. Raja Rajeshwar	19251A0267	Load Demand Response Controller	Journal	2249-3085	UGC care	International Journal of Electrical Engineering and Technology.	Vol.13, Issue No.1,PP:1-10, July 2023
	G. Niharika	19251A0276						
	G. Vaishnavi	19251A0274						
	P. Swarna Priya	19251A0299						
	J. Niharika	19251A0280						
21	A. Lasya Priya	19251A0264	LPG Gas Leakage Detection and Alert System	Journal	2249-3085	UGC care	International Journal of Electrical Engineering and Technology.	Vol.13, Issue No.1,PP:11-19, July 2023
	B. L. Malvika	19251A0268						
	Sofia Tahreem	19251A02B0						
	V. Juhitha	19251A02B7						
	B. Neha	19251A0266						
22	P S Sahasra Vaishnavi	19251A02A3	MPPT Based Battery Charging Using Solar Energy	Journal	2249-3085	UGC care	International Journal of Electrical Engineering and Technology.	Vol.13, Issue No.1,PP:21-30, July 2023
	Peduri Sai Vandana	20255A0212						
	S. Aakanksha	19251A02B1						
	Rachamalla Aparna	19251A02A5						
23	A. Akshitha	19251A0245	Simulation and Design of Boost Converter for 1KWP PV System Using P&O and Incremental Conductance Algorithm	Journal	2249-3085	UGC care	International Journal of Electrical Engineering and Technology.	Vol.13, Issue No.1,PP:31-41, July 2023
	D. Prasanna	19251A0243						
	N. Sathiyha	20255A0206						
	N.Chinmayee	19251A0221						
	Ch. Kaveri	19251A0201						
24	Vadlakonda Ramya	20255A0208	Simulation and Implementation of Speed Control of Single Phase Induction Motor Using Microcontroller	Journal	2249-3085	UGC care	International Journal of Electrical Engineering and Technology.	Vol.13, Issue No.1,PP:43-50, July 2023
	M. Sathvika	19251A0294						
	Kethavath Sunitha	19251A0283						
	Paankhuri Gupta	19251A02A0						

4.4.3 Participation in inter-institute events by students of the program of study (10)

A. Events with in the State(2)**1.Technical Events****Table 4.5.3.1 Events with in the State for the academic year 2023-24**

S.No	Roll No	Name of the student	Event name	Location	Location
1	21251A0264	Rithika Reddy	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	I st Prize
2	21255A0203	B.Sravanthi	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	I st Prize
3	20251A0237	J.Manisha Reddy	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	I st Prize
4	19251A0285	M Siri chandana	National level Five Day workshop on ""SILICON TO SYSTEM DESIGN""	Hyderabad	Participation
5	21251A02A8	Vennela Ippalapelli	NASA HACKATHON Galactic Problem- Solver	Hyderabad	Participation
6	21251A0276	Kandika keerthi kiran	NASA SPACE APP CHALLENGE Galactic Problem- Solver	Hyderabad	Participation
7	21251A0235	Bramandlapally Ganga Aashritha	PALS - TuTr hyperloop hackathon winner	Hyderabad	Participation
8	21251A0248	M V Sai Aparna	NASA space Apps challenge 2023	Hyderabad	Participation
9	21251A0293	B Deekshitha Bhargavi	Hackathon (NASA space Apps challenge 2023)	Hyderabad	Participation
10	21251A0284	Sadaf Tak	NASA Space Apps Challenge 2023 (Nationals)	Hyderabad	Participation
11	22251A0221	Pandugula Indhu	Two day Electric Vehicle Workshop	GNITS,Hyderabad	Participation
12	22251A0246	M.Chinmayee	Mock Parliment	Rashtrapathi Bhavan,Hyderabad	Participation
13	222251A0221	Pandugula Indhu	Wingfotech,Elan&Vision,IIT,Hyderabad	IIT,Hyderabad	Participation

**Fig 1.Science Exhibition at Rastrapathi Nilayam-2024****2.Sports Events****Table 4.5.3.2 Events with in the State for the academic year 2023-24**

S.no	Roll No	Name of the Student	Name of the Sports	Team/ Individual	State/National/International
1	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
2	21251A0228	S.Meenakshi	4X100 mts Relay	Team	National level
3	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
4	20251A0278	T.A.L Sravani	Throw ball	Team	National level
5	21251A0228	S.Meenakshi	100 mrts	Singles	National level
6	20251A0278	T.A.L Sravani	Throw ball	Team	National level
7	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
8	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
9	20251A0278	C.Hari Sahithi	Throw ball	Team	State level

Table 4.5.3.3 Technical Events with in the State for the academic year 2022-23

S.No	Roll No	Name	Name of the event	Location	Date	Prize
1	19251A0251	K.Alekya	Innovate 4 Menstrual waste'Hackatham2022	TSIC & WaterAid, Hyderabad	May 2022	1 st Prize
2	19251A0267	B. Raja Rajeswari	Innovate 4 Menstrual waste'Hackatham2022	TSIC & WaterAid, Hyderabad	May 2022	Ist Prize
3	19251A0205	A.Keerthana	Innovate 4 Menstrual waste'Hackatham2022	TSIC & WaterAid, Hyderabad	May 2022	Ist Prize
4	22251A0284	Sanneella Sreenidhi	Internship and training on artificial intelligence	Skolar	1-04-2023 to 30-06-2023	Certified
5	20251A0206	Deekshetha Goud.Bandi	Nasa Space App Hackathon	Nasa Space challenges	01-10-2022	Nationals
6	20251A0256	G Naga mallika	National Engineering Olympiad 6.0	National Engineering Olympiad 6.0	19 July 2022	AIR 14
7	20251A0208	Vennela Ganditi	Project Expo	GITAM University,Hyderabad	16 th &17 th March,2023	Participation
8	20251A0215	Vidmahi.K	Project Expo	GITAM University,Hyderabad	16 th &17 th March,2023	Participation



**Fig 2.Receiving the Award from Shri Jayesh Ranjan, Principal Secretary
for ITE&C and Industries & Commerce, Telangana**

Table 4.5.3.4 Sports Events with in the State for the academic year 2022-23

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International
1	21251A0262	Anjali	Volleyball	Team	State level
2	21251A0228	S.Meenakshi	100m RUN	Single	State
3	202514A0233	G.Tejaswi	800 m Run	Single	State
4	21251A0228	S.Meenakshi	4x100mRelay	Team	State
5	20251A0233	G.Tejaswi	4x400mRelay	Team	State
6	21251A0263	A.Alekhya	Short Put	Single	State

Table 4.5.3.5 Technical Events with in the State for the academic year 2021-22

S.No	Name	Class	Title	Location	Date & Time	Prize
1	D.V. Nakshatra	II-EEE	BVRIT model united nations Conference	BVRIT College,Hyderabad	3rd &4th June 2022	High Comm.1
2	D.V. Nakshatra	II-EEE	Anurag University Model United nations	ANURAG UNIVERSITY,Hyderabad	2022	Special Mention
3	S.Shruthi	II-EEE	Anurag University Model United nations	ANURAG UNIVERSITY	2022	certificate of Merit
4	19251A0251	K.Alekya	Haritha Techlogix	Hyderabad	9 th & 10 th June 2022	Participation

Table 4.5.3.6 Sports Events with in the State for the academic year 2021-22

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International	Awa
1	18251A0237	Janet Angela E	Basketball	Team	National	Run

2	18251A0233	B. Navya	Volleyball	Team	National	Win
3	21251A0228	S. Meenakshi	Kho Kho	Team	National	Win
4	21251A0262	Anjali	Volleyball	Team	National	Win
5	21251A0228	S. Meenakshi	200 Mts. Run	Individual	National	Win

B. Events Out Side the State (3)**Table 4.5.3.7 Technical Events with in the State for the academic year 2023-24**

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
1	19251A0252	Shaik Fareeda	GPREC IEEE ITSOC conducted "VYGNAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	1 st Prize in Poster presentation
2	20255A0201	A.Sindhuja	GPREC IEEE ITSOC conducted "VYGNAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	2 nd Prize in Coding Challenge
3	19251A0226	Grandisila Sahithi	GPREC IEEE ITSOC conducted "VYGNAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	1st Prize in Tech pick and Talk
4	19251A02A6	R Sri Sowmya	"Technopedia" a one day technical event conducted by IEEE CIS SBC of G. Pulla Reddy Engineering College, Kurnool	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	3 rd Prize in Poster presentation
5	21251A0204	A. SHIVANI	Circuit Ladder	BMS,Banglore	22.12.2023	Participation
6	22255A0207	D. SRIJA	Poster Making	BMS,Banglore	22.12.2023	Participation
7	21251A0266	B. SAI ANVITHA REDDY	Technical Quiz	BMS,Banglore	22.12.2023	Participation
8	21251A0235	B. GANGA AASHRITHA	Memory Testing	BMS,Banglore	22.12.2023	Participation
9	21251A0275	K. SHREYA	Coil Making	BMS,Banglore	22.12.2023	Participation

Table 4.5.3.8 Sports Events with in the State for the academic year 2023-24

S.no	Roll No	Name of the Student	Name of the Sports	Team/ Individual	State/National/International
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1	20251A0233	G.Tejaswi	4x100mRelay	Team	National level
2	21251A0228	S.Meenakshi	4x100mRelay	Team	National level
3	21251A0228	S.Meenakshi	4X100 mts Relay	Team	National level
4	20251A0245	P.Sri Lakshmi	Kho-Kho	Team	National level

Table 4.5.3.9 Technical Events with in the State for the academic year 2022-23

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
1	18251A0213	Gaddam sakshikareddy	GPREC ISTE chapter conducted Ride Competition- "The missile man of India"	GPREC, Kurnool , Andhra Pradesh	On 19-10-2022	2 nd Prize
2	18251A0201	A.kavya	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	1 st Prize in Project Expo Competition
3	18251A0224	Samrin sultana	GPREC IEEE SB conducted "Anokha 4.0"-A Two day student congress	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	3 rd Prize in Quiz competition
4	19255A0211	Padige Gayathri	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	3 rd Prize in Poster presentation competition
5	18251A0294	C.Archana Reddy	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	1st Prize in Paper presentation
6	20251A0205	B. VASANTHA	Circuit Debugging	BMS Bangalore	25.11.2022	Participated
7	20251A0268	R.SHREYA	Poster Making	BMS Bangalore	25.11.2022	Participated
8	20251A0213	K. SRI VARSHA	Technical Quiz	BMS Bangalore	25.11.2022	Participated
9	20251A0239	K. BHAVANA	Technical Quiz	BMS Bangalore	25.11.2022	Participated
10	20251A0266	P. SAI PRIYA	Logic Optimization	BMS Bangalore	26.11.2022	Participated
11	22251A0284	Sanneella Sreenidhi	Internship and training on artificial intelligence	Skolar	1-04-2023 to 30-06-2023	Certified
12	20251A0206	Deekshetha Goud.Bandi	Nasa Space App Hackathon	Nasa Space challenges	01-10-2022	Nationals
13	20251A0256	G Naga mallika	National Engineering Olympiad 6.0	National Engineering Olympiad 6.0	19 July 2022	AIR

Table 4.5.3.10 Technical Events with in the State for the academic year 2021-22

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
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1	17251A0299	Kandukuri Manideepa	GPREC IEEE SB conducted Anokha 3.0	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	Received Best Participant award from GPREC based on her attendance as well as assessment test
2	17251A0283	Sai madhuri G	AICTE SPICES sponsored event "Technoedgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	1 st Prize in Project Competition
3	17251A0296	Buragoni Nikhila	AICTE SPICES sponsored event "Technoedgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	2nd Prize in Circuit Mastery event
4	17251A0210	Kamishetti lavanya	AICTE SPICES sponsored event "Technoedgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	1 st Prize in Paper presentation Competition
5	17251A0234	A sirichandana	HANDS-ON SESSION "DATA SCIENCE" conducted by IEEE SB of G. Pulla Reddy Engineering College, Kurnool	GPREC, Kurnool , Andhra Pradesh	on 28 th May 2022	Best Participant in Hands on Session on "Data Science" A one day programme by Sri Geethananda Reddy Garu, well Known Data Scientist and Business Analyst

C. List of Prizes / Awards received (5).

Table 4.5.3.11 Technical Events prizes/Awards for the academic year 2023-24

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
1	19251A0252	Shaik Fareeda	GPREC IEEE ITSOC conducted "VYGNAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	1 st Prize in Poster presentation
2	20255A0201	A.Sindhuja	GPREC IEEE ITSOC conducted "VYGNAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	2 nd Prize in Coding Challenge

3	19251A0226	Grandisila Sahithi	GPREC IEEE ITSOC conducted "VYGNAAAN 2K23"-A Five Day National level Technical Fest	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	1st Prize in Tech pick and Talk
4	19251A02A6	R Sri Sowmya	"Technopedia" a one day technical event conducted by IEEE CIS SBC of G. Pulla Reddy Engineering College, Kurnool	GPREC, Kurnool , Andhra Pradesh	from 14 th -19 th December 2023	3 rd Prize in Poster presentation
5	21251A0264	Rithika Reddy	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	26 to 28 Feb-2024	I st Prize
6	21255A0203	B.Sravanthi	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	26 to 28 Feb-2024	I st Prize
7	20251A0237	J.Manisha Reddy	Science Exhibition,Rashtrapati nilayam,Hyderabad	Hyderabad	26 to 28 Feb-2024	I st Prize2

Table 4.5.3.12 Sports Events prizes/Awards for the academic year 2023-24

S.no	Roll No	Name of the Student	Name of the Sports	Team/ Individual	State/National/International
1	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
2	20251A0233	G.Tejaswi	4x100mRelay	Team	National level
3	21251A0228	S.Meenakshi	4x100mRelay	Team	National level
4	20251A0233	T.Tejaswi	Kho-Kho	Team	National level
5	20251A0278	T.A.L Sravani	Throw ball	Team	State level
6	21251A0228	S.Meenakshi	4X100 mts Relay	Team	National level
7	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
8	20251A0278	T.A.L Sravani	Throw ball	Team	National level
9	21251A0228	S.Meenakshi	100 mrts	Singles	National level
10	20251A0278	T.A.L Sravani	Throw ball	Team	National level
11	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
12	20251A0278	C.Hari Sahithi	Throw ball	Team	State level
13	20251A0278	C.Hari Sahithi	Throw ball	Team	State level

Table 4.5.3.13 Technical Events prizes/Awards for the academic year 2022-23

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
1	18251A0213	Gaddam sakshikareddy	GPREC ISTE chapter conducted Ride Competition- "The missile man of India"	GPREC, Kurnool , Andhra Pradesh	On 19-10-2022	2 nd Prize
2	18251A0201	A.kavya	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	1 st Prize in Project Expo Competition
3	18251A0224	Samrin sultana	GPREC IEEE SB conducted "Anokha 4.0"-A Two day student congress	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	3 rd Prize in Quiz competition
4	19255A0211	Padige Gayathri	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	3 rd Prize in Poster presentation competition
5	18251A0294	C.Archana Reddy	GPREC IEEE ITSOC conducted "Technoledgica 2023" a Five day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 25th – 29th April 2023 on 24-08-2022	1st Prize in Paper presentation

Table 4.5.3.14 Sports Events prizes/Awards for the academic year 2022-23

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International
1	21251A0262	Anjali	Volleyball	Team	State level
2	21251A0228	S.Meenakshi	100m RUN	Single	State
3	20251A0233	G.Tejaswi	800 m Run	Single	State
4	21251A0228	S.Meenakshi	4x100mRelay	Team	State
5	20251A0233	G.Tejaswi	4x400mRelay	Team	State
6	21251A0263	A.Alekhya	Short Put	Single	State

Table 4.5.3.15 Technical Events prizes/Awards for the academic year 2021-22

S.No	Roll No	Name of the student	Event name	College Name	Date of Event	Prize
1	17251A0283	Sai madhuri G	AICTE SPICES sponsored event "Technoledgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	1 st Prize in Project Competition

2	17251A0296	Buragoni Nikhila	AICTE SPICES sponsored event "Technoedgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	2nd Prize in Circuit Mastery event
3	17251A0210	Kamishetti lavanya	AICTE SPICES sponsored event "Technoedgica 2022" A Five Day National Level Student's Technical Symposium	GPREC, Kurnool , Andhra Pradesh	during 27-30 May 2022	1 st Prize in Paper presentation Competition

Table 4.5.3.16 Sports Events prizes/Awards for the academic year 2021-22

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International	Award
1	18251A0237	Janet Angela E	Basketball	Team	National	Runners
2	18251A0233	B. Navya	Volleyball	Team	National	Winners
3	21251A0228	S. Meenakshi	Kho Kho	Team	National	Winners
4	21251A0262	Anjali	Volleyball	Team	National	Winners
5	21251A0228	S. Meenakshi	200 Mts. Run	Individual	National	Winners

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

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.)
1	Dr.N.Malla Reddy	ACMPN2118G	ME/M. Tech and PhD	30/06/2015	Power Electronics	8	1	0	Professor	31/10/2016
2	Dr.K Ramesh Reddy	AENPK2417A	ME/M. Tech and PhD	30/11/2004	Power Systems Engineering	7	5	2	Professor	
3	Dr.P.Ramakrishna Reddy	AIRPP7644J	ME/M. Tech and PhD	31/03/2015	Power Systems	7	0	0	Professor	31/10/2016
4	Dr.G.Annapurna	AEPPG4235E	ME/M. Tech and PhD	31/07/2017	Power Electronics	6	0	0	Professor	01/04/2022
5	Dr.R.Nageswara Rao	AFSPR5227F	ME/M. Tech and PhD	31/07/2018	Power Systems	6	0	0	Professor	01/04/2022
6	Mr.G.Ramana Reddy	AGMPG5968R	M.E/M.Tech	30/10/2004	Power Electronics	5	0	0	Associate Professor	01/07/2005
7	Dr.T.Surya Prakash	AEWPT1105R	ME/M. Tech and PhD	22/03/2021	Industrial Drives & Control	9	0	0	Assistant Professor	
8	Dr.B.Ravichandra Rao	ANUPB1410C	ME/M. Tech and PhD	29/04/2021	Control Systems	3	0	0	Assistant Professor	
9	Mrs.Narmada Byreddy	AOLPB9592H	M.E/M.Tech	30/07/2005	Power & Industrial Drives	7	0	0	Assistant Professor	
10	Mrs.G.Ujwala	AQPPG2299A	M.E/M.Tech	31/12/2010	Power Electronics & Electric Drives	6	0	0	Assistant Professor	
11	Mrs.E.Goutami	ATQPG3980Q	M.E/M.Tech	30/10/2010	Embedded Systems	11	0	0	Assistant Professor	
12	Mrs.K.Swarna Latha	BWGPK0298H	M.E/M.Tech	31/01/2011	High Voltage Engineering	9	0	0	Assistant Professor	
13	Mrs.K.Priyamvada	BUEPK3885J	M.E/M.Tech	31/10/2006	Electrical Power Engineering	5	0	0	Assistant Professor	
14	Mr.P.Buchi Babu	AVFPP9333B	M.E/M.Tech	31/12/2011	High Voltage Engineering	8	0	0	Assistant Professor	
15	Mr.P.Sai Niranjan Kumar	ARLPP9250D	M.E/M.Tech	31/01/2011	Power Electronics	7	0	0	Assistant Professor	
16	Mr.K.Pandu Kumar	BDNPK4926N	M.E/M.Tech	31/12/2010	High Voltage Engineering	2	0	0	Assistant Professor	
17	Mrs.Y.Priyanka	AMGPY6544H	M.E/M.Tech	31/01/2014	Power Electronics & Electric Drives	7	0	0	Assistant Professor	
18	Mr.Ch.Leela Krishna	APSPC7551H	M.E/M.Tech	31/12/2012	Electrical Power Engineering	6	0	0	Assistant Professor	
19	Mrs.G.Sujatha	BIOPG6022R	M.E/M.Tech	29/11/2014	Electrical Power Engineering	11	0	0	Assistant Professor	
20	Dr.K.V.DhanaLakshmi	BDMPK9702K	ME/M. Tech and PhD	30/11/2023	Electrical Power Systems	12	0	0	Assistant Professor	

21	Mrs.P.V.S.S.A.Parimala	BACPP8366H	M.E/M.Tech	31/12/2012	Power Electronics	8	0	0	Assistant Professor
22	Dr T. Himabindu	AGUPH5172Q	ME/M. Tech and PhD	31/03/2021	Power Electronics & Electric Drives	8	0	0	Assistant Professor
23	Mrs.V.Suma Deepthi	AQNPV4774D	M.E/M.Tech	30/04/2012	Power Systems	15	0	0	Assistant Professor
24	Mrs.S.Bhulakshmi	FCPPB5532J	M.E/M.Tech	30/09/2021	Power Electronics & Electric Drives	4	0	0	Assistant Professor
25	Mrs.B.Abhinethri	DELPB5243E	M.E/M.Tech	30/04/2016	Electrical Power Systems	3	0	0	Assistant Professor
26	Dr.G.Satheesh	ARRPG4120H	ME/M. Tech and PhD	31/12/2021	Power System with Emphasis on High Voltage Engineering	5	0	0	Assistant Professor
27	Mr.S.Chaitanya	EGOPS4010N	M.E/M.Tech	15/09/2014	Power Electronics & Electric Drives	3	0	0	Assistant Professor
28	Dr.S.S.Tulasi Ram	AIEPS6218E	ME/M. Tech and PhD	30/09/1995	Power Systems & High Voltage Engineering	0	7	5	Professor
29	Mr.K.Krushna Murthy	BNZPK2798C	M.E/M.Tech	12/10/2012	Electrical Power Engineering	1	0	0	Assistant Professor
30	Mrs.P.Tejaswi	BJVPP8970R	M.E/M.Tech	30/11/2012	High Voltage Engineering	4	0	0	Assistant Professor
31	Mr.P.Siva Prasad	BVXPS3872F	M.E/M.Tech	16/10/2010	Power Electronics	0	0	0	Assistant Professor
32	Mr.P.Suresh	BDLPP0532M	M.E/M.Tech	30/05/2015	Electrical Power Engineering	0	0	0	Assistant Professor
33	G.Gopinath	AFDPG8634A	M.E/M.Tech	28/02/1995	Control Systems	0	0	0	Professor
34	Mrs.P.Mamta	BFRPM2123K	M.E/M.Tech	10/10/2015	Power Electronics & Electric Drives	5	0	0	Assistant Professor
35	Mrs.K.V.Sowmya	DAIPS6825L	M.E/M.Tech	10/11/2012	Power Electronics & Electric Drives	6	0	0	Assistant Professor
36	Mr.V.Badri Ramakrishnan	APQPV2761J	M.E/M.Tech	29/01/2016	Power Electronics	9	0	0	Assistant Professor

5.1 Student-Faculty Ratio (SFR) (20)

UG

No. of UG Programs in the Department

B.Tech (Electrical and Electronics Engineering)					
Year of Study	CAY		CAYm1		
	(2023-24)		(2022-23)		
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake
2nd Year	129	24	129	15	120
3rd Year	129	15	120	29	120
4th Year	120	29	120	12	120
Sub-Total	378	68	369	56	360
Total	446		425		413
Grand Total	<input type="text" value="446"/>		<input type="text" value="425"/>		<input type="text" value="413"/>

PG

No. of PG Programs in the Department

M.Tech (Power Electronics and Electric Drives)			
Year of Study	CAY(2023-24)		CAYm1(2022-23)
	Sanction Intake		Sanction Intake
1st Year	12		12
2nd Year	12		18
Total	24		30
Grand Total	<input type="text" value="24"/>		<input type="text" value="30"/>

SFR

No. of UG Programs in the Department

No. of PG Programs in the Department

Description	CAY(2023-24)	CAYm1 (2022-23)
Total No. of Students in the Department(S)	<input type="text" value="470"/> Sum total of all (UG+PG) students	<input type="text" value="455"/> Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	<input type="text" value="28"/> F1	<input type="text" value="30"/> F2
Student Faculty Ratio(SFR)	<input type="text" value="16.79"/> SFR1=S1/F1	<input type="text" value="15.48"/> SFR2=S2/F2
Average SFR	<input type="text" value="15.81"/> 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 correspond 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)	28	0
CAYm1(2022-23)	30	0
CAYm2(2021-22)	29	0

Average SFR for three assessment years : 15.81

Assessment SFR : 18

5.2 Faculty Cadre Proportion (20)

Year	Professors		Associate Professors	
	Required F1	Available	Required F2	Available
CAY(2023-24)	2.00	5.00	5.00	0.00
CAYm1(2022-23)	2.00	5.00	5.00	0.00
CAYm2(2021-22)	2.00	4.00	4.00	2.00
Average Numbers	2.00	4.67	4.67	0.67

Cadre Ratio Marks $[(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10$: 20.00

5.3 Faculty Qualification (20)

	X	Y	F	$FQ = 2 \times [(10X + 4Y) / F]$
2023-24(CAY)	8	20	23.00	13.91
2022-23(CAYm1)	9	21	22.00	15.82
2021-22(CAYm2)	9	20	22.00	15.45

Average Assessment : 15.06

5.4 Faculty Retention (10)

Description	2022-23 (CAYm1)
No of Faculty Retained	26
Total No of Faculty	22
% of Faculty Retained	118

Average : 111.00

Assessment Marks : 10.00

5.5 Faculty competencies in correlation to Program Specific Criteria (10)

The role of faculty in higher education is of exceptional importance to prepare future professionals for challenging and rewarding careers.

As a part of this, faculty in professional education should possess essential competencies to cater the needs of the educational community in line with the fast growing technology and industry.

The faculty members of department of Electrical and Electronics are motivated to participate in workshops, FDPs, Paper publications which include journals, conferences, books etc., to enable them to be at par with the changing trends of the technology.

This expertise has become a building ground in the development of courses, guidance of projects to students etc.,

Table 5.5 Measurable parameters for the faculty competencies:		
A	B	C
Specialization	Research Publications	Course Developments
<p>Major domains of Electrical engineering.</p> <p>1. Power Electronics & Electric drives. (PE&ED) -Power Electronics - DC & AC machines -Electric Drives</p> <p>2. Electrical Power Systems. (EPS) -Power systems -High voltage Engineering..</p> <p>3. Control systems. (CS) -Embedded, -ANN -IoT applications. Additional courses like circuit analysis, electromagnetic field theory and measurements, which are the basics courses.</p>	<p>Publication of the technical content or new ideas shared with the peer group of the same research areas.</p> <p>1. Paper Publications: a. Journals b. Conferences, Books/ Book chapters</p> <p>2. Patents</p>	<p>As a part of change in Regulation from GNR-18 to GNR-22, courses are either courses are being introduced in the curriculum.</p> <p>- List of New courses added as per the regulation GNR2:</p>

5.5.A.1.Specialization: Major specializations of Electrical engineering are as shown in figure 5.5.A.1:

Curriculum of the Department of Electrical and Electronics is designed to cater to the University requirements along with the exposure to the present trends of latest technologies.

- The department has well-qualified, experienced and highly dedicated faculty with competencies to adequately meet the program-specific criteria.
- Broad domains of Electrical and Electronics Engineering are, Power Electronics and Electric Drives, Electrical Power Systems and Control Systems which cover various thrust areas under them.

Faculty competency based on the domains.

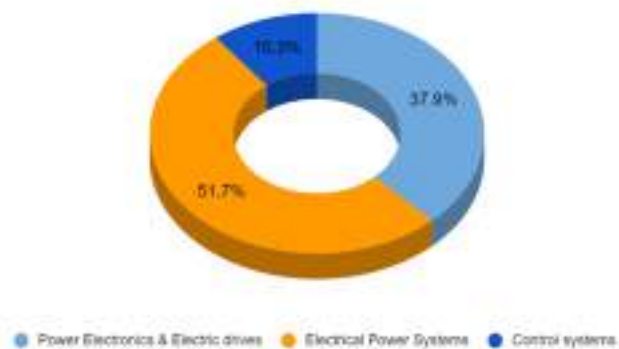


Figure: 5.5.A.1: Faculty Competency based on the domain.

Table 5.5.A.1: Details of Faculty in various specializations year wise.

S.NO.	Domains of Electrical Engineering	Faculty competency in various domains during the specified years.			
		2023-24:CAy	2022-23:CAyM1	2021-22:CAyM2	2020-21:CAyM3
1	Power Electronics & Electric drives	11	13	11	10
2	Electrical Power Systems	15	12	11	16
3.	Control systems.	3	5	5	5
Total		28	30	29	31

Details of Faculty in various specializations year wise.

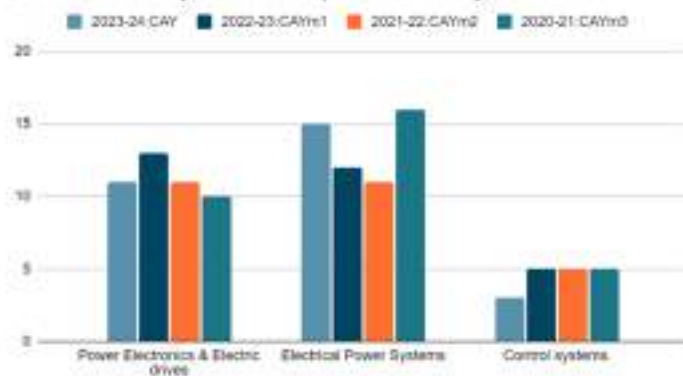


Figure: 5.5.A.2: Faculty Competency based on the domain during the assessment period

- Department has 30(as on today) faculty members with Masters in varied fields and 12 Doctorates from various streams of Electrical engineering and 13 are pursuing PhD as shown below.

5.5.A.2: Faculty Specialization in research- PhDs: Obtained/ still pursuing various specializations.

Table. 5.5.A.2. Details of the PhDs awarded and still pursuing during mentioned years.

S.N O.	Faculty Specialization	Relevant data during the respective assessment years							
		2023-24:CAy		2022-23:CAy1		2021-22:CAy2		2020-21:CAy3	
		Awarded	Pursuing	Awarded	Pursuing	Awarded	Pursuing	Awarded	Pursuing
1	Power Electronics & Electric drives	05	08	05	08	05	08	05	08
2	Electrical Power Systems	05	04	04	05	04	05	04	05
3	Control systems.	01	01	01	01	01	01	01	01
Total		11	13	10	14	10	14	10	14

5.5.A.3 Details of the PhD as per the area of specialization and the Universities :

Table 5.5.A.3.Details of PhD awarding Universities and area of specialization of PhD.

S.No.	Name of the Faculty	University	Area of specialization PhD	Year of Award
1	Dr.K.Ramesh Reddy	Sri Venkateswara University (SVU), Tirupathi	Power Systems	2004
2	Dr.P.Rama Krishna Reddy	Jawaharlal Nehru Technological University Hyderabad, Hyderabad	Power Systems	2015
3	Dr.N.Malla Reddy	Jawaharlal Nehru Technological University Hyderabad, Hyderabad	Power Electronics	2015
4	Dr. G.Annapurna	Jawaharlal Nehru Technological University Hyderabad, Hyderabad	Power Electronics	2017
5	Dr.R.Nageswara Rao	Jawaharlal Nehru Technological University Hyderabad, Hyderabad	Control Engineering	2018
6	Dr.Himabindu. T	BITS Pilani	Power Electronics	2021
7	Dr.G.Satheesh	Jawaharlal Nehru Technological University Kakinada, Kakinada	High Voltage Engineering	2022
8	Dr.K.V.Dhanalakshmi	GIET, Odisha	Power Systems	2023
9	Dr. Chakravarthi	IIT-Dharwad	Power Systems	2023
10	Dr. S.S.Tulasi Ram	Jawaharlal Nehru Technological University Kakinada, Kakinada	Power Systems	1995
11	Dr. T.Surya Prakash	Osmania University, Hyderabad	Power Electronics	2021
12	Dr. B.Ravi Chandra Rao	Sri Venkateswara University (SVU), Tirupathi	Power Electronics & Electric Drives	2021

Table 5.5.A.4.Details of faculty who are in various stages of persuasion of PhD and respective Universities:

S.No.	Name of the Faculty	University	Area of specialization PhD
1	Mrs.G. Ujwala	Annamalai University, Tamilnadu	Power Electronics

2	Mrs.E. Goutami	Visvesvaraya Technological University, Belagavi	Power Electronics and Electric drives
3	Mrs.K. SwarnaLata	Osmania University, Hyderabad	Power Systems
4	Mrs.K. Priyamvada	Jawaharlal Nehru Technological University Kakinada, Kakinada	High Voltage Engineering
5	Mr.P. BuchiBabu	Koneru Laxmaiah University, Vijayawada	Control Engineering
6	Mr.P. Sai Niranjan Kumar	Koneru Laxmaiah University, Vijayawada	Power Electronics
7	Mrs.Y.Priyanka	Jawaharlal Nehru Technological University Hyderabad, Hyderabad	Power Electronics
8	Mrs.G. Sujatha	GITAM, Hyderabad	Power Systems
9	Mrs.P. Mamta	Lingaya's Vidhyapeeth, Faridabad	Bio-medical
10	Mrs.PVSSA Parimala	VIT, Bhopal.	Power Electronics
11	Mrs.V. Suma Deepthi	VIT, Chennai	Power Systems
12	Mrs.K. V. Soumya	NIT, Warangal.	Power Systems
13	Mr. V. Badri Ramakrishnan	AMRITA, Coiambatore	Power Systems
14	Mr.B.Ramesh Babu	NIT, Warangal.	Power Electronics

- As shown in tables above 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.
- In addition to teaching the faculty is involved in various administrative responsibilities such as student mentoring and conducting certification courses, supervising projects, and others on a regular basis.

5.5.B: Number of Paper Publications in the domain areas by the faculty of the department.

Table: 5.5.B: Total paper publications made by the faculty during the assessment years:

S.NO.	Year	No. of Publications
1	2023-24(CAY)	71
2	2022-23(CAYm1)	93
3	2021-22(CAYm2)	20
4	2020-21(CAYm3)	33

Table 5.5.B. Sample of the Paper publications in respective domains during the assessment years:

2023-24(CAY)

S.No.	Domain	Name of the Faculty	Paper Publications

1	EPS	Dr.K.Ramesh Reddy	Performance Analysis of OTC and Improved PSO MPPT Techniques for DFIG-Based Wind Energy Conversion Systems
		Dr.N.Malla Reddy	Electric vehicle dc motor powered by hybrid energy storage system using ultra capacitor and lithium-ion battery
		P. BuchiBabu	Green Energy Management in DC Microgrids enhanced with robust model predictive control and muddled tuna swarm MPPT
		Dr.T.Hima Bindu	Grid-connected solar power generating systems with superior power quality controlled using PBT
		V Badri Ramakrishnan	A 1kw solar based stand alone dc grid for led lightning system, gadget charging for building space
		E Goutami Reddy	Modelling and Simulation of Solar Energy Storage System for Electric Vehicle
		Dr.T.Hima Bindu	SCIG Based wind Energy Conversion System Fed DC Micro Grid Using DTC
		VSuma Deepthi	A Novel Strategy For Ideal Distribution Static Synchronous Compensator Placement And Sizing
		Dr.K.Ramesh Reddy	An Intelligent Mechanism for Enhancing Power Quality in Grid-Tied DFIG Based Wind Energy System Using Simplified Vector-Controlled STATCOM
2	PE&ED	YPriyanka	A novel controller for enhancing the dynamic performance of a single phase cascaded H-bridge multilevel inverter
		K.V. DhanaLakshmi	Modelling and Simulation of a Hybrid Electric Vehicle with the Electric PowerTrain
3	CS	G Sujatha	Modelling and energy storage management systems using fuzzy logic controller with PMSM drive Hybrid electric vehicle
		V Badri Ramakrishnan	ML based Prediction for Grid support in a Solar Photovoltaic Electric Vehicle Charging Station
		K.V. DhanaLakshmi	1. Fault Analysis of Microgrid With Grid-Connected and Islanded mode Using IoT-Wavelet Approach. 2.IoT-Based Protection of PV-Wind Integrated Microgrid System Fault Analysis Using Wavelet Approach.

2022-23(CAYm1)

S.No.	Domain	Faculty	Paper Publications
1	PE&ED	K.Swarna Latha	Simulation and Analysis of Grid Connected system using Multilevel Inverter
		G Sujatha	Design and development of Brushless DC motor drive in Electrical Vehicle application
2	EPS	PVSSA Parimala	Maximum Boost Control of Quasi-Z-Source Inverter with DSTATCOM for a Wind Energy System.
		VSuma Deepthi	Optimal Placement And Sizing Of Dg And D-STATCOM In A Distribution System: A Review
		P.Tejaswi	Protection in Smart Building: Mini Review
3	CS	K . V. DhanLakshmi	Machine learning assessment of IoT managed microgrid protection in existence of SVC using wavelet methodology

2021-22(CAYm2)

S.No.	Domain	Faculty	Paper Publications
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1	EPS	Dr.N.Malla Reddy	Reduced Switch Multilevel Inverter Topologies And Modulation Techniques For Renewable Energy Applications	
		G Ujwala		
		PVSSA Parimala		D-STATCOM control using SRFT method for PQ improvement in a PV system
		P. Tejawasi		A Review on D-STATCOM Control Techniques for Power Quality Improvement in Distribution Modeling and Simulation of Grid-Connected Reconfigurable Solar Converter and Wind Hybrid Power System
2	PE&ED	E Goutami	Design Requirements of Solar Powered Plug In Hybrid Electric Vehicles	
		S .Bhulaxmi	Implementation of the modular multilevel converter and cascaded H- bridge multilevel inverter using SPWM	
		G Sujatha	Modelling and Design of an Electric Vehicle Fed with Dual Drive Motors using Hybrid Energy Storage System.	
3	CS	T.Surya Prakash	Machine Learning-Based Predictive Techno-Economic Analysis of Power System	
		K.V. DhanLakshmi	IoT Based Protection of Microgrid With Grid-connected and Islanded mode Using Wavelet Approach	

2020-21(CAYm3)

S.No.	Domain	Faculty	Paper Publications
1	PE&ED	Dr.N. Malla Reddy	Mathematical Analysis and Simulation of Permanent Magnet Synchronous Motor for Electric Vehicle Application
		Dr.Hima Bindu.T	“Direct power control for a multilevel inverter fed induction motor drive using predictive torque control”
2	EPS	Dr.K.RAMESH Reddy	Anew active power injection scheme using CHB –MLI DSTATCOM for PQ improvement
		Dr.R.Nageshwara Rao	Design of a Harmonic Filter for a Grid Connected Doubly Fed Induction Generator under Unsymmetrical Fault Conditions
		Dr.T.Surya Prakash	A Novel IUPQC for Multi-Feeder systems using Multilevel converters with Grid integration of Hybrid renewable energy systems
3	CS	Dr.K.Ramesh Reddy	Performance analysis of PI and fuzzy logic controlled D-STATCOM for PQ improvement
		K.V. Dhana Lakshmi	Significance of Wavelet and IoT techniques in micro-grid based power system protection.

Table 5.5.B.1.b. Conferences and Books and Book chapters**2023-24(CAY)**

S. No.	Name of the Faculty	Title of the book published	ISBN number
1	Dr.N.Malla Reddy	IoT based Tampered Energy Meter Monitoring	978-620-6-68661-3
2	Prof.G.Gopinath	Smart Robot Grass Cutter With Lawn Coverage Based On Solar Power	978-620-6-73952-4
3	Mr.G.Ramana Reddy	Smart Digital Water Management System	978-620-6-68657-6
4	Dr.R.NageswaraRao	Thyristor Power Control	978-620-6-68651-4
5	Mrs.G.Ujwala	IoT based Energy Meter with billing system and load prioritization	978-620-6-68559-3
6	Mrs.E.Goutami	Estimation of Energy requirement based on Vehicle Performance analysis using different Drive Cycles	978-620-6-68560-9
7	Mrs.K.Swarna Latha	Grid Connected System Using Multi-Level Inverter	978-620-6-68517-3
8	Mrs.K.Priyamvada	MPPT Based Battery Charging	978-620-6-68604-0
9	Mr.P.Buchi Babu	A Comparative Study Of P&O and Incremental Conductance Algorithm	978-620-6-68588-3

10	Mr.P.Sai Niranjan Kumar	Study Of Automatic Solar Street Light	978-620-6-73950-0
11	Mr.K.Pandu Kumar	Automated air cooled three level inverter system	978-620-6-73951-7
12	Ms.Y.Priyanka	A Novel Three Phase Multilevel Inverter with single DC Link for Induction Motor Drive Application	978-620-6-73844-2
13	Ms.G.Sujatha	Smart Traffic Signaling System	978-620-6-73805-3
14	Ms.P.Mamta	Design and performance analysis of an Electric Vehicle	978-620-6-73850-3
15	Mrs.K.V.Sowmya	Smart IoT based Energy meter with Load Management Algorithm	978-620-6-68601-9
17	V Badri Rama Krishnan	Smart Solar Charge Controller Using Synchronous Buck Converter	978-620-6-68524-1
18	Mrs.K.V.Dhana Lakshmi	A Novel Fault Tolerant Twenty-one Level Inverter with Induction Drive	978-620-6-18457-7
19	Mrs.P.V.S.S.A.Parimala	Solar PV Generation system Interfaced to 3-phase Grid with compensation	978-620-6-68570-8
20	Dr T. Hima Bindu	Hybrid Power Generation using wind and Solar Energy Monitoring	978-620-6-68636-1
21	Mrs.V Suma deepthi	Cuk Converter-based BLDC motor for water pumping system	978-620-6-68536-4
22	Dr. G Sateesh	Solar Powered Automatic Rain Protection For Field Crops Using ARDUINO	978-620-6-75189-2
23	Mrs.B.Abhinethri	Broadband over power line	978-620-6-73787-2
24	Mrs.S.Bhulakshmi	Seven Level Inverter	978-620-6-73744-5
25	Mr.Somu Chaithanya	Multilevel Inverters	978-620-6-73802-2
26	Mrs.K.V.Dhana Lakshmi	PQ Improvement of Electrified Transportation by Fuzzy Logic Control	978-620-6-18458-4
27	Mrs.V.Suma Deepthi	Capacitor Added DVR for SMES Emulator/Battery for Better Enactment	978-620-6-18497-3
28	Mrs.V.Suma Deepthi	Dual Axis Solar Tracker With Weather Monitoring System	978-620-6-73742-1
29	Dr N Malla Reddy	Density Based Traffic Control System	978-93-91462-76-5
30	Mr.G.Ramana Reddy	Digitalized Smart Water Management System	978-93-91462-77-2
31	Dr. R Nageswara ao	A novel bidirectional T-Type multilevel inverter for electric vehicle applications	978-93-91462-78-9
32	Mrs.K.Priyamvada	Cogeneration Of Grid-Connected Wind-Photovoltaic System Using back-To-Back voltage source converters	978-93-91462-79-6
33	Mr.V Badri Rama Krishnan	Mppt Using P And O Algorithm	978-93-91462-80-2
34	Dr.P.Rama Krishna Reddy	Design of single phase transformer of various sizes using MATLAB	978-93-91462-81-9
35	Dr.G.Annapurma	Design and Simulation of Electrical Power System of Nano Satellite	978-93-91462-82-6
36	Mrs.G.Ujwala	Mppt Based Performance Enhancement Of Integrated Hybrid Wind-Solar Energy System	978-81-19385-67-6
37	Mr.P.Buchi Babu	A Single Phase Voltage Controlled Grid Connected Photovoltaic System With Power quality Conditioner Functionality	978-81-19385-68-3
38	Mr.P.SaiNiranjan Kumar	Development of an integrated power converter for fast charging and efficiency Enhancement In Electric Vehicles	978-81-19385-69-0
39	Mrs.Y.Priyanka	Solar energy management of microgrid using Battery and Super capacitor By DC-DC converter	978-81-19385-70-6
40	Mr.Ch.LeelaKrishna	Automatic Power Factor Correction Using Arduino Microcontroller	978-81-19385-71-3

41	Mrs.G.Sujatha	Different levels of diode clamped multi-Level inverter Fed By Non-Isolated DC-DC Converter	978-81-19385-72-0
42	Dr T. Himabindu	Low Voltage Ride through capability And Improvement Of Power Quality In hybridwind-Pvfarmsgrid Connected Using dynamic voltage restorer	978-81-19385-73-7
43	Mrs.V Suma deepthi	IoT based Battery Management System using Solar Energy	978-81-19385-74-4
44	Dr. G Sateesh	Under Distorted current and Voltage Conditions :Analyzing The Performance Of PV-UPQC	978-81-19385-75-1
45	Mr.P.SaiNirajan Kumar	Study Of Automatic Solar Street Light	978-81-19385-76-8
46	Dr. P Ramakrishna Reddy	Bidirectional Control Principle of ATHPF	978-81-19385-17-1
47	Mrs.P.Mamta	Monitoring And Control Of Substation Parameters Using Gsm Module	978-81-19385-18-8
48	Mrs.P.V.S.S.A.Parimala	D-STATCOM control with SRFT method for PQ Improvement in a PV system	978-81-19385-19-5
49	Mrs.K.V.Sowmya	Modeling And Performance Enhancement Of Solar-Wind Hybrid Energy System	978-81-19385-20-1
50	Dr.T.Hima Bindu	Grid-connected solar power generating systems with superior power quality controlled using PBT	979-8-3503-9619-5
51	Dr.T.HimaBindu	SCIG Based wind Energy Conversion System Fed DC Micro Grid Using DTC	979-8-3503-3619-5
52	Dr.K.Ramesh Reddy	DFIG-Based Wind Energy Conversion System with BESS for Stable Operation of Medium Voltage Distribution System	978-981-99-9707-7

5.5.B.2 PATENTS PUBLISHED/GRANTED:**Table: 5.5.B.2 PATENTS PUBLISHED/GRANTED:**

Sl. No.	Patent Application No.	Status Of Patent (Published / Granted)	Inventor/S Name	Title
1	202341088369 A	Published	Suma Deepthi Veeraganti	ARDUINO MICROCONTROLLER BASED SMART R
			Dr. Kolli Ramesh Reddy	
			Dr. Nomula Malla Reddy	
			Mr. Ramana Reddy Gurrampati	
			Jillela Manisha Reddy	
			Jetpolu Swathika	
			Bolleboina Sravanthi	
			Gurram Srinidhi	
			Chenagoni Aishwarya	

2	202441001251 A	Published	Mrs. P. V. S. S. A Parimala	METHOD AND SYSTEM FOR PROVIDING DYNAMI
			Dr. K. V. Dhanalakshmi	
			Mrs. Y. Priyanka	
			Mr. Somu Chaitanya	
			K. Bhavana	
			M. Vaishnavi	
			Ch. Chaitanyasri	
			S. Lakshmi	
			Sai Himamsa	
			G. Divya	
3	202341088368 A	Published	Gottam Sujatha	A NOVEL SMART DEVICE FOR PROVIDING WOMEN
			Dr. Kolli Ramesh Reddy	
			Dr. Ranuva Nageswara Rao	
			Dr. Gootu Annapurna	
			A. Hindu Sri	
			R. Sathvika	
			K. Vinuthna	
			J. Triveni	
4	202341088576 A	Published	Dr. Ponnuru Ramakrishna Reddy	METHOD AND SYSTEM FOR PROVIDING SOLAR P
			Mrs. Gouthami Eragmareddy	
			Mr. Prathikantham Buchibabu	
			Mr. Vangipuram Badri Ramakrishnan	
			K. Sri Varsha	
			J. Meghana	
			N. Pranitha	
			G. Tejaswi	
P. Tejasri				

5	202441001165 A	Published	Mrs. Kanchugantala Priyamvada	GRID-CONNECTED WIND-PHOTOVOLTAIC COG CONVERTERS
			Mr. Gurrampati Ramana Reddy	
			Mrs. Byreddy Narmada	
			Mrs. Patri V.S.S.A. Parimala	
			Pokuri Mamta	
			Mrs. Kandukuri Swarna Latha	
			V.Beulah Sangeetha	
			Dr B.R.Lakshmi Sreevalli	
			Metta Oggu Sujana	
6	202441002356 A	Published	Mrs. Kandukuri Swarna Latha	DECISION MAKING MODELS AND WORKING MO: SYSTEM
			Mrs. Boreddy Abhinethri	
			Mrs. Byreddy Narmada	
			Mrs. Kanchugantala Priyamvada	
			Mrs. Koganti Venkata Soumya	
			Mr. Pathkota Sai Niranjan Kumar	
			Mrs. Anupama Venugopal	
			Mrs. Hima Bala	
			Mrs. P.M.S. Hallika	
Mr. K. Naresh				
7	202341088580 A	Published	Dr. K V Dhana Lakshmi	Method And System For Enabling Power Saving Mechan
			Dr. Himabindu T	
			K V Soumya	
			Dr. J. Pragathi	
			G. Naga Mallika	
			E. Sai Sruthi	
			V. Prathika	
			R. Susmitha	
G. Bhargavi				

8	202441002416 A	Published	Pathkota Sai Niranjan Kumar	Development Of An Integrated Power Converter For Fast
			Dr. Nomula Malla Reddy	
			Ujwala Gajula	
			Dr. Gundlapalli Satheesh	
			Saggurthi Bhulakshmi,	
			Chintalapudi Leela Krishna	
			Dr. K. Shyamala Devi smitha Mahindrakar	
			N. Hiranmai M. Yashwanth Kumar	
9	202441014344 A	Published	Gottam Sujatha	IOT-BASED SMART PARKING SYSTEM
			Mr. Chintalapudi Leela Krishna	
			Dr. Gundlapalli Satheesh	
			P. Mounika	
			Ch. Sai Sreeja	
			M. Vidya	
			N. Snehitha	
			B. Gouthami	
10	202441013036 A	Published	Dr. Gooty Annapurna	A NOVEL THREE PHASE MULTILEVEL INVERTER
			Mrs. Yerpula Priyanka	
			Mrs. Patri V.S.S.A. Parimala	
			Mr. Chintalapudi Leela Krishna	
			Veeraganti Sumadeepthi	
			Gottam Sujatha	
			Dr B. Sushma	
			Mrs. D. Niharika Dr Veeraswami Yaraganimr. S. N. Sarveswara Reddy	
11	2021101117	Published	Dr. T. Surya Prakash	Smart EV charging time estimation system and method th
			Mrs. B.Narmada	
12	202141035598 A	Published	Mrs.E.Gouthami Mrs.G.Ujwala	IOT based smart energy theft detection and
13	2021100745	Granted	Dr. T. Surya Prakash	Smart fault detection and monitoring system in Solar pan
			Mrs. B.Narmada	
14	2020103897	Granted	Dr. B. Ravichandra Rao	An Efficient and Automated Smart Heating Bucket

15	202041053099	Granted: Patent No. 427916	Dr. T. Surya Prakash Mrs. B.Narmada	Self-Power Generating intelligent Electric vehicle
16	2020103327	Granted	Dr. P. Rama Krishna Reddy Dr. T. Surya Prakash	Advanced Grid Connected Systems: Intelligent Power C Systems
17	2020103307	Granted	Dr. P.Rama Krishna Reddy Dr. R. Nageswara Rao Dr. B. Ravichandra Rao Dr. T. Surya Prakash	Machine Learning-Based Power Quality Improvement Sy
18	2021101117	Granted	Dr. T. Surya Prakash Mrs. B.Narmada	Renewable Energy Sources automatic connection to smar
19	201941045730	Published	Dr.T.Surya Prakash	Novel Interline Unified Power Quality Conditioner(IUPQ
20	202141035598 A	Published	Mrs E Gouthami Mrs G .Ujwala	Fertilizer Usage Monitoring and Price Estimation System
21	202141050407	Published	Mrs.K.Swarnalatha	An AI based EV battery charging controller with enhance
22	202341043217 A	Published	Mr. Somu Chaitanya	IoT-driven Smart Home Automation
23	202341088579 A	Published	V. Badri Ramakrishnan	Method and system for eye blink controlled wheel chair f

5.5.B. Research Publications:**5.5.B.1. Paper Publications.****5.5.B.1.a.Journals****5.5.B.1.b Conferences/ Books/ Book chapters****5.5.B.2. Patents****Table :5.5.B.1.a.List of Journals published by the faculty during respective academic years:****For the Current A.Y.2023-24:**

S. No	Title	Author	ISSN NO/ DOI/ ISBN	Scopus/Web of Science/IEEE/Spr inger	Title of the journal
1	A 1kW Solar Based Stand Alone Dc Grid For Led Lightning System, Gadget Charging For Building Space	V. Badri Rama Krishnan	1005-0299	Scopus	Material science and Technology
2	Fault Analysis of Microgrid With Grid-Connected and Islaned mode Using IoT-Wavelet Approach	K.V.Dhanalakshmi	1112-5209	Web of science (ESCI)	Journal of Electrical Systems
3	Electric Vehicle Dc Motor Powered By Hybrid Energy Storage System Using Ultra Capacitor And Lithium-Ion Battery	Dr.N.Malla Reddy	1005-0299	Scopus	Material science and Technology
4	Modelling and energy storage management systems using fuzzy logic controller with PMSM drive Hybrid electric vehicle	G.Sujatha	1005-0299	Scopus	Material science and Technology

5	A novel controller for enhancing the dynamic performance of a single phase cascaded H-bridge multilevel inverter	Y.Priyanka	1005-0299	Scopus	Material science and Technology
6	A Novel Strategy For Ideal Distribution Static Synchronous Compensator Placement And Sizing	Mrs. V.Sumadeepthi	2366-1313	Web of Science	ZKG International
7	Green Energy Management in DC Microgrids enhanced with robust model predictive control and muddled tuna swarm MPPT	Mr. P. Buchibabu	NA	Springer	Electrical Engineering

For the Current A.Y.2022-23 (CAY-1):

S. No	Author	Title	Journal/Conference
1	Mrs.P.V.S.S.A. Parimala	A comprehensive review on the advances in renewable wind power technology	Wind Engineering Journal
2	K.Swamalatha	Simulation and Analysis of Grid Connected system using Multilevel Inverter	GIS Science Journal

For the Current A.Y 2021-22(CAY-2):

S.No.	Author	Title of the publication	Journal/conference
1	Dr.T.Surya Prakash	Machine Learning-Based Predictive Techno-Economic Analysis of Power System	IEEE Access
2	SAGGURTHI BHULAKSHMI	Implementation of the modular multilevel converter and cascaded H-bridge multilevel inverter using SPWM	(TOJQI) Turkish Online Journal of Qualitative Inquiry
3	G Sujatha	Modelling and Design of an Electric Vehicle Fed with Dual Drive Motors using Hybrid Energy Storage System	International Journal of Innovative Technology and Exploring Engineering (IJITEE)
4	Ujwala Gajula Dr.N.MallaReddy	Reduced Switch Multilevel Inverter Topologies And Modulation Techniques For Renewable Energy Applications	Turkish Journal of Computer and Mathematics Education
5	Gouthami Eragamreddy	Design Requirements of Solar Powered Plug In Hybrid Electric Vehicles	Turkish Journal of Computer and Mathematics Education
6	P.V.S.S.A. Parimala	D-STATCOM control using SRFT method for PQ improvement in a PV system	IJITEE

For the Current A.Y 2020-21(CAY-3):

S. No.	Author	Title of the publication	Name of Publisher
1	Dr.Himabindu.T	“Direct power control for a multilevel inverter fed induction motor drive using predictive torque control”	GRENZE International Journal of Engineering and Technology (GIJET)
2	Dr. N. Malla Reddy	Mathematical Analysis and Simulation of Permanent Magnet Synchronous Motor for Electric Vehicle Application	International Journal of Innovative Technology and Exploring Engineering (IJITEE)
3	K.V.Dhanalakshmi	Significance of Wavelet and IoT techniques in micro-grid based power system protection.	IEEE Xplore

4	Dr.K.Ramesh Reddy	Anew active power injection scheme using CHB –MLI DSTATCOM for PQ improvement	International Journal of emerging trends in engineering research
5	Dr.K.Ramesh Reddy	Performance analysis of PI and fuzzy logic controlled DStatcom for PQ improvement	International Journal of emerging trends in engineering research
6	Dr.R. Nageswara Rao	Design of a Harmonic Filter for a Grid Connected Doubly Fed Induction Generator under Unsymmetrical Fault Conditions	IJITEE, March 2020
7	T.Surya Prakash	A Novel IUPQC for Multi-Feeder systems using Multilevel converters with Grid integration of Hybrid renewable energy systems	IEEE Access
8	Mr.S.L.V.Sravan Kumar	An Integrated Boost Parallel Flyback Converter for Multi Load Applications	IJITEE
9	Dr.S.S.Tulasi Ram	Cost allocation of transmission line using fact devices	IJITEE
10	T.Surya Prakash	A New topology of interline unified power quality conditioner for multi feeder systems	Springer-LAIS
11	Y.Priyanka	STATCOM Based Multilevel Inverter Modelling and Simulation	IJRTE
12	K.Krushna Murthy	Improved Automatic Generation Control of Interconnected Power System	IJRTE
13	P.Suresh	Comprehensive Examination on solar – Wind Energy Systems Grid Integration and Emerging Power Quality Challenges	IJEAT
14	P.Tejaswi	Multilevel UPQC Fed Grid connected Hybrid system for sag and swell mitigation	IJRTE
15	Dr.S.S.Tulasi Ram	Different ANN models for short term electricity price forecasting	IJRTE
16	Dr.S.S.Tulasi Ram	A New technique for transmission loss allocation in a deregulated electricity market	IJRTE
17	Mr.K.Pandu Kumar, S.L.V. Sravan Kumar	Integrated Buck Boost Series Parallel Fly-Back Converter for Electronic Ballast and LED Drive Applications	IJRTE
18	P.Tejaswi, G.Sujatha	Sag and swell mitigation and power quality improvement in grid connected hybrid system using UPQC	Journal of Physics

5.5.B.1.b. Conferences, Books & Book chapters:

SI. No.	Name of the Faculty	Title of the book published	ISBN number
1	Dr.N.Malla Reddy	IOT based Tampered Energy Meter Monitoring	978-620-6-68661-3
2	Prof.G.Gopinath	SMART ROBOT GRASS CUTTER WITH LAWN COVERAGE BASED ON SOLAR POWER	978-620-6-73952-4
3	Mr.G.Ramana Reddy	SMART DIGITAL WATER MANAGEMENT SYSTEM	978-620-6-68657-6
4	Dr.R.NageswaraRao	Thyristor Power Control	978-620-6-68651-4
5	Mrs.G.Ujwala	IoT based Energy Meter with billing system and load prioritization	978-620-6-68559-3
6	Mrs.E.Goutami	Estimation of Energy requirement based on Vehicle Performance analysis using different Drive Cycles	978-620-6-68560-9

7	Mrs.K.Swarna Latha	Grid Connected System Using Multi-Level Inverter	978-620-6-68517-3
8	Mrs.K.Priyamvada	MPPT Based Battery Charging	978-620-6-68604-0
9	Mr.P.Buchi Babu	A Comparative Study Of P&O and Incremental Conductance Algorithm	978-620-6-68588-3
10	Mr.P.Sai Niranjan Kumar	STUDY OF AUTOMATIC SOLAR STREET LIGHT	978-620-6-73950-0
11	Mr.K.Pandu Kumar	AUTOMATED AIR COOLED THREE LEVEL INVERTER SYSTEM	978-620-6-73951-7
12	Ms.Y.Priyanka	A Novel Three Phase Multilevel Inverter with single DC Link for Induction Motor Drive Application	978-620-6-73844-2
13	Ms.G.Sujatha	Smart Traffic Signaling System	978-620-6-73805-3
14	Ms.P.Mamta	Design and performance analysis of an Electric Vehicle	978-620-6-73850-3
15	Mrs.K.V.Sowmya	Smart IoT based Energy meter with Load Management Algorithm	978-620-6-68601-9
17	V Badri Rama Krishnan	SMART SOLAR CHARGE CONTROLLER USING SYNCHRONOUS BUCK CONVERTER	978-620-6-68524-1
18	Mrs.K.V.DhanaLakshmi	A Novel Fault Tolerant Twenty-one Level Inverter with Induction Drive	978-620-6-18457-7
19	Mrs.P.V.S.S.A.Parimala	Solar PV Generation system Interfaced to 3-phase Grid with compensation	978-620-6-68570-8
20	Dr T. Hima Bindu	Hybrid Power Generation using wind and Solar Energy Monitoring	978-620-6-68636-1
21	Mrs.V Suma deepthi	Cuk Converter-based BLDC motor for water pumping system	978-620-6-68536-4
22	Dr. G Sateesh	SOLAR POWERED AUTOMATIC RAIN PROTECTION FOR FIELD CROPS USING ARDUINO	978-620-6-75189-2
23	Mrs.B.Abhinethri	Broadband over power line	978-620-6-73787-2
24	Mrs.S.Bhulakshmi	Seven Level Inverter	978-620-6-73744-5
25	Mr.Somu Chaithanya	Multilevel Inverters	978-620-6-73802-2
26	Mrs.K.V.DhanaLakshmi	PQ Improvement of Electrified Transportation by Fuzzy Logic Control	978-620-6-18458-4
27	Mrs.V.SumaDeepthi	Capacitor Added DVR for Smes Emulator/Battery for Better Enactment	978-620-6-18497-3
28	Mrs.V.SumaDeepthi	Dual Axis Solar Tracker With Weather Monitoring System	978-620-6-73742-1

29	Dr N Malla Reddy	Density Based Traffic Control System	978-93-91462-76-5
30	Mr.G.Ramana Reddy	Digitalized Smart Water Management System	978-93-91462-77-2
31	Dr. R Nageswara rao	A novel bidirectional T-Type multilevel inverter for electric vehicle applications	978-93-91462-78-9
32	Mrs.K.Priyamvada	Cogeneration Of Grid-Connected Wind-Photovoltaic System Using back-To-Back voltage source converters	978-93-91462-79-6
33	Mr.V Badri Rama Krishnan	Mppt Using P And O Algorithm	978-93-91462-80-2
34	Dr.P.Rama Krishna Reddy	Design of single phase transformer of various sizes using MATLAB	978-93-91462-81-9
35	Dr.G.Annapurna	Design and Simulation of Electrical Power System of Nano Satellite	978-93-91462-82-6
36	Mrs.G.Ujwala	Mppt Based Performance Enhancement Of Integrated Hybrid Wind-Solar Energy System	978-81-19385-67-6
37	Mr.P.Buchi Babu	A Single Phase Voltage Controlled Grid Connected Photovoltaic System With Power quality Conditioner Functionality	978-81-19385-68-3
38	Mr.P.SaiNiranjan Kumar	Development of an integrated power converter for fast charging and efficiency Enhancement In Electric Vehicles	978-81-19385-69-0
39	Mrs.Y.Priyanka	Solar energy management of microgrid using Battery and Super capacitor By DC-DC converter	978-81-19385-70-6
40	Mr.Ch.LeelaKrishna	Automatic Power Factor Correction Using Arduino Microcontroller	978-81-19385-71-3
41	Mrs.G.Sujatha	Different levels of diodeclamped multi-Level inverter Fed By Non-Isolated Dc-Dc Converter	978-81-19385-72-0
42	Dr T. Himabindu	Low Voltage Ride through capability And Improvement Of Power Quality Inhybridwind-Pvfarmsgrid Connected Using dynamic voltage restorer	978-81-19385-73-7
43	Mrs.V Suma deepthi	IoT based Battery Management System using Solar Energy	978-81-19385-74-4
44	Dr. G Sateesh	Under Distorted current and Voltage Conditions :Analyzing The Performance Of PV-UPQC	978-81-19385-75-1
45	Mr.P.SaiNiranjan Kumar	Study Of Automatic Solar Street Light	978-81-19385-76-8
46	Dr. P Ramakrishna Reddy	Bidirectional Control Principle of ATHPF	978-81-19385-17-1
47	Mrs.P.Mamta	Monitoring And Control Of Substation Parameters Using Gsm Module	978-81-19385-18-8
48	Mrs.P.V.S.S.A.Parimala	D-STATCOM control with SRFT method for PQ Improvement in a PV system	978-81-19385-19-5
49	Mrs.K.V.Sowmya	Modeling And Performance Enhancement Of Solar-Wind Hybrid Energy System	978-81-19385-20-1

50	Dr.T.HimaBindu	Grid-connected solar power generating systems with superior power quality controlled using PBT	979-8-3503-9619-5
51	Dr.T.HimaBindu	SCIG Based wind Energy Conversion System Fed DC Micro Grid Using DTC	979-8-3503-3619-5
52	Dr.K.Ramesh Reddy	SCIG Based wind Energy Conversion System Fed DC Micro Grid Using DTC	978-981-99-9707-7

For the A.Y 2022-23(CAY-3):

Sl. No.	Name of the Faculty	Title of the chapters published	ISBN number
1	G. Eragamreddy	Modeling and Simulation of Solar Energy Storage System for Electric Vehicle	55651.2022.100943 23
2	G.Sujatha	Design and development of Brushless DC motor drive in Electrical Vehicle application	978-981-19-2184-1
3	P.Tejaswi	Protection in Smart Building: Mini Review	978-100-32-0106-9
4	Suma Deepthi Veeraganti	OPTIMAL PLACEMENT AND SIZING OF DG and D-STATCOM IN A DISTRIBUTION SYSTEM: A REVIEW	55017.2022.985101 6
5	P.Tejaswi	A Review on D-STATCOM Control Techniques for Power Quality Improvement in Distribution	978-1-6654-3523-9
6	P.Tejaswi	Modeling and Simulation of Grid-Connected Reconfigurable Solar Converter and Wind Hybrid Power System	978-1-6654-4607-5

For the A.Y 2021-22(CAY-2):

Sl. No.	Name of the Faculty	Title of the chapters published	ISBN number
1	K.V.Dhanalakshmi	IoT Based Protection of Microgrid With Grid-connected and Islanded mode Using Wavelet Approach	978-1-7281-9951
2	P Mamta	Identification of Insomnia Based on Discrete Wavelet Transform Using Time Domain and Nonlinear Features	978-981-33-6862
3	K.V.Dhanalakshmi	Significance of Wavelet and IoT techniques in micro-grid based power system protection.	978-1-7281-9951-1

5.5.C: Course Developments

Table. 5.5.C: Courses developed in major domain areas for regulation GNR-22 which was implemented from academic year 2022-23. Courses include both theory and practical. Theory courses are designed for the main EEE students and also service subjects to other departments.

Table. 5.5.C: Courses developed

S.NO.	Name of the Course	Year and Semester during which the course is taught	
1	Special Machines	Third year Sem-I	Dr.N.Mal Mr.P.Buc
2	Electrical Machines Modelling and Analysis	Third year Sem-I	Dr.G.Ann Mrs. Y. P.
3	Computer Aided Machine Design	Third year Sem-I	Dr.N.Mal Mr.P.Buc
4.	Electrical and Hybrid Vehicles	Third year Sem-I	Dr.N.Mal Mrs. E.G

5	Power Systems -II	Third year Sem-I	Dr.P.Ram Mr.P.Buc
6	Power Systems Protection	Third year Sem-I	Mrs.K.Sv Mrs. V. S
7	Power System Analysis	Third year Sem-I	Dr.R.Nag Mr.Ch.Le
8	Utilization of Electrical Engineering	Third year Sem-I	Dr.G.Ann Mrs. G.Su
9	High Voltage Engineering	Third year Sem-I	Dr.G.Satf Mr.K.Pan
10	Power System operation and control	Third year Sem-I	Dr.P.Ram Dr.R.Nag
11	Electrical Distribution Systems	Third year Sem-I	Dr.R.Nag Mrs.K.Pr
12	Power Systems Lab	Third year Sem-I	Dr.P.Ram Dr.R.Nag
13	EHVAC Transmission	Third year Sem-I	Mrs.K.Sv Dr.K.V.D
14	Smart Electric Grid	Third year Sem-I	Mrs.K.Sv Mr.V.Bad
15	Power Electronics	Third year Sem-I	Mr.G.Rar Mr.P.Sai]
16	Power Electronics lab	Third year Sem-I	Mr.G.Rar Mr.P.Sai]
17	Power Semiconductor Drives	Fourth year Sem-II year Sem-I	Dr.N.Mal Mrs.Narn
18	Power Quality and FACTS	Fourth year Sem-II year Sem-I	Dr.T.Sury Mrs.Y. Pr
19	HVDC Transmission	Fourth year Sem-II year Sem-I	Dr.G.Ann Mrs.Y. Pr
20	Power Semiconductor Drives Lab	Fourth year Sem-II year Sem-I	Dr.N.Mal Mrs.Narn

21	Electrical and Electronics Instrumentation	Four year Sem-I	Mrs.Y. Pr Mrs. G.St
22	Electrical and Electronics Instrumentation lab	Fourth year Sem-I	Mrs.Y. Pr Mrs. G.St
23	Digital Control Systems	Third year Sem-I	Prof.G.Gu Mrs.P.Ma
24	Control Systems lab	Third year Sem-I	Prof.G.Gu Mrs.P.Ma
25	Electrical Materials	Third year Sem-I	Prof.G.Gu Mrs.P.Ma
26	Renewable Energy Sources	Third year Sem-I	Mrs.K.Pr Mrs.K.V.:
27	Grid Integration of Renewable Energy Sources	Fourth year Sem-II	Mrs.K.Pr Mrs.K.V.:
28	Waste Management Techniques and Power Generation	Fourth year Sem-II	Mrs.K.Pr Mrs.K.V.:
29	Programmable Logic Controllers and Applications	Third year Sem-I	Dr.B.Rav Mr.V.Bad
30	Sensors and Transducers	Third year Sem-I	Dr.R. Nag Mr.V.Bad
31	Fuel cell Technologies	Third year Sem-I	Dr.N.Mal Mrs.E.Ge
32	AI Techniques in Electrical Engineering	Fourth year Sem-II	Dr.B.Rav Mr.V.Bad
33	VLSI Technology	Fourth year Sem-II	Dr.B.Rav Mr.V.Bad
34	Electrical Circuit Analysis: Theory	Second year Sem-I	Dr.T.Sury Mrs. Nar
35	Fields & DC Machines	Second year Sem-I	Prof. G. C Dr.K.V.D
36	Control Systems	Second year Sem-II	Dr.R. Nag Mr.Ch. L
37	AC Machines	Second year Sem-II	Dr.N.Mal Mr.K. Kr

38	Power Systems-I	Second year Sem-II	Dr.P.Ram Dr.R. Nag
39	Electrical Machines Lab	Second year Sem-II	Dr.N.Mal Mr.K. Kr
40	Basic Electrical Engineering : Theory	First year Sem-I	Mr.G.Rar Mr.Ch.Le
41	Basic Electrical Engineering : Lab	First year Sem-I	Mr.G.Rar Mr.Ch.Le
42	Electrical Circuit Analysis: Theory and Laboratory	Second year Sem-I	Dr.T.Sury Mrs. Nar

5.5.D. OTHERS:**Table 5.5.D. Information regarding the participation of faculty in various events:****I. Reviewers****II. BoS members****III. Resource Person****IV. Memberships in Professional Bodies****V. Faculty Development Programs(FDP) / Professional Development Programs(PDP) conducted and Attended****VI. Awards to Faculty**

Tables mentioned below support the data mentioned above in detail:

Table 5.5.D.I. Information regarding the participation of faculty as Reviewers:

S.No.	Name of the Faculty	Event Name	Date(s) of event(s)	Papers reviewed
1.	Mrs. E. Gouthami	International Journal of Electrical and Computer Engineering Systems Article Review	January 2024	Measurement of State of Charge of Lithium-Nickel Manganese Cobalt Battery using Artificial Neural Network and NARX Algorithm.
2.	Dr.K.V.Dhana Lakshmi	e-prime- Advanced in Electrical Engineering, Electronics, E	August 2023	Baghdads Solar Power Potential: An Exploration with PV system and Helioscope.
			October 2023	Implementation of Optimal Scheduling of Domestic Appliances for IoT-based Intelligent Smart Energy Management Systems with PV Microgrid
3	Ms.P.Mamta	2 nd International Conference on mobile networks and wireless communication (ICMNBC-2022), Organised by Sri Sidharatha Institute of Technology , Tumkuru, India,in association with IEEE Banglore section	2 nd -3 rd Dec 2022	i. Soil and Crop Categorization Using Machine Learning ii. Exploration of SSVEP-Based Brain Computer Interface System for Managing Disabilities

4	Ms.P.Mamta	Reviewed Research Paper contributed to biomedical signal Processing and Control, Elsevier journal	Dec-2023	Explainable Ensemble Deep Learning-Based Model for Brain Tumour Detection and Classification
5	Dr. T.Hima Bindu	ICONWIL 2024	Feb- 2024	i. ChatGPT for use case design in Work Integrated Learning. ii. Innovation and Learning Technologies. iii. AI-Infused Academic Planning for Student Excellence.

Table 5.5.D.II: Details of the faculty acting as BoS members and other honourable positions internal and other organisations during the assessment period:

S.No.	Name of the Faculty	Organisation
1.	Dr. K. Ramesh Reddy	BOS of JNTUH
2.	Dr. P. Rama Krishna Reddy	BOS of MGIT and GNITS
3.	Dr. N.Malla Reddy	BOS of of GNITS
4.	Dr. G. Annapurna	BOS of GNITS, Member Executive Council, JNTUH.
5.	Dr.R.Nageswara Rao	BOS of GNITS
6.	Dr. S.S. Tulasi Ram	BOS of JNTUH
7.	Prof. G. Gopinath	BOS of GNITS

Table: 5.5.D.III: List of the Faculty as resource persons/ guest lectures:

S.No.	Name of the faculty	Date of the event	Organisation	Title of the Lecture/Workshop
1.	Dr. N. Malla Reddy	19 -02-2024 to 23-02-2024	Internal	Five day Faculty Development Program on " Electric Vehicles and role of BMS"
2.	Mrs. Narmada Byreddy			
3.	Mrs. E.Goutami			
4.	Mrs. K.V. Sowmya			
1.	Dr. P. Rama Krishna Reddy	09-10-2023 to 13-10-2023	Internal	Faculty Development Program on "Advanced MATLAB Tool boxes".
2	Dr. R.Nageswara Rao			
3	Dr.G. Annapurna			
4	Prof. G. Gopinath			
5	Mr.G. Ramana Reddy			
6	Porf. G. Gopinath	20/02/2023 to 21/02/2023	Internal	A two day work-shop on "Hands-on practice of domestic electrical appliances"
7	Dr. N. Malla Reddy			
8	Mr.G. Ramana Reddy			
9.	Mr. P. Sai Niranjan Kumar			
10.	Mr. Ch. Leela Krishna			

11.	Mr.V.Badri Rama Krishnan	2/03/2022 to 5/03/2022	Internal	A Four Day Hands-on workshop on “Hardware Implementation of Basic Power Electronic Converters”
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5.5.D.IV.FACULTY MEMBERSHIPS IN PROFESSIONAL BODIES:**Table 5.5.D.IV.FACULTY MEMBERSHIPS IN PROFESSIONAL BODIES:**

S.No.	Name of the Faculty	Organization/Category of Membership/ID			
		The Institute of Engineers-IEI	Indian Society for Technical Education- ISTE	The Indian Science Congress Association- ISCA	Institution of Electronics and Telecommunications Engineers--IETE
1	Dr.P.Rama Krishna Reddy	IEI Membership/Life Fellow/ M-154033-5	ISTE/LM107582	ISCA/ L28213(LM)	IETE/ M-238131
2	Dr.N. Malla Reddy		ISTE/LM33690		
3	Dr.G.Annapurna	IEI Membership/Life Fellow/ M-1680506	ISTE/LM33689		IEEE/99390675
4	G.Ramana Reddy		ISTE/LM33691		
5	Prof.G.Gopinath	IEI Membership/Life Fellow/ M-115244/5	ISTE/LM8191		SESI/ LM6769
6	G.Ujwala	IEI Membership/Life Fellow/ M-1677912	ISTE/LM130495	IAENG/M256653	IEEE/92348935 (Member-2021)
7	E.Gouthami	IEI Membership/Life Fellow/ M-1678035	ISTE/LM130496	IAENG/M256650	IEEE/92501531 (Member 2021)
8	P.Buchibabu	IEI Membership/Life Fellow/ M-1709644			
9	Ch.Leela Krishna	IEI Membership/Associate Member/ AM-1919590			
10	G.Sujatha	IEI Membership/Member/ M-1685486			
11	P.Mamtha				IEEE/94297628
12	Dr.T.Hima Bindu				IEEE/85019833
13	K.Swarna Latha		ISTE/LM95048		IEEE/98989765
14	Dr.G.Satheesh		ISTE/LM77531	IAENG/LM313220	

5.5.D.IV.(a) Position of faculty in various Professional bodies at Institute level:

1.Dr.N.Malla Reddy,Mentor, IEEE Student Branch.

2. Mr.G.Ramana Reddy, IEI GNITS Faculty co-ordinator.
3. Mrs.K Swarna Latha, IEEE -PELS Faculty advisor, Student Branch.
- 4.Dr.Himabindu.T,
 - IEEE Student branch counsellor,
 - IEEE -IES Faculty advisor, Student Branch.
 - IEEE-IES EXECOM Member, Hyderabad section

5.5.D. V.FDPs/PDPs conducted in the department during the assessment years.

5.5.D.V.a.FDPs/ work shops conducted in the department during the assessment year 2023-24:

S.No	Period of conduction	FDP/Workshop organized	Faculty co-ordinators
1	09-10-2023 to 13-10-2023	Faculty Development Program on "Advanced MATLAB Tool boxes".	Mr.G.Ramana Reddy, Assoc.Prof. Ms.G.Ujwala, Asst.Prof.

5.5.D.V.b.FDPs/ work shops conducted in the department during the assessment year 2022-23:

S.No	Period of conduction	FDP/Workshop organized	Faculty co-ordinators
1	20/02/2023 to 21/02/2023	A two day work-shop on "Hands-on practice of domestic electrical appliances"	Mr.K.Pandu Kumar, Assistant Professor, EEE Dept.

5.5.D.V.c.FDPs/ work shops conducted in the department during the assessment year 2021-22:

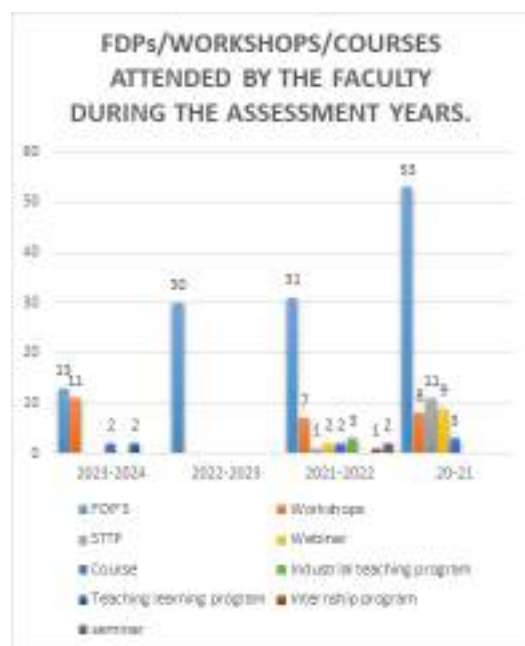
S.No	Period of conduction	FDP/Workshop organized	Faculty co-ordinators
1	26/07/2021 to 02/08/2021	One Week Offline Faculty Development Training Program on "FPGA, DSP trainer kits"	E. Goutami, Assistant Professor, EEE P.Buchibabu, Assistant Professor, EEE Dr.Himabindu.T, Assistant Professor, EEE
2	25/04/2022 to 06/05/ 2022	2 week online FDP on "Advanced Power Electronics, Drives & Storage Systems for E-Transportation in India"	K.Swarnalatha, Assistant Professor, EEE
3	2/03/2022 to 5/03/2022	A Four Day Hands-on workshop on "Hardware Implementation of Basic Power Electronic Converters"	Mr.V.Badri Rama Krishnan, Assistant Professor, EEE

5.5.D.V.d. FDPs and WORK SHOPS CONDUCTED BY FACULTY 2020-21:

S.No	Period of conduction	FDP/Workshop organized	Faculty co-ordinators
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1	16/06/2020 to 20/06/2020	Five day Online FDP on Recent Challenges and Emerging Techniques in Microgrid.	Mrs.P.Tejaswi Asst prof EEE Dept Mrs.G.Sujatha Asst prof EEE Dept Mrs.P.Mamtha Asst prof EEE Dept Mrs.KV Sowmya Asst prof EEE Dept
2	21/06/2021 to 26/06/2021	Electric and Hybrid Vehicle Engineering	Mrs.E.Gouthami, Asst-Prof, EEE Dept. Mr.P.Sai Niranjan Kumar, Asst-Prof, EEE Dept.

5.5.D.Vc. FDPs and WORK SHOPS ATTENDED BY THE FACULTY DURING THE ASSESSMENT YEARS:



5.5.D.VI. FACULTY AWARDS.

Table: 5.5.D.VI: List of the faculty who got awards during the assessment years.

Academic year	Faculty	Award	Recognition
2023-24	Dr. K.Ramesh Reddy	Member- Organizing committee for IEEE R10PES India chapters	Annual global workshop on smart Technologies in Power & Energy Systems held on 24 th and 25 th November 2023

2021-22	G.Ujwala E.Gouthami P.Siva Prasad	Best Research scholar Award	Novel Research Academy, Puducherry, India
2020-21	Dr. K.Ramesh Reddy	Education Leadership Award	Dewang Mehta National Education Awards, Mumbai
2019-20	P.Siva Prasad	Discipline Star	SWAYAM-NPTEL, Madras

5.6 Innovations by the Faculty in Teaching and Learning (10)

5.6.A: Statement of clear goals, use of appropriate methods, significance of results, effective presentation(4)

5.6.A. Goals and Objectives of the Innovative teaching in the Department of EEE:



Fig 5.6.A. Goal and Objective of the Innovative teaching in the Department of EEE

- Holistic development refers to the overall growth of an individual in multiple dimensions – cognitive, emotional, physical, and social.
- It acknowledges that a person has to be equally significant in other fields along with the academic achievements, extra and co-curricular activities with an ability to balance the emotional quotient.
- A well planned education system should extend beyond textbooks and exams, encompassing the nurturing of emotional intelligence, self-awareness, and cognitive development.
- This unit describes the performance outcomes, skills and knowledge required to foster and enhance the holistic learning, development and well being of students right from the moment they come to second year of engineering.
- This unit applies to educators who develop and implement curriculum in the context of an approved learning framework which enables the students in achieving their goals
- It includes the ability to use detailed knowledge of different courses both theory and labs and other development activities like extracurricular and co-curricular activities to support holistic development.
- While a well framed curriculum takes care of the academic requirements, remaining are catered through various clubs of the institution.
- The challenge in teaching is to coach weaker students to excel and at the same time pay attention to quick learning students by providing them a wide range of exposure in their interested field of education or research.
- Besides, presenting basic mathematical concepts or abstractions, identification of the potential applications of these concepts in the solution of real-world problems is taught.
- This helps in making the students more interesting towards the subjects.
- One of our goals as educators is to get students to think critically, and be able to face challenges through the courses that are taught to them.
- Furthermore, teachers are not only favourable and accessible they are also interactive in their teaching style which invites student participation.
- Guided class discussions that encourage the students to think of possible solutions to a given problem is an excellent tool for us.
- Students are encouraged to share their views about the academic progress, teaching methods of the faculty, and how the course is structured by providing them the opportunity to evaluate these aspects formally.
- It is always a positive experience to address their concerns and changes are made where ever necessary through a proper channel.
- Significant effort is made by the faculty in creating an enjoyable classroom environment. Innovations by the Faculty in teaching and learning shall be summarized as per the following description.
- Contributions to teaching and learning are the main activities that contribute to the improvement of student knowledge base and their learning.
- Class rooms play a major role in effective, efficient and engaging instruction.
- These activities may include innovations not limited to, use of ICT tools, instruction delivery, methods of instruction, modes of assessment and evaluation.
- The ICT tools that are implementable as per the respective courses are pre-planned.

5.6.A.ICT tools: Facilities available and innovations in teaching adopted by faculty in the Department of EEE.

Table: 5.6.A.1: Details of the ICT tools adopted during the assessment years.

Year	No. Of teachers Using ICT	No of Teachers on Roll	List of ICT tools and Resources Available	No. of ICT enabled Class Rooms

2023-24 (CAY)	28	28	PPT,White Board, XP-Pen, Teams, NPTEL, Youtube	100%
2022-23 (CAYm1)	30	30	PPT,White Board, XP-Pen, Teams, NPTEL, Youtube	100%
2021-22 (CAYm2)	29	29	PPT,White Board, XP-Pen, Teams, NPTEL, Youtube	100%
2020-21 (CAYm3)	31	31	PPT,White Board, XP-Pen, Teams, NPTEL, Youtube	100%

5.6.A.3. ICT tools used during 2021-22

Name of the Faculty	UG/PG Class	Semester	Subject Name (Subject Code)	Lab Name(Lab Code)
Dr.N.Malla Reddy	Btech, IV,I	I	Electric Drives (P117DV)	
Prof.G.Gopinath	IV Btech, I	I	UEE(PE117ES), EMF(PC113AV)	
Dr.S.S.Tulasi Ram	III Btech M.Tech III, II	I,I	PS-II,(PC115CJ), RM &IPR (515411)	
Dr.G.Annapurna	III BTech, I	I	CS(PC115BV)	CS-LAB (PC11535)
Mr.G.Ramana Reddy	II Btech,I	I	CT(ES113AM)	CT-LAB(ES11315)
Dr.P.Rama Krishna Reddy	III Btech, I	I	PS-II (PC115CJ)	
Dr.R.NageswaraRao	IV Btech, IV I		PSA(PC117EL)	PS-LAB(PC11760)
Mr.T.SuryaPrakash	B.Tech, II, I		CT(ES113AM)	CT-LAB(ES11315)
Mr.B.RavichandraRao	IV Btech, I		PLCA(PE117EN)	
Mrs.B.NarmadaReddi	Btech , Mtech I, I		BEE(ES112AD), AED(515401)	BEE LAB(ES11209)
Mrs.E.Goutami	Btech, II, I		EM-I(PC113AV)	EM-I LAB(PC11321)
Mrs.K.Swarna Latha	Btech, I, I		BEE(ES112AD)	BEE LAB(ES11209)
Mr.K.Krushna Murthy	IV Btech, I		PSA(PC117EL)	PS-LAB(PC11760)
Mrs.K.Priyamvada	IV Btech, I		EDS (PE117DW) , WMPG (OE117KV)	
Mr.P.Siva Prasad	Btech, Mtech,III , I		EMI(PE115CA), MAEM(515402)	EMI-LAB(PC11540)
Mr.P.Buchi Babu	Btech, II, I		EM-1(PC113AU)	EM-1 LAB(PC11321)
Mr.P.Sai Niranjan Kumar	Btech, I		BEE(ES112AD)	BEE LAB(ES11209)
Mr.P.Suresh	Btech,IV, I		PSP(PC117EM)	
Mr.K.Pandu Kumar	Mtech , I , II		HVDC(515407), EFW(515439)	

Ms.Y.Priyanka	Btech,III		EMI(PE115CA)	EMI-LAB(PC11540)
Mrs.P.Tejaswi	Btech IV I		PSP(PC117EM)	PS-LAB (PC11760)
Mr.Ch.Leela Krishna	Btech I		BEE(ES112AD)	BEE-LAB(ES1103)
Ms.G.Sujatha	IV Btech, II Mtech, I		UEE(PE117ES), Facts & CPD(515432)	
Ms.P.Mamta	Btech, III, I		CS(PC115BV)	CS-LAB(PC11535)
Mrs.K.V.Sowmya	Btech, I,I		BEE(ES112AD)	
Mr.V.BadriRamakrishnan	Btech, IV, I		SEG(PE117EP)	
Mrs.K.V.DhanaLakshmi	Btech, I, I		BEE(ES112AD)	
Mrs.P.V.S.S.A.Parimala	Btech, II, I		EMF(PC113AV)	
Dr. T. HimaBindu	Mtech, I, I		APEC(515403)	

5.6.D(1)ICT tools used during 2020-21

Faculty Name	Class/Year	Semester	Subject (Subjectcode)	List of ICT Tools used	List of E -resources Used (Links)
Dr.N.Malla Reddy	IV . M.Tech	I , II	PSD (EE701PC) , EV (515420)	Teams	
Prof.G.Gopinath	IV	II	PLC (EE741PE)	Teams	ONLine Materials
Dr.S.S.Tulasi Ram	M.Tech	I , I	RM&IPR (515411), HVDC Tr. (515407)	PPT, Teams	
Dr.G.Annapurna	III,III	I , II	CS(PC115BV), PE(PC116DH)	PPT, Teams	Youtube videos
Mr.G.Ramana Reddy	II,I	I , II	CT(ES113AM), BEE(ES112AD)	Teams	
Dr.P.Rama Krishna Reddy	II,III	II , I	PS-I(PC114BP), PS-II(PC115CJ)	Teams	Online Material, Text Books
Dr.R.NageswaraRao	II	II	PS-I(PC114BP)	PPT, Teams	
Mr.T.SuryaPrakash	IV	I	PQ (EE732PE)	PPT, Teams	
Mr.B.RavichandraRao	III	II	MPMC(PC116DF)	PPT, Teams	
Mrs.Narmada Byreddy	M.Tech , I	I, II	AED(515401), BEE(ES112AD)	Teams	
Mrs.G.Ujwala	M.Tech,I	I , I	APEC(515403) , BEE(ES112AD)	Teams	
Mrs.E.Goutami	II,III	I,II	EM-I(PC113AU), EHV(PE116CW)	PPT, Teams	NPTEL, Youtube
Mrs.K.Swarna Latha	IV , M.Tech	I , II	EHVAC DG (515422)	PPT, Teams	e-Journals,NPTEL
Mr.K.Krushna Murthy	I,III	II , I	BEE(ES112AD), PS-II(PC115CJ)	PPT, Teams	Swayam, e-Books, Youtube
Mrs.K.Priyamvada	IV,I	II , I	WSHES (EE853PE), BEE(ES112AD)	PPt,Teams	OnLine material.Youtube Videos
Mr.P.Siva Prasad	III, M.Tech	II, I	PE(PC116DH), MAEM (515402)	PPT, XP-Pen, Teams	Swayam, NPTEL, Youtube

Mr.P.Buchi Babu	IV	I	HVDC Transmission (EE722PE)	PPT, Teams	NPTEL, e-Books
Mr.P.Sai Niranjan Kumar	III, IV	II, I	EHV(PE116CW), PSD(EE701PC)	PPT, Teams	NPTEL
Mr.P.Suresh	II	II	EM-II(PC114BL)	PPT, Teams	Swayam, Youtube
Mr.K.Pandu Kumar	I	II	BEE(ES112AD)	Teams	
Ms.Y.Priyanka	M.Tech	II	PQ (515416)	PPT, Teams	
Mrs.P.Tejaswi	II	I	CT(ES113AM)	PPT, Teams	NPTEL, Youtube
Mr.Ch.Leela Krishna	IV, I	I, II	PSOC(EE702PC), BEE(ES112AD)	Teams	
Ms.G.Sujatha	III, IV	I, II	EMI(PE115CA), UEE (EE863PE)	PPT, WhiteBoard, Teams	NPTEL
Ms.P.Mamta	III	I	CS(PC115BV)	Teams	
Mrs.K.V.Sowmya	III, M.Tech II yr	I, I	EMI(PE115CA), PRES (515440)	PPT, Teams	NPTEL
Mr.V.BadriRamakrishna n	III, I	II, I	MPMC(PC116DF), BEE(ES112AD)		
Mrs.K.V.DhanaLakshmi	II, IV	I, II	EMF(PC113AV), WSHES(EE853PE)	PPT, Teams	Youtube videos
Mrs.P.V.S.S.A.Parimala	M.Tech IIyr	I	FACTS & CPD (515432)	PPT, Teams	Youtube, NPTEL
Dr. T. HimaBindu	I	I	BEE(ES112AD)	PPT, Teams	NPTEL, e-Books
Dr.G,Annapurna	III	II	PE Lab(PC11651)	Computers	
Ms.P.Mamata	II	II	ES Lab(PC11431)	Computers	

Student Centric Methods:

The basic classification of student centric methodologies which are

1. Experiential,
2. Participatory,
3. Problem-solving

Are implemented by most of the faculty in various courses which include both theory and labs. Some of the techniques adopted are listed in the table below.

Table 5.6.A.4: List of students centric methods adopted during the assessment years

S.No.	Course name	Name of the Faculty	Class	Type of the method.
1.	BEE	Mrs. B.Abhinetri	First Year- Sem-I	Quiz
2.	BEE	Mrs.S.Bhulakshmi	First year Sem-I	Group presentations
3.	PQ&FACTS	Mrs. Narmada Byreddy	Fourth year Sem- II	Quiz
4.	Power systems-II	Dr.P.Rama Krishna Reddy	Second year Sem-II	Field visit

5.	SEG	Mrs.G.Sujatha	Fourth year Sem-I	PPT
6.	Power System Protection	Mrs. V.Suma Deepthi	Fourth year Sem-I	Seminar
7.	Waste Management and power generation techniques	Prof.G.Gopinath	Fourth year Sem-I(Open Elective)	Group Discussion
8.	UEE	Mr.P.Sai Niranjan Kumar	Fourth Year Sem-I	Video lectures

5.6.B. Availability of the content in the website(2):

To support the goals set, instructional material is prepared by the faculty for the courses of both theory and practical. E-content of few courses and all the laboratory courses in available in the college website. Sample of few are shown in table 5.6.B.

Table 5.6.B. List of courses available in college website.

S.No.	Name of the Subject	Name of the faculty	Category of the e-content
1	Power Systems operation and control. Neural networks and Fuzzy logic	Dr.R.Nageshwara Rao, Professor.	Lecture notes
2	Under ground cables	Dr. P.Rama Krishna Reddy, Professor.	Lecture notes
3	Power Quality & FACTS	Mrs. .Narmada Byreddy, Assistant Professor	Lecture notes
4	Switch Gear & Protection	Mrs.G. Sujatha, Assistant Professor	Lecture notes
5.	MPMC	Mrs.P.Mamta, Assistant Professor	Lecture notes
6.	E&HV	Mrs.E.Goutami, Assistant Professor	Lecture notes
7.	BEE LAB	Mr. P. Buchibabu, Assistant Professor	Lab Manuals
8.	ECA LAB	Mrs. Narmada Byreddy, Assistant Professor	Lab Manuals
9.	Python programming lab	Mr. Ch. Leela Krishna, Assistant Professor	Lab Manuals
10.	Machines Lab	Mrs. K. Priyanvada, Assistant Professor	Lab Manuals
11.	PE LAB	Mr.G.Ramana Reddy, Assistant Professor	Lab Manuals
12.	Control Systems Lab	Mrs. K.Swarna Latha, Assistant Professor	Lab Manuals
13.	MPMC Lab	Mrs. E.Goutami Reddy, Assistant Professor	Lab Manuals
14.	Instrumentation and Measurements Lab	Dr.G.Satheesh, Assistant Professor	Lab Manuals
15.	Power Systems	Dr. P.Rama Krishna Reddy, Professor	Lab Manuals
16.	Power Semiconductor Drives	Mr.Sravan Kumar, Assistant Professor	Video Lecture
17.	Electromagnetic Fields	Dr.K.V.Dhana Lakshmi, Assistant Professor	Video Lecture

In addition to these department has a YOUTUBE channel which has the lecture series for various subjects and laboratory demonstrations are created by the faculty of EEE.

5.6.C. Availability for Peer review and critique(2):

- The website is a source of open access to the outside world. We have kept a visitor count to know the number of visitors to the EEE portal.
- The courses under video lecture are available for reviews and the comments.
- The paper publications of the faculty have been cited by various researchers which is consideration for the peer review.

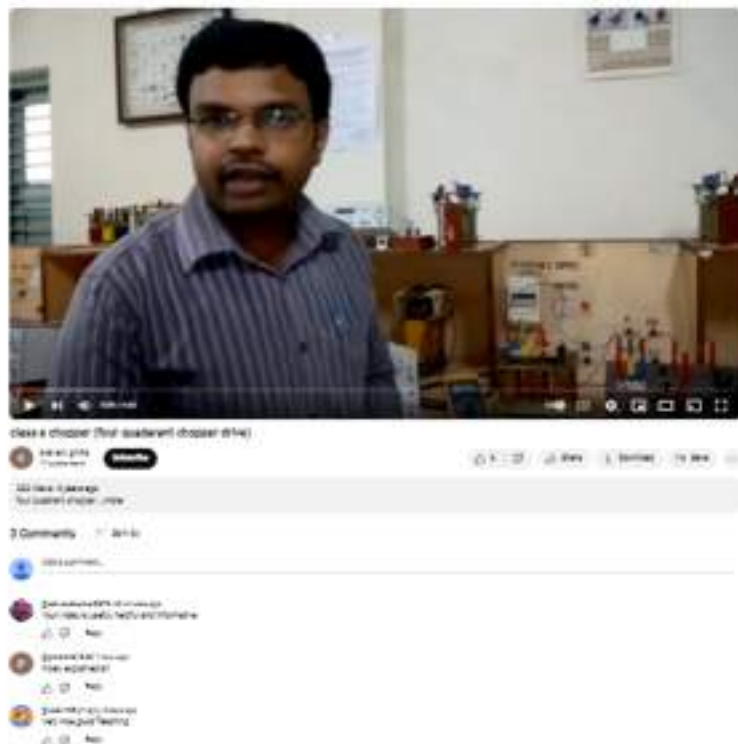


Fig. 5.6.C. Content of e-learning with views and comments.

5.6.D. Reproducibility and Reusability by other scholars for further development(2):

- Paper publications made by the faculty are being cited by few researchers which are listed in the table 5.6.D.1.

Table. 5.6.D.1: List of the citations of the faculty during the assessment period.

S.No.	Name of the Faculty	h-index	2019	2020	2021
1	Dr.K.Ramesh Reddy	6	23	18	10
2	Dr.N.Malla Reddy	1	0	2	1
3	Dr.P.RamaKrishna Reddy	3	2	4	4
4	Dr. R.Nageswar Rao	1	1	1	2
5	Dr.G.Annapurna	1			1
6	Dr.T.Surya Prakash	2	0	2	4

7	E.Gouthami	2	4	22	36
8	G.Ujjwala	2	1	3	3
9	P.Mamta	1	0	0	1
10	G.Sujatha	1		4	
11	Dr.T.Himabindu	3	3	6	3
12	Dr.KV DhanaLakshmi	2	0	1	4
13	PVSSA Parimala	2			
14	V.Suma Deepthi	2	1	2	1
15	S.Chaitanya	2	8	5	9
16	P. Suresh	2	4	1	
17	K.Krushna Murthy	2	6	2	1
18	P.Sai Niranjan Kumar	1			
19	V.Badri RamaKrishnan	2	1	0	2
20	P.Buchibabu	1	2	1	1

Table:5.6.D.2.List of screenshots of Google scholar of few faculty members.



nomula maitareddy
 professor of electrical
 Electrical Engineering
 power system operation an...

Publications

Year	Cited by	View
2012	1011	View
2009	200	View
2008	100	View
2006	100	View

DETAILED LITERATURE SURVEY ON DIFFERENT METHODOLOGIES OF UNIT COMMITMENT
Journal of Electrical Engineering Technology

Clustered Binary AC-DC Algorithms for Large Scale and Constrained Solution
International Journal of Electrical Engineering

Mathematical analysis and simulation of permanent magnet synchronous motor for electric vehicle application
International Journal of Electrical Engineering Technology

PI and PD-Apply controllers for DC-DC Motor in electric vehicles
International Journal of Electrical Engineering Technology



Dr P. Ramakrishna Reddy
 Professor, OJETS
 Electrical Engineering
 high voltage engineering gas insulated substations ...

Publications

Year	Cited by	View
2014	24	View
2012	0	View
2012	0	View
2012	0	View
2012	0	View

PI and PD based tuning of PI controller for a Load Frequency control in a power system
International Journal of Electrical Engineering Technology

Simulation of Migration Methods for VFTCs and VFCs in Gas Insulated Substations
International Journal of Electrical Engineering Technology

Noncrystalline Si Based VFTC and VFC in Gas Insulated Substations
International Journal of Electrical Engineering Technology

Simulation of Migration Methods by VFTCs and VFCs in Gas Insulated Substations
International Journal of Electrical Engineering Technology

Analysis and Migration Methods for VFTCs and VFCs in a GIS
International Journal of Electrical Engineering Technology

5.7 Faculty as participants in Faculty development/training activities/STTPs (15)

Name of the faculty	Max 5 Per Faculty		
	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(CAYm3)
Dr.P.Ramakrishna Reddy	3.00	0.00	3.00
Dr.N.Malla Reddy	3.00	0.00	3.00
Mr.G.Gopinath	3.00	5.00	5.00
Dr.R.Nageswara Rao	5.00	5.00	3.00
Dr.G.Annapurna	5.00	5.00	5.00
Ms.Byreddy Narmada	5.00	0.00	5.00
Ms.G.Ujwala	5.00	5.00	5.00
Ms.E.Gouthami	5.00	5.00	5.00
Ms.K.Swarna Latha	3.00	0.00	5.00
Ms.K.Priyamvada	3.00	5.00	0.00
Mr.P.Buchibabu	3.00	5.00	5.00
Mr.P.Sai Niranjan Kumar	3.00	0.00	5.00
Mr.Ch.Leela Krishna	5.00	5.00	5.00
Ms.Y.Priyanka	3.00	5.00	5.00
Ms.G.Sujatha	3.00	5.00	5.00
Ms.P.Mamta	3.00	0.00	3.00
Ms.K.V.Soumya	5.00	3.00	5.00
Mr.V.Badri Ramakrishnan	3.00	5.00	5.00
Dr.K.V.Dhana Lakshmi	3.00	5.00	5.00
Ms.PVSSA.Parimala	3.00	5.00	3.00
Dr.T.Himabindu	5.00	5.00	3.00
Ms.V.Suma Deepthi	5.00	5.00	0.00
Ms.S.Bhulakshmi	5.00	5.00	0.00

Ms.B.Abhinetri	5.00	0.00	0.00
Dr.G.Satheesh	0.00	0.00	0.00
Dr.S.S.Tulasi Ram	0.00	5.00	0.00
Mr.P.Suresh	0.00	0.00	5.00
Mr.P.Siva Prasad	0.00	0.00	5.00
Mr.K.Krushna Murthy	0.00	0.00	5.00
Ms.P.Tejaswi	0.00	5.00	5.00
Mr.K.Pandu Kumar	0.00	0.00	0.00
Dr.T.Surya Prakash	0.00	0.00	0.00
Dr.B.Ravichandra Rao	0.00	0.00	3.00
Mr.Somu Chaitanya	0.00	0.00	0.00
Sum	94.00	93.00	111.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios as per 5.1	23.00	22.00	22.00
Assessment [$3 \times (\text{Sum} / 0.5\text{RF})$]	24.52	25.36	30.27

Average assessment over 3 years: 15

5.8 Research and Development (75)

5.8.1 Academic Research (20)

5.8.1.A.Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)

The faculty in the department of EEE have an active participation in research and have also contributed extremely fine in publishing their research articles in peer-reviewed journals with impact factor. The table below indicates the consistent number of publications made by thrust areas/ area of expertise.

The graph below shows the years-wise publication in conferences and Journals by the department of EEE. The list of all articles mentioned with the indexing of the articles is furnished in the following table.

Table 5.8.1.A: Summary of the Publications in Journals and Conferences and Books and Book chapters.

S.No.	Year	No. of Publications in Journals, Conferences, Books, Book Chapters (Impact and SCI Journals)		
		Journals-UGC	Conferences/Books/Book chapters	Journals: SCOPUS & SCI
1	CAY: 2023-24	10	1	4
2	CAYm1:2022-23	26	6	7
3	CAYm2:2021-22	8	3	4
4	CAYm3:2020-21	14	0	3

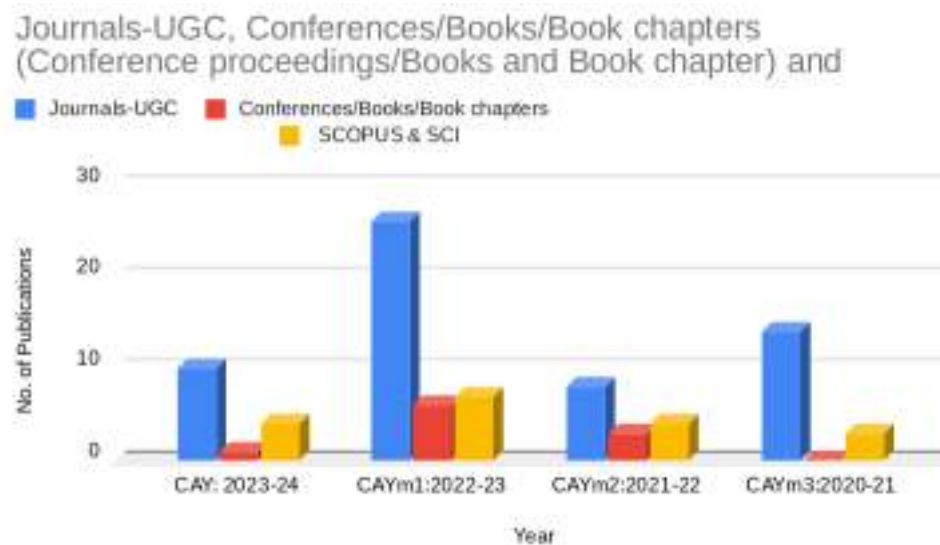


Fig.5.8.1.A.Summary of the Publications in Journals and Conferences and Books and Book chapters.

Table5.8.1.A.a:Relevant supporting Data for above table 5.8.1.A.

Table5.8.1.A.a(1)Paper Publications as per area of Specialisation for the Current Academic year 2023-24

S.No.	Domain Area	Name of the Faculty	
1	Electrical Power Systems	Dr.K.Ramesh Reddy	
		Dr.N.Malla Reddy	Electric vehicle dc motor p
		P. BuchiBabu	Green Energy Management in Di
		Dr.T.Hima Bindu	Grid-connected sol
		V Badri Ramakrishnan	A 1kw solar based :
		E Goutami Reddy	Modelling
		Dr.T.Hima Bindu	SCIG Ba
		VSuma Deepthi	A Novel Strategy f
		Dr.K.Ramesh Reddy	An Intelligent Mechanism for Enhanci
2	PE&ED	YPriyanka	A novel controller for enhan
		K.V. DhanaLakshmi	Modelling a
3	Control Systems	G Sujatha	Modelling and energy storage
		V Badri Ramakrishnan	ML based Predict
		K.V. DhanaLakshmi	1. Fault Analysis of M 2.IoT-Based Protection

Table5.8.1.A.a(2)Paper Publications as per area of Specialisation. 2022-23:

S.No.	Area of Specialisation	Faculty	
1	PE&ED	KSL	Simulatio
		GS	Design and de

2	Electrical Power Systems	PVSSA Parimala	A compreh
		PVSSA Parimala	
		VSuma Deepthi	Optimal Placem
		P.Tejaswi	
3	Control Sytems	K . V. DhanLakshmi	Machii

Table5.8.1.A.a(3) Paper Publications as per area of Specialisation. 2021-22

S.No.	Area of Specialisation	Faculty	
1	Electrical Power systems	Dr. N. Malla Reddy	Reduced Switch Mu
		Mrs.G.Ujwala	
		Mrs. P.Tejaswi	Modeling and Simu
		PVSSA Parimala	D-S
2	PE&ED	P.Tejaswi	A Review c
		Mrs.E.Gouthami Reddy	
		Mrs.G.Sujatha	Modelling and Desi
3	Embedded	S .Bhulaxmi	Implementation of
		Dr. T.Surya Prakash	Mact
		Mrs. K.V. DhanaLakshmi	IoT Based Prof

Table 5.8.1.A.a(4) Paper Publications as per area of Specialisation. 2020-21

S.No.	Area of Specialisation	Faculty	
1	PE&ED	Dr.N. Malla Reddy	Mathematical Analysis
		Dr.T.Hima Bindu	"Direct power control"
2	Electrical Power systems	Dr. K. Ramesh Reddy	A new approach
		Dr.R. Nageshwara Rao	Design of a Harmonic Filter
		T.Surya Prakash	A Novel IUPQC for Multi-Fe
3	Control Systems	Dr. K. Ramesh Reddy	Performance
		K.V. DhanaLakshmi	Significance

5.8.1. A. b.(1) Journals for the Current A.Y.2023-24

S. No	Title	Author	ISSN NO/ DOI/ ISBN	Scopus/Web of Science/IEEE/Springer	Title of the journal
1	A 1kw solar based stand alone DC grid for led lightning system, gadget charging for building space	V. Badri Rama Krishnan	1005-0299	Scopus	Material science and Technology
2	Fault analysis of microgrid with grid-connected and islanded mode using IOT-wavelet approach	K.V.Dhanalakshmi	1112-5209	Web of science (ESCI)	Journal of Electrical Systems
3	Electric vehicle dc motor powered by hybrid energy storage system using ultra capacitor and lithium-ion battery	Dr.N.Malla Reddy	1005-0299	Scopus	Material science and Technology
4	Modelling and energy storage management systems using fuzzy logic controller with PMSM drive hybrid electric vehicle	G.Sujatha	1005-0299	Scopus	Material science and Technology
5	A novel controller for enhancing the dynamic performance of a single phase cascaded h-bridge multilevel inverter	Y.Priyanka	1005-0299	Scopus	Material science and Technology
6	A novel strategy for ideal distribution static synchronous compensator placement and sizing	Mrs. V.Sumadeepthi	2366-1313	Web of Science	ZKG International
7	Green energy management in dc microgrids enhanced with robust model predictive control and muddled tuna swarm MPPT	Mr. P. Buchibabu	NA	Springer	Electrical Engineering

5.8.1. A. b.(2) Journals for the Current A.Y.2022-23 (CAY-1)

S. No	Title	Author	ISSN NO/DOI	Scopus	Title of the journal
1	A comprehensive review on the advances in renewable wind power technology	Mrs.P.V.S.S.A. Parimala	0309-524X	ESCI(WoS)	Wind Engineering
2	Simulation and Analysis of Grid Connected system using Multilevel Inverter	K.Swamalatha	1869-9391	Scopus	GIS science Journal

5.8.1. A. b.(3)Journals for the A.Y 2021-22(CAY-2)

S.No	Title of the publication	Author	ISSN No / DOI	Scopus
1	Machine Learning-Based Predictive Techno-Economic Analysis of Power System	Dr.T.Surya Prakash	10.1109/ACCESS.2021.3110774	IEEE
2	Implementation of the modular multilevel converter and cascaded H- bridge multilevel inverter using SPWM	Saggurthi bhulakshmi	1309-6591	Scopus
3	Modelling and Design of an Electric Vehicle Fed with Dual Drive Motors using Hybrid Energy Storage System	G Sujatha	2278-3075	Scopus
4	Reduced Switch Multilevel Inverter Topologies And Modulation Techniques For Renewable Energy Applications	G.Ujwala, Dr.N.Malla Reddy	ISSN No: 13094653	Scopus
5	Design Requirements of Solar Powered Plug In Hybrid Electric Vehicles	Gouthami eragamreddy	ISSN No: 13094653	Scopus
6	D-STATCOM control using SRFT method for PQ improvement in a PV system	P.V.S.S.A. Parimala	2278-3075	Scopus

5.8.1. A. b.(4)Journals for the A.Y 2020-21(CAY-3)

S.No (http://s.no/)	Title of the publication	Author	ISSN No	Scopus/Non scopus
1	"Direct power control for a multilevel inverter fed induction motor drive using predictive torque control"	Dr.Himabindu.T	01.GIJET.6.2.506	Elsevier
2	Mathematical Analysis and Simulation of Permanent Magnet Synchronous Motor for Electric Vehicle Application	Dr. N. Malla Reddy	2278-3075	Scopus
3	Significance of Wavelet and IoT techniques in micro-grid based power system protection.	K.V.Dhanalakshmi	978-1-7281-8880-5	Scopus
4	Anew active power injection scheme using CHB –MLI DSTATCOM for PQ improvement	Dr.K.Ramesh Reddy	2347-3983	Scopus
5	Performance analysis of PI and fuzzy logic controlled DStatcom for PQ improvement	Dr.K.Ramesh Reddy	5135-5142	Scopus
6	Design of a Harmonic Filter for a Grid Connected Doubly Fed Induction Generator under Unsymmetrical Fault Conditions	Dr.R. Nageswara Rao	ISSN 2278-3075 Vol-9 Issue:5	Scopus
7	A Novel IUPQC for Multi-Feeder systems using Multilevel converters with Grid integration of Hybrid renewable energy systems	T.Surya Prakash	DOI: 10.1109/ACCESS.2020.2977754	International
8	An Integrated Boost Parallel Flyback Converter for Multi Load Applications	Mr.S.L.V.Sravan Kumar	ISSN:2278-3075,VOL 8 , Issue 4, Mar' 2019	Scopus

9	Cost allocation of transmission line using fact devices	Dr.S.S.Tulasi Ram	ISSI NO:2278-3075 Vol.8, Issue 6, April 19	Scopus
10	A New topology of interline unified power quality conditioner for multi feeder systems	T.Surya Prakash	ISSN NO: 2662-3447 Vol.4, April 19	Scopus
11	STATCOM Based Multilevel Inverter Modelling and Simulation	Y.Priyanka	ISSN:2277-3878, Volume-8, Issue 2 July 2019 .	Scopus
12	Improved Automatic Generation Control of Interconnected Power System	K.Krushna Murthy	ISSN:2277-3878, Volume-8, Issue2S8, August 2019	Scopus
13	Comprehensive Examination on solar – Wind Energy Systems Grid Integration and Emerging Power Quality Challenges	P.Suresh	ISSN:2249-8958, Volume-8, Issue6S3, September 2019)	Scopus
14	Multilevel UPQC Fed Grid connected Hybrid system for sag and swell mitigation	P.Tejaswi	ISSN NO: 2277-3878	Scopus
15	Different ANN models for short term electricity price forecasting	Dr.S.S.Tulasi Ram	ISSI NO:2277-3878	Scopus
16	A New technique for transmission loss allocation in a deregulated electricity market	Dr.S.S.Tulasi Ram	ISSI NO:2277-3878	Scopus
17	Integrated Buck Boost Series Parallel Fly-Back Converter for Electronic Ballast and LED Drive Applications	Mr.K.Pandu Kumar, S.L.V. Sravan Kumar	ISSN NO:2277-3878	Scopus
18	Sag and swell mitigation and power quality improvement in grid connected hybrid system using UPQC	P.Tejaswi, G.Sujatha	10.1088/1742- 6596/1362/1/012075	Scopus

5.8.1. A. c.Conferences and Book chapters:

5.8.1. A. c(1) Conferences and Book chapters for the A.Y 2023-24(CAY)

S. No.	Name of the Faculty	Title of the book published	ISBN number
1	Dr.N.Malla Reddy	lot based tampered energy meter monitoring	978-620-6-68661-3
2	Prof.G.Gopinath	Smart robot grass cutter with lawn coverage based on solar power	978-620-6-73952-4
3	Mr.G.Ramana Reddy	Smart digital water management system	978-620-6-68657-6
4	Dr.R.NageswaraRao	Thyristor power control	978-620-6-68651-4
5	Mrs.G.Ujwala	IOT based energy meter with billing system and load prioritization	978-620-6-68559-3
6	Mrs.E.Goutami	Estimation of energy requirement based on vehicle performance analysis using different drive cycles	978-620-6-68560-9
7	Mrs.K.Swarna Latha	Grid connected system using multi-level inverter	978-620-6-68517-3
8	Mrs.K.Priyamvada	MPPT based battery charging	978-620-6-68604-0
9	Mr.P.Buchi Babu	A comparative study of P&O and incremental conductance algorithm	978-620-6-68588-3
10	Mr.P.Sai Niranjan Kumar	Study of automatic solar street light	978-620-6-73950-0
11	Mr.K.Pandu Kumar	Automated air cooled three level inverter system	978-620-6-73951-7

12	Ms.Y.Priyanka	A novel three phase multilevel inverter with single dc link for induction motor drive application	978-620-6-73844-2
13	Ms.G.Sujatha	Smart traffic signalling system	978-620-6-73805-3
14	Ms.P.Mamta	Design and performance analysis of an electric vehicle	978-620-6-73850-3
15	Mrs.K.V.Sowmya	Smart iot based energy meter with load management algorithm	978-620-6-68601-9
17	V Badri Rama Krishnan	Smart solar charge controller using synchronous buck converter	978-620-6-68524-1
18	Mrs.K.V.DhanaLakshmi	A novel fault tolerant twenty-one level inverter with induction drive	978-620-6-18457-7
19	Mrs.P.V.S.S.A.Parimala	Solar pv generation system interfaced to 3-phase grid with compensation	978-620-6-68570-8
20	Dr T. Hima Bindu	Hybrid power generation using wind and solar energy monitoring	978-620-6-68636-1
21	Mrs.V Suma deepthi	Cuk converter-based BLDC motor for water pumping system	978-620-6-68536-4
22	Dr. G Sateesh	Solar powered automatic rain protection for field crops using Arduino	978-620-6-75189-2
23	Mrs.B.Abhinethri	Broadband over power line	978-620-6-73787-2
24	Mrs.S.Bhulakshmi	Seven level inverter	978-620-6-73744-5
25	Mr.Somu Chaitanya	Multilevel inverters	978-620-6-73802-2
26	Mrs.K.V.DhanaLakshmi	PQ improvement of electrified transportation by fuzzy logic control	978-620-6-18458-4
27	Mrs.V.SumaDeepthi	Capacitor added DVR for SMES emulator/battery for better enactment	978-620-6-18497-3
28	Mrs.V.SumaDeepthi	Dual axis solar tracker with weather monitoring system	978-620-6-73742-1
29	Dr N Malla Reddy	Density based traffic control system	978-93-91462-76-5
30	Mr.G.Ramana Reddy	Digitalized smart water management system	978-93-91462-77-2
31	Dr. R Nageswara rao	A novel bidirectional t-type multilevel inverter for electric vehicle applications	978-93-91462-78-9
32	Mrs.K.Priyamvada	Cogeneration of grid-connected wind-photovoltaic system using back-to-back voltage source converters	978-93-91462-79-6
33	Mr.V Badri Rama Krishnan	MPPT using p and o algorithm	978-93-91462-80-2
34	Dr.P.Rama Krishna Reddy	Design of single phase transformer of various sizes using matlab	978-93-91462-81-9
35	Dr.G.Annapurna	Design and simulation of electrical power system of nano satellite	978-93-91462-82-6
36	Mrs.G.Ujwala	Mpvt based performance enhancement of integrated hybrid wind-solar energy system	978-81-19385-67-6
37	Mr.P.Buchi Babu	A single phase voltage controlled grid connected photovoltaic system with power quality conditioner functionality	978-81-19385-68-3
38	Mr.P.SaiNiranjana Kumar	Development of an integrated power converter for fast charging and efficiency enhancement in electric vehicles	978-81-19385-69-0
39	Mrs.Y.Priyanka	Solar energy management of microgrid using battery and super capacitor by DC-DC converter	978-81-19385-70-6
40	Mr.Ch.LeelaKrishna	Automatic power factor correction using arduino microcontroller	978-81-19385-71-3
41	Mrs.G.Sujatha	Different levels of diodeclamped multi-level inverter fed by non-isolated dc-dc converter	978-81-19385-72-0
42	Dr T. Himabindu	Low voltage ride through capability and improvement of power quality in hybrid wind-pv farms grid connected using dynamic voltage restorer	978-81-19385-73-7

43	Mrs.V Suma deepthi	IOT based battery management system using solar energy	978-81-19385-74-4
44	Dr. G Sateesh	Under distorted current and voltage conditions :analyzing the performance of pv-upqc	978-81-19385-75-1
45	Mr.P.SaiNiranjana Kumar	Study of automatic solar street light	978-81-19385-76-8
46	Dr. P Ramakrishna Reddy	Bidirectional control principle of athpf	978-81-19385-17-1
47	Mrs.P.Mamta	Monitoring and control of substation parameters using gsm module	978-81-19385-18-8
48	Mrs.P.V.S.S.A.Parimala	D-statcom control with srft method for pq improvement in a pv system	978-81-19385-19-5
49	Mrs.K.V.Sowmya	Modeling and performance enhancement of solar-wind hybrid energy system	978-81-19385-20-1

5.8.1. A. c(2)Conferences and Book chapters for the A.Y 2022-23(CAY-1):

S.No.	Name of the Faculty	Title of the chapters published	ISBN number
1	G. Eragamreddy	Modelling and Simulation of Solar Energy Storage System for Electric Vehicle	55651.2022.10094323 (https://doi.org/10.1109/INCOFT55651.2022.10094323)
2	G.Sujatha	Design and development of Brushless DC motor drive in Electrical Vehicle application	978-981-19-2184-1
3	P.Tejaswi	Protection in Smart Building: Mini Review	978-100-32-0106-9
4	Suma Deepthi Veeraganti	Optimal Placement And Sizing Of DG And D-Statcom In A Distribution System: A Review	55017.2022.9851016 (https://doi.org/10.1109/PECCON55017.2022.9851016)
5	P.Tejaswi	A Review on D-STATCOM Control Techniques for Power Quality Improvement in Distribution	978-1-6654-3523-9
6	P.Tejaswi	Modeling and Simulation of Grid-Connected Reconfigurable Solar Converter and Wind Hybrid Power System	978-1-6654-4607-5

5.8.1. A. c(3)Conferences and Book chapters for the A.Y 2021-22(CAY-2):

S.No.	Name of the Faculty	Title of the chapters published	ISBN number
1	K.V.Dhanalakshmi	IOT Based Protection of Microgrid With Grid-connected and Islanded mode Using Wavelet Approach	978-1-7281-9951
2	P Mamta	Identification of Insomnia Based on Discrete Wavelet Transform Using Time Domain and Nonlinear Features	978-981-33-6862
3	K.V.Dhanalakshmi	Significance of Wavelet and IoT techniques in micro-grid based power system protection.	978-1-7281-9951-1

5.8.1.A.d. Summary of the research publications of the faculty till date:

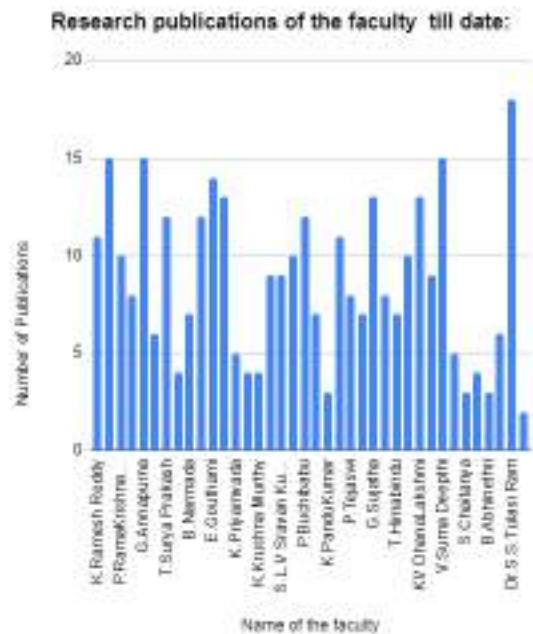


Figure 5.8.1.A.d. Summary of the research publications of the faculty till date.

5.8.1.B. PhD awarded during the assessment period while working in the institute(5):

Following faculty who are awarded with PhD degree are mentioned in the table 5.8.1B.

Table 5.8.1.B. Details of the faculty and the year of award of the PhD degree:

S.No.	Name of the Faculty	Year in which the degree is awarded
1	Dr. K.V.Dhana Lakshmi	2023
2	Dr.T.Hima Bindu	2021
3	Dr.B.Ravi Chanrda Rao	2021
4.	Dr.T.Surya Prakash	2021

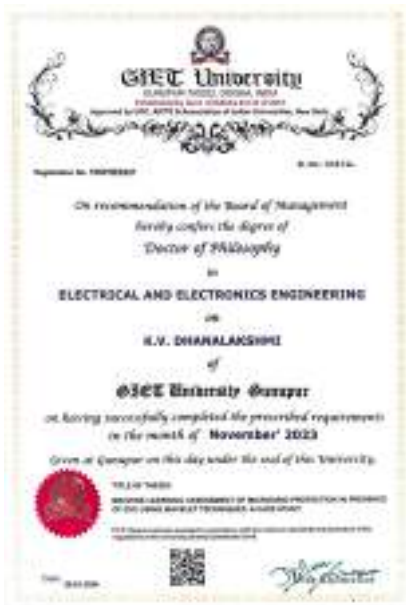


Fig 5.8.1.B.1 Ph.D Degree(Dr. K.V.Dhana Lakshmi)



Fig 5.8.1.B.2 Ph.D Degree (Dr. T.Himabindu)

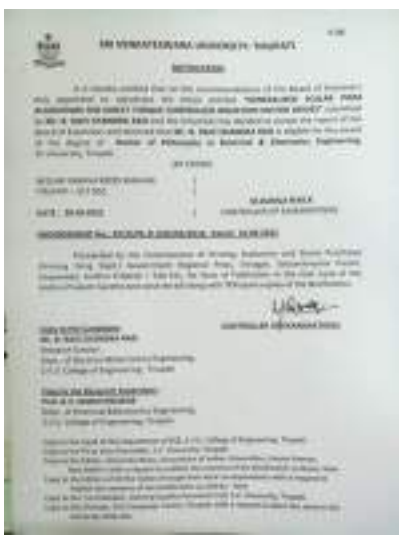


Fig 5.8.1.B.3 Ph.D Degree (Dr.B.Ravichandra Rao)



Fig 5.8.1.B.3 Ph.D Degree (PC) -(Dr.T.Surya Prakash)

5.8.2 Sponsored Research (20)

2022-23 (CAYm1)

Project Title	Duration	Funding Agency
Enhancing Grid Connected	2 Years	GNITS SEED Grant
Design and Development of	3 Months	GNITS SEED Grant

2021-22 (CAYm2)

Project Title	Duration	Funding Agency
Advanced Power Electronic	2 Weeks	NIT Warangal
0	0	0

2020-21 (CAYm3)






Project Title	Duration	Funding Agency
Grid Integration of Renewal	3 Years	GNITS SEED Grant






Cumulative Amount(X + Y + Z) = 1760000.00

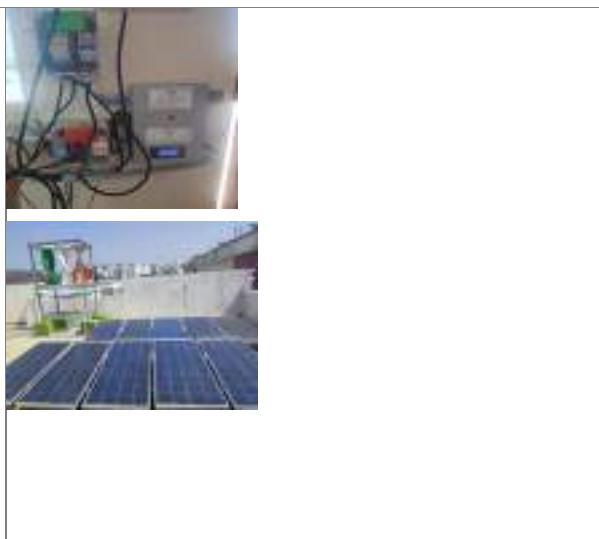
5.8.3 Development activities (15)

5.8.3A.: Products developed: List of products developed in the department are listed in the Table 5.8.3.A.

Table: 5.8.3.A. Products Developed.

S.No	Name of Product	Name of the Faculty	Image of the developed Product
1.	VR Based Electrical Machines Experiment Development	Dr. N Malla Reddy, Mrs. E Gouthami Ms.Amulya A(21251A0232)	
2.	Full / Half Bridge Inverter	Mr. G Ramana Reddy Mr.P Edward Kumar	
3.	DC-DC Converter	Mr.V.Badri Rama krishnan Ms. T Tejasri (21251A02C0) and Ms.M Chandrika (22255A0213)	
4.	Isolation transformer	Mr. P Sai Niranjan Kumar Mr. Srinivas S & Mr. N S Naidu	
5.	Resistive/Inductive loads	Mrs. G Ujwala Mr. K Srinivas & Mr. K V Ram mohan	

6.	Development of Electric Golf Kart	<p>Dr. P Ramakrishna Reddy Mr. P Buchibabu Mrs E Gouthami</p> <p>Ms. B Sai Anvitha (21251A0266) Ms. B Nandini (21251A0297)</p>	
7.	Integrated Buck Boost Series Parallel Fly-Back Converter for Electronic Ballast and LED Drive Applications	<p>Dr. P Ramakrishna Reddy Mr. P Buchibabu Mrs E Gouthami</p> <p>Ms. B Sai Anvitha (21251A0266) Ms. B Nandini (21251A0297)</p>	
8.	An Integrated Boost Parallel Flyback Converter for Multi Load Applications	<p>Mr.S.L.V.Sravan Kumar Ms. Medi Pallavi (17251D5407)</p>	
9.	A NOVEL SMART DEVICE FOR PROVIDING WOMEN SAFETY	<p>Mrs G Sujatha PUTTA MOUNIKA (20251A0267) M VIDYA (21255A0215) CHERUPALLY SAI SREEJA (20251A0249) BHUKYA GOUTHAMI (20251A0274) NALLABOTHULA SNEHITHA (20251A0264)</p>	
10.	METHOD AND SYSTEM FOR PROVIDING DYNAMIC SOLAR POWER BANK CHARGER	<p>Mrs. PVSSA Parimala Ms K BHAVANA (20251A0239) Ms M VAISHNAVI (20251A0218) Ms. C CHAITANYASRI (20251A0230) Ms. S L SAI HIMAMSA (20251A0222) G DIVYA (20251A0210)</p>	

<p>11.</p>	<p>Energy Management of Wind and PV System for stand alone systems</p>	<p>Dr. R Nageswara Rao Mr. P Buchibabu Mrs. E Gouthami Mr. V Badri Rama Krishnan Mr. CH Leela Krishna Mrs. P V S S A Parimala</p>	
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5.8.3.B.Research labs:

5.8.3.B(P)(R) Project laboratory & Research Laboratory:


The department has an exclusive project lab, where students predominantly utilize the facilities to execute their projects. This dedicated space provides students with essential resources and infrastructure conducive to innovative project development. Function Generators, RPS and Soldering Iron utilized by the students to carry out their major and minor hardware projects. The hardware projects expo is also conducted to provide a platform for students to display their innovative hardware creations. The developed products have been successfully patented. Project work commences for students during the sixth semester for R-18 regulation admitted students and fourth semester for R-22 regulation admitted students, with a primary focus on addressing real-time challenges and collaborate as a team alongside faculty supervisors to devise high-quality prototype solutions.







Project laboratory typically refers to a dedicated space or facility equipped with tools, equipment, and resources for designing, prototyping, and testing hardware-based projects. Project laboratories play a crucial role in hands-on learning, research, and development of electronics. Individuals can gain practical experience, apply theoretical knowledge, and troubleshoot real-world challenges associated with hardware development.

The components available in the project lab shown in table 5.8.3.B(P)

Components available in the project laboratory for project execution:

Table 5.8.3 B (P): Components in Projects lab.

Sl. No.	Component/Microcontroller Name	Image
1	Arduino Uno with sensor Kits for Training and Testing	






2	CRO with Probes	
3	ESP32 with CAM IOT controller	
4	ESP32 Generic Module and Node MCU	
5	18650 lithium Ion Battery and Super capacitor (15V each)	
6	Raspberry Pi Controller with Memory card	
7	Mosfets and IGBTs(set)	






8	ACS712 Current sensors 5A,20A,30A	
9	Robotic platform	
10	TI DSP F28069	
11	GSM and GPS modules	
12	Zigbee Modules	
13	Basic components, Accessories and Laboratory Equipments	
14	Desktop PC	Intel Core i5 processor, 256GB SSD



(R) Research Laboratory: The Research Laboratory has been established to bolster the research capabilities of power engineers within the department, facilitating undergraduate, postgraduate, and research scholars in advancing technology transfer across various domains in po of the lab is shown in table **5.8.3.B(1b)**

5.8.3.B(1b)

S.No	Name of Equipment	Specifications	Image
------	-------------------	----------------	-------

1	FPGA Spartan 6 LX25 With Matlab Interfacing	Digital and Analog Pins with Specified Matlab Toolbox for Simulink based Design	
2	TMS320F28335 (DSP) with Matlab Interface	PWMs, Analog and Digital pins with TI toolbox for Matlab simulink based Interfacing	
3	Solar panels	1KWp, 110V, 8A DC output for Experiments	
4	Desktop PC count 9	Intel Core i5 processor with 16GB ram and 1TB HDD	
5	Power Analyser (HIOKI)	Supports up to 400 Hz, Harmonic Measurement in the range of 2kHz to 80kHz, Measurement of transient voltages up to 6000V from 5kHz to 700kHz	

6	Intelligent power module	440V AC 3 leg converter	
7	5 Phase Inverter (IGBT Module)	0-230V 50Hz IGBT with 5 Legs	
8	3 Phase Multilevel Inverter Module	0-230V, 50Hz 1-Phase Input	
9	Smart Power Module	6 Mosfet with 3 Legs, 0-230 V 50Hz input	
10	Chopper /Inverter PWM Controller	6 PWM outputs for the Mosfets or IGBTs	

11	Three Phase Matrix converter	3-Phase, 400V, 50Hz Input with protection circuit for Multilevel outputs	
12	Spartan 6 FPGA Motor Control Board	TI make FPGA Board with interfacing capability of PWM pins with motor	

5.8.3.B.I Details Of CoEs and RCs:

Center of Excellences (CoEs) and Research Centers of EEE Department focus on specific expertise areas, serving as knowledge hubs, offering training, consultation, and fostering collaboration. Our Research Centers are dedicated to conducting focused research, securing f with industry. Centers of excellence also look after accessing their resources, participating in their programs, collaborating o ofn research projects, seeking expertise and advice, and leveraging networks to advance academic, professional, and societal goals. EEE Department table 6.4.6

5.8.3.B.ICenters of Excellence & Research Centres in EEE

Table 5.8.3.B.I List of CoEs and RCs.

S.No	Name of CoE	Center In-charge	Faculty Co-ordinators, EEE Dept
1	Center of Excellence for Electric Vehicles	Dr. P. Rama Krishna Reddy, Professor HOD-EEE	Mrs. E Gouthami Mr. V Badri Rama Krishnan Mr. P Sai Niranjan Kumar
2	Center of Excellence for Advanced Power Electronics Converters	Dr.N Malla Reddy Professor,EEE. Dean, Admissions	Mr. G Ramana Reddy Mrs. G Ujwala Mrs. Y Priyanka Mrs. PVSSA Parimala Mrs K.V.Sowmya
3	Center of Excellence for Renewable Energy Systems	Dr. G. Annapurna Professor,EEE. In-Charge HOD-EEE	Dr. T.Himabindu Mrs .G .Sujatha Mrs. Narmada By Reddy
4	Center of Excellence for Virtual Reality	Dr. R. Nageswara Rao Professor ,EEE Dept.	Mr. P. Bucchibabu Mrs. P. Mamta Dr. Sateesh G

5	Center for Power and Energy Systems	Mrs. E. Gouthami Asst. Professor, EEE Dept	Dr. K V Dhana Lakshmi Mrs. K Swarnalatha Mrs.V Suma Deepthi Mrs. B. Abhinetri
6	Center for IoT and Embedded Systems	Mr.V. Badri Rama Krishnan Asst Professor, EEE Dept	Mr.CH. Leela Krishna Mrs. K. Priyamvada Mr. Somu Chaitanya Mrs. S. Bhulakshmi

5.8.3.B(2) Center of Excellence for Electric Vehicles:

Outcomes of the CoE- EV:

- Development of breakthrough technologies and solutions that enhance the efficiency, performance, and sustainability of electric vehicles
- Graduates and professionals equipped with cutting-edge knowledge and skills through training programs offered by the CoE
- A culture of continuous improvement within the CoE, leading to ongoing advancements in research priorities, infrastructure, and collaboration strategies.
- Dissemination of research findings through publications, conferences, and workshops, contributing to the global knowledge base in electric vehicle technology.



Fig: 5.8.3.B(2a) Visit to Eride facility by our facult.



Fig: 5.8.3.B(2b) Students Participation in Ather 2W EV Teardown workshop

Table: 5.8.3.B(2a) LIST OF ACTIVITIES UNDER CoE-EV:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/ conferences	No. of Patents published/ granted
2020-2021	-	2	4	1
2021-2022	1	2	4	2
2022-2023	1	3	10	-
2023-2024	-	-	-	-

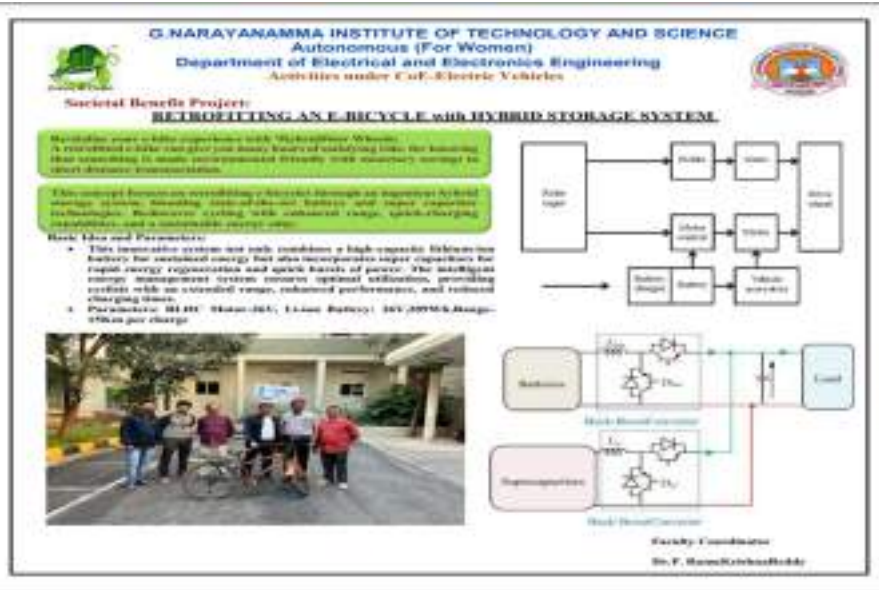


Fig.5.8.3.B(2c): Activities under CoE-EV.

Fig: 5.8.3.B(3)Centre of Excellence for Advanced Power Electronic Converters

Outcomes of CoE:

- Successful integration of power converters into renewable energy systems, contributing to enhanced reliability and efficiency.
- Demonstration of the practical application of power electronic converters in solar, wind, and other clean energy sources.
- Execution of collaborative research initiatives leading to real-world applications and solutions.



Fig: 5.8.3.B(3a): Project execution by the students

Table: 5.8.3.B(3a)LIST OF ACTIVITIES UNDER CoE-APEC:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of publications/conferences	paper	No. of Patents published/granted
2020-2021		5	5		2
2021-2022	1	4	2		-

2022-2023	4	9	-
2023-2024	4	1	



Fig: 5.8.3.B(3b): Glimpse of the projects done and equipment.

Centre of Excellence for Renewable Energy Systems

Outcomes of CoE:

- Successful transfer of research findings to the industry, leading to the commercialization of new and improved renewable energy solutions.
- Incubation and support for startups and entrepreneurs in the renewable energy sector.
- Advocacy for sustainable energy policies that address climate change and promote a transition to clean energy sources.
- Contribution to the development of international standards for renewable energy technologies.



Commissioning of Wind - Solar Hybrid System

LIST OF ACTIVITIES UNDER CoE-RES:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences	No. of Patents published/granted
2020-21	-	7	4	2
2021-22	1	5	4	-
2022-23	-	8	9	-
2023-24	-	7	6	3

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
 Autonomous (For Women)
 Department of Electrical and Electronics Engineering
 Activities under E-VE- Electric Vehicles

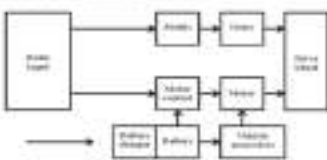

Sustained Research Project:
RETROFITTING AN E-BICYCLE with HYBRID STORAGE SYSTEM

Researchers across a wide spectrum with "Interdisciplinary" Teams, in the field of EVs, are working on many kinds of vehicles. One of them is the one converting it into an electric bicycle with battery storage for short distance transportation.

This research focuses on retrofitting an existing bicycle with an integrated hybrid storage system, including micro-controllers, battery and energy storage technology. Working on existing with advanced, fresh, with 200-watt, 24V battery, and a rechargeable motor unit.

Basic Idea and Parameters:

- This innovative vehicle will combine a high-capacity lithium-ion battery for extended range but also incorporate super capacitors for rapid energy regeneration and quick bursts of power. The intelligent energy management system ensures optimal utilization, providing a vehicle with an extended range, enhanced performance, and reduced charging times.
- Parameters: BLDC Motor: 200W, Lithium Battery: 24V, 200Wh, Range: 150km per charge.

Faculty Coordinator
 Dr. P. RamakrishnaRao

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
 Autonomous (For Women)
 Department of Electrical and Electronics Engineering
 Activities under Center of Excellence for Electric Vehicles

Hat is ERIDE Factory



Developed a 3-Wheeler EV in collaboration with test motors



Developed an Electric Vehicle with the help of 3-axis control system



Students working on integration of EV



Outcomes:

- Proposals were submitted to enrich the research activities under center of excellence
- MOU with ERide Electric vehicle company
- 13 student projects were assisted under the lab for implementation
- 21 Research Publications were associated with center of excellence since inception of lab
- Patents related to EV were awarded at different stages of research from the center of excellence

Faculty Coordinator
 Dr. P. RamakrishnaRao

Centre of Excellence for Virtual Reality

Outcomes:

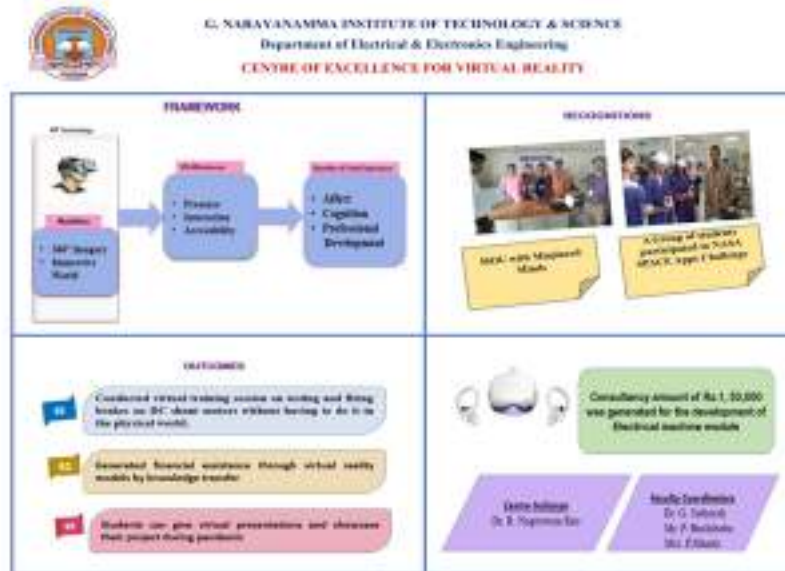
- Cross-disciplinary projects and collaborations resulting in new perspectives and applications for VR technology.
- Gradual integration of VR literacy into educational systems, promoting a more informed and adaptable society.
- Recognition as a hub for nurturing talent, innovation, and entrepreneurship within the broader VR ecosystem.



Students Performing experiments on a VR platform

LIST OF ACTIVITIES UNDER CoE-VR:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences
2020-21	-	1	-
2021-22	2	2	1
2022-23	-	3	1
2023-24	-	1	-



Centre for Power and Energy Systems

Outcomes of RC-PES:

- Implementation of advanced control systems that enhance the stability and reliability of power grids and enable the seamless integration of diverse energy sources
- Successful implementation of collaborative projects with industry partners, resulting in the application of research outcomes in real-world scenarios
- Spreading of research findings through publications, conferences, and public outreach programs, contributing to the global knowledge base in power and energy systems.



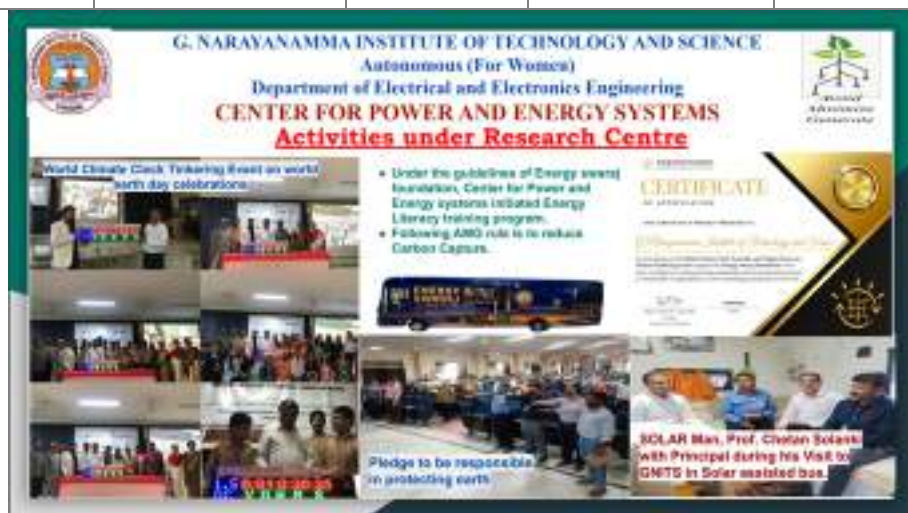
Visit of Solar Man of India to Campus



World Climate Clock Setting by the Faculty and Students

LIST OF ACTIVITIES UNDER RC-PES:.

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of publications/ conferences	No. of Patents published/ granted
2020-21	-	6	4	-
2021-22	1	6	1	-
2022-23	-	6	3	-
2023-24	-	3	2	2



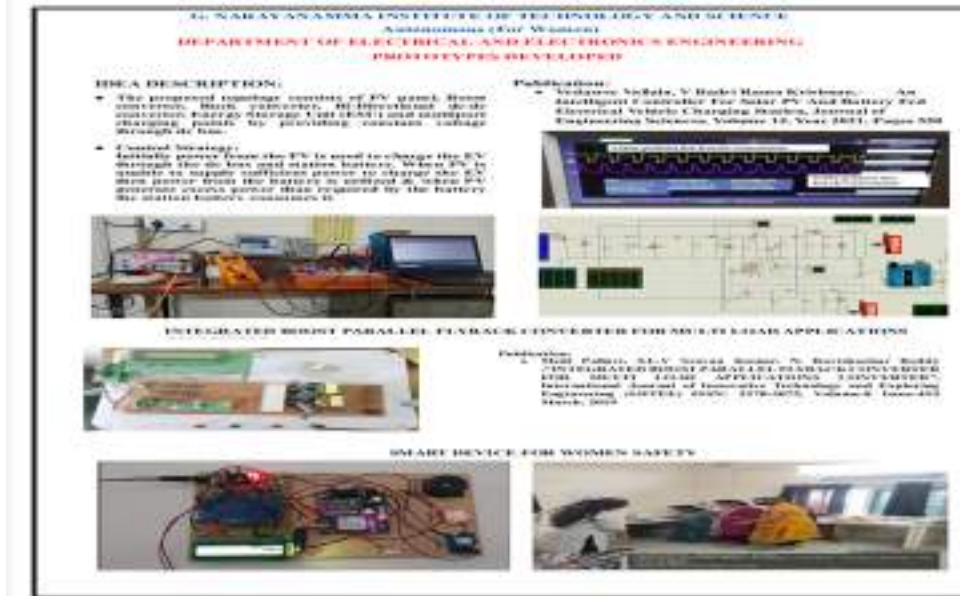
Center for IoT & Embedded Systems

Outcomes of RC-IOT :

- Development and implementation of innovative technologies and solutions that address key challenges in IoT and Embedded Systems, leading to advancements in the field
- Graduates and professionals equipped with the knowledge and skills required for successful careers in IoT and Embedded Systems, contributing to a skilled and adaptive workforce
- A thriving collaborative ecosystem with established partnerships and joint projects contributing to a collective pool of knowledge, resources, and expertise.

LIST OF ACTIVITIES UNDER RC-IOT:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences	No. of Patents published/granted
2020-21	-	5	-	3
2021-22	1	8	-	1
2022-23	-	3	12	-
2023-24	-	3	-	4



Activity photos in project labs:



Workshop on Tinkercad



Project Expo by students



Workshop on Power Electronics Hardware



Visit by Faculty to Retron Energies for Knowledge Training and Project Development Activities

Some projects developed with Sustainability, Societal Impacts , EV Transportation and Renewable Energy as theme in the Department project labs are shown in table no. 5.8.3 B

Projects developed Under Project Lab:

Table 5.8.3 B

S.No	Project Title	Team	Image
------	---------------	------	-------

1.	Development of Electric Golf Kart	<p>Dr. P Ramakrishna Reddy, Professor HOD-EEE</p> <p>Mr. P Buchibabu, Asst. Professor</p> <p>Mrs E Gouthami, Asst. Professor</p> <p>Ms. B Sai Anvitha (21251A0266)</p> <p>Ms. B Nandini (21251A0297)</p>	
2.	LED Display board	<p>Mrs. PVSSA Parimala, Asst. Professor</p> <p>Ms K BHAVANA (20251A0239)</p> <p>Ms M VAISHNAVI (20251A0218)</p> <p>Ms. C CHAITANYASRI (20251A0230)</p> <p>Ms. S L SAI HIMAMSA (20251A0222)</p>	
	Climate Clock	<p>Mrs. E. Gouthami, Asst. Professor & Mr. Ch. Leela Krishna, Asst. Professor</p> <p>Ms. RAJAPETA GAYATHRI (20251A0247)</p>	
	Retrofitted Electric Bicycle with Hybrid Storage	<p>Dr. P Ramakrishna Reddy, Professor HOD-EEE</p> <p>Ms. T Tejasri (21251A02C0)</p> <p>and</p> <p>Ms. M Chandrika (22255A0213)</p>	
	BMS assisted Li-ion battery for Lead Acid Battery 2-wheeler	<p>Mrs. K Priyamvada, Asst. Professor</p> <p>KOTAGIRI DEEKSHITHA (21255A0221)</p>	
5.	Microcontroller based smart robot vacuum cleaner	<p>Mrs. Suma Deepthi V, Asst. Professor</p> <p>Ms. J MANISHA REDDY (20251A0237)</p>	

6.	Miners Helmet	Mr. Somu Chaitanya, Asst. Professor K VIDMAHI (20251A0215) & Team	
7.	Head Controlled Wheel Chair	Mrs. K. Swarnalatha, Asst. Professor Komaragiri Saideepthi (20251A0240) & Team	
8.	Method and System for providing Solar power based Grass cutter	Dr. P. Rama Krishna Reddy, Professor, HOD-EEE K SRI VARSHA (20251A0213) & Team	
9.	Mosfet/IGBT Driver Boards	Mr. P Sai Niranjan Kumar, Asst. Professor Mr. Shashidhar and Mr. N S Naidu	
10.	Pulse Generators	Mrs. P V S S A Parimala, Asst. Professor Mr. M P Edward Kumar, Lab Technician	
11.	Development of Touch screen assisted control of 3-wheeler using Raspberry pi	Mr. V Badri Rama Krishna, Asst. Professor Mr. CH Leelakrishna, Asst. Professor Mrs. K Priyamvada, Asst. Professor and Mr. S Srinivas, Lab Technician	

5.8.3.C. Instructional Materials:

Instructional material is prepared by the respective faculty for the subject allocated to them for that particular semester. A sample copy of the subject allocation is shown in the table 5.8.3.C for reference. Head of the department and Dean – Academics check the

Table: 5.8.3.C: Subject allocation for which the faculty will prepare instructional material.

S.No	Name of the faculty	Designation	Subject allocated
1	Dr. N. Malla Reddy	Prof & HOD	EM-II-A
2	Dr. P. Rama Krishna Reddy	Professor	PS-I-A

3	Dr. G.Annapurna	Professor	PE-B
4	Dr.R.Nageswara Rao	Professor	PS-I-B
5	Prof.G.Gopinath	Adj.Professor	GIRES-A
6	Sri G.Ramana Reddy	Assoc.Prof	BEE-EEE-A
7	Dr.T.Surya Prakash	Asst.Prof	EM-II-B
8	B. Narmada	Asst Prof	AED-M.TECH
9	G.Ujwala	Asst.Prof	PQ-M.TECH
10	E. Gouthami	Asst.Prof	E&HV-B
11	K.Swarna Latha	Asst.Prof	DG
12	K.Priyamvada	Asst.Prof	GIRES-B
13	P.Buchibabu	Asst.Prof	BEE-EEE-B
14	P.Sai Niranjan Kumar	Asst.Prof	E&HV-A
15	Ch.Leela krishna	Asst.Prof	PE-A
16	Y.Priyanka	Asst.Prof	HVDC&FACTS-M.TECH
17	G.Sujatha	Asst.Prof	PQ&FACTS-A
18	P.Mamta	Asst.Prof	MPMC-B
19	V.Badri Ramakrishnan	Asst.Prof	MPMC-A
20	K.V.Soumya	Asst.Prof	BEE-ECE-A
21	K.V.Dhana Lakshmi	Asst.Prof	BEE-ECE-B
22	PVSSA.Parimala	Asst.Prof	BEE-ECE-C
23	V.Suma Deepthi	Asst.Prof	PQ&FACTS-B
24	S.Bhulakshmi	Asst.Prof	BEE-ETE
25	B.Abbinethri	Asst.Prof	BEE-CST

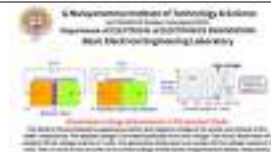
5.8.3.D. Working models, charts:**Working models:**





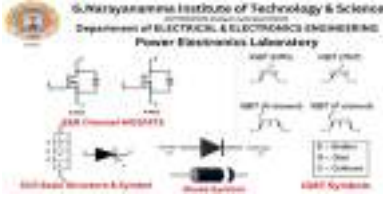

Students carry out various activities under CoEs and research centres which include development of models. These models are built utilising the latest technologies to provide solutions to the real life situations. This gives exposure to the students in knowing the hurdles faced interest in making working models. The working models developed the students under the guidance of faculty are listed in Table 5.8.3.B

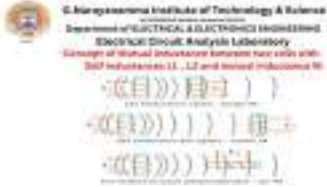
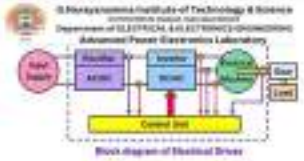
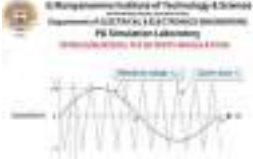
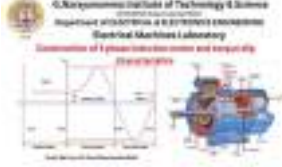
Instructional charts:

The charts are kept in various laboratories of the department. These charts depict, a diagram, table of formulae, Flow diagrams, Component description etc., or other visually organized models. Charts are helpful to students as they serve as reminder of the basic concepts taught

Table 5.8.3.D(2). List of instructional charts in respective laboratories.

S.No	Name of the Lab	Instructional charts
1	BEE lab	

<p>2</p>	<p>MPMC lab</p>	
<p>3</p>	<p>CS Lab</p>	
<p>4</p>	<p>EM&I Lab</p>	
<p>5</p>	<p>PS lab</p>	
<p>6</p>	<p>PE Lab</p>	
<p>7</p>	<p>Python Programming Lab</p>	

8	ECA Lab	
9	APE Lab & AED Lab	
10	Simulation lab	
11	Electrical Machines Lab	

5.8.4 Consultancy (from Industry) (20)

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Energy Monitor	20-01-2023 to	Raghavendra F	320000.00
			Total Amount(X): 320000.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Loop XP platfo	15-12-2021 to	Misplaced Minr	150000.00
Installation of 5	20-08-2021 to	PS Engineers	120000.00
			Total Amount(Y): 270000.00

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount
Training program	21/09/2020 to	NSE-IT Mumb	12008
Energy Monitoring	13-08-2020 to	Sri Sneha Sai I	12500
			Total Amount(Z): 24508

Cumulative Amount(X + Y + Z) = 835080.00

5.9 Faculty Performance Appraisal and Development System (FPADS) (10)

It is well known that the soundness of **the four pillars** namely 1. Management, 2. Faculty, 3. Students & 4. Parents is very essential for any aspiring/growing Educational Institution. Among these the 2nd component namely **“Faculty”** is one factor which can be groomed through various procedures. One such procedure is the **Faculty Performance Appraisal and Implementation System**. With its pro-faculty policies, GNITS has been quite successful in retaining its staff under its umbrella (which is evident by the retention factor of more than 80% for more than 10 years).

A) Faculty Performance Appraisal System:

As already mentioned, GNITS has a well-defined annual increment system which is purely based on the performance of a particular faculty be it teaching or non-teaching. If the performance is good the concerned faculty is given a handsome increment. The performance appraisal form which has the following parameters:

1. Teaching-learning abilities
2. Zeal for Self-Development (like attending FDPs/Workshops/NPTEL & SWAYAM courses and higher qualifications etc.)
3. Continual improvement of Research abilities (Publication of papers in Standard Journals etc)
4. Administrative capabilities
5. Leadership abilities (conduction of technical events, occupation of important positions, etc).

A sample appraisal form of **teaching faculty** is given below:

The form is titled "Faculty Annual Performance Appraisal" and is for the year 2023-24. It is divided into four main parts:

- PART I: Personal Information** - Includes fields for Name, ID, Department, and Position.
- PART II: Teaching Learning & Extension** - Contains a table for self-appraisal (S) and departmental appraisal (D) across various teaching and extension activities.
- PART III: Research & Development** - Contains a table for self-appraisal (S) and departmental appraisal (D) across research and development activities.
- PART IV: Service & Administration** - Contains a table for self-appraisal (S) and departmental appraisal (D) across service and administrative activities.

At the bottom, there is a section for "Appraiser's Comments" and a signature line for the appraiser.

Category 6: Research & Consultancy

Sl. No.	Project Name	Start Date	End Date	Amount	Source	Remarks
1
2

Category 7: Other Activities

Sl. No.	Activity Name	Start Date	End Date	Amount	Source	Remarks
1
2

Category 4: Governance & Administration

Sl. No.	Activity Name	Start Date	End Date	Amount	Source	Remarks
1
2

Signature of the Faculty

ii) Effectiveness of Faculty Appraisal System (Teaching):



iii) Implementation of Faculty Appraisal System (Non-Teaching):

Sl. No.	Particulars	Remarks
1	1. Name of the candidate	Prof. S. Srinivas
2	2. Designation	L.A. Asst.
3	3. Department	EEE
4	4. Date of birth	14/01/1978
5	5. Date of joining	12/12/2003
6	6. Date of appraisal	12/12/2023
7	7. Name of the appraiser	Prof. S. Srinivas
8	8. Designation of appraiser	Prof. S. Srinivas
9	9. Designation of candidate	L.A. Asst.
10	10. Date of appraisal	12/12/2023
11	11. Name of the candidate	Prof. S. Srinivas
12	12. Designation of candidate	L.A. Asst.
13	13. Department of candidate	EEE
14	14. Date of appraisal	12/12/2023
15	15. Name of the appraiser	Prof. S. Srinivas
16	16. Designation of appraiser	Prof. S. Srinivas
17	17. Name of the candidate	Prof. S. Srinivas
18	18. Designation of candidate	L.A. Asst.
19	19. Department of candidate	EEE
20	20. Date of appraisal	12/12/2023
21	21. Name of the appraiser	Prof. S. Srinivas
22	22. Designation of appraiser	Prof. S. Srinivas
23	23. Name of the candidate	Prof. S. Srinivas
24	24. Designation of candidate	L.A. Asst.
25	25. Department of candidate	EEE
26	26. Date of appraisal	12/12/2023
27	27. Name of the appraiser	Prof. S. Srinivas
28	28. Designation of appraiser	Prof. S. Srinivas
29	29. Name of the candidate	Prof. S. Srinivas
30	30. Designation of candidate	L.A. Asst.
31	31. Department of candidate	EEE
32	32. Date of appraisal	12/12/2023
33	33. Name of the appraiser	Prof. S. Srinivas
34	34. Designation of appraiser	Prof. S. Srinivas
35	35. Name of the candidate	Prof. S. Srinivas
36	36. Designation of candidate	L.A. Asst.
37	37. Department of candidate	EEE
38	38. Date of appraisal	12/12/2023
39	39. Name of the appraiser	Prof. S. Srinivas
40	40. Designation of appraiser	Prof. S. Srinivas
41	41. Name of the candidate	Prof. S. Srinivas
42	42. Designation of candidate	L.A. Asst.
43	43. Department of candidate	EEE
44	44. Date of appraisal	12/12/2023
45	45. Name of the appraiser	Prof. S. Srinivas
46	46. Designation of appraiser	Prof. S. Srinivas
47	47. Name of the candidate	Prof. S. Srinivas
48	48. Designation of candidate	L.A. Asst.
49	49. Department of candidate	EEE
50	50. Date of appraisal	12/12/2023
51	51. Name of the appraiser	Prof. S. Srinivas
52	52. Designation of appraiser	Prof. S. Srinivas
53	53. Name of the candidate	Prof. S. Srinivas
54	54. Designation of candidate	L.A. Asst.
55	55. Department of candidate	EEE
56	56. Date of appraisal	12/12/2023
57	57. Name of the appraiser	Prof. S. Srinivas
58	58. Designation of appraiser	Prof. S. Srinivas
59	59. Name of the candidate	Prof. S. Srinivas
60	60. Designation of candidate	L.A. Asst.
61	61. Department of candidate	EEE
62	62. Date of appraisal	12/12/2023
63	63. Name of the appraiser	Prof. S. Srinivas
64	64. Designation of appraiser	Prof. S. Srinivas
65	65. Name of the candidate	Prof. S. Srinivas
66	66. Designation of candidate	L.A. Asst.
67	67. Department of candidate	EEE
68	68. Date of appraisal	12/12/2023
69	69. Name of the appraiser	Prof. S. Srinivas
70	70. Designation of appraiser	Prof. S. Srinivas
71	71. Name of the candidate	Prof. S. Srinivas
72	72. Designation of candidate	L.A. Asst.
73	73. Department of candidate	EEE
74	74. Date of appraisal	12/12/2023
75	75. Name of the appraiser	Prof. S. Srinivas
76	76. Designation of appraiser	Prof. S. Srinivas
77	77. Name of the candidate	Prof. S. Srinivas
78	78. Designation of candidate	L.A. Asst.
79	79. Department of candidate	EEE
80	80. Date of appraisal	12/12/2023
81	81. Name of the appraiser	Prof. S. Srinivas
82	82. Designation of appraiser	Prof. S. Srinivas
83	83. Name of the candidate	Prof. S. Srinivas
84	84. Designation of candidate	L.A. Asst.
85	85. Department of candidate	EEE
86	86. Date of appraisal	12/12/2023
87	87. Name of the appraiser	Prof. S. Srinivas
88	88. Designation of appraiser	Prof. S. Srinivas
89	89. Name of the candidate	Prof. S. Srinivas
90	90. Designation of candidate	L.A. Asst.
91	91. Department of candidate	EEE
92	92. Date of appraisal	12/12/2023
93	93. Name of the appraiser	Prof. S. Srinivas
94	94. Designation of appraiser	Prof. S. Srinivas
95	95. Name of the candidate	Prof. S. Srinivas
96	96. Designation of candidate	L.A. Asst.
97	97. Department of candidate	EEE
98	98. Date of appraisal	12/12/2023
99	99. Name of the appraiser	Prof. S. Srinivas
100	100. Designation of appraiser	Prof. S. Srinivas

I have part as a technical support in the event under climate club assembly organized by GNTS - Anurda Chetty (owner) club on 22nd April 2023

I wanted to learn improve in Salary and EV asst

iv) Effectiveness of Faculty Appraisal System (Non-Teaching):

G.NARAYANANNA INSTITUTE OF TECHNOLOGY & SCIENCE
 AUTONOMOUS (FOR WOMEN)
 SHAIKPET, HYDERABAD - 500 104

REF: GNTS/AD/DR/2023 DL 16/10/2023

OFFICE ORDER

Sub - GNTS - Non-Teaching Staff - Annual Increment - Reg.

The Management is pleased to sanction One increment of Rs.1120/- to Mr. S. Srinivas, Lab Asst. - EEE Department w.e.f.01/10/2023. Accordingly, his New Basic pay will be Rs.40270/- in the pay scale of 25140..39160-1110-42490..73270. Other allowances remain unchanged.

[Signature]
 PRINCIPAL

Copy to: 1. Staff Individual
 2. HOD-EEE
 3. Administrative Office
 4. Accounts Office
 5. Principal Office
 6. Personal File

5.10 Visiting/Adjunct/Emeritus Faculty etc. (10)

There is a provision for the appointment of Adjunct Faculty based on the needs and requirements of the department.

Presently the EEE department **has one adjunct faculty** from academia. Prof. Gadicherla Gopinath has joined this Department as an Adjunct Professor in 2022 and has since been continuing in the same position. Being a core academician with a rich teaching experience of able to share a good blend of theoretical and hands-on experiences on Teaching-Learning methods to both faculty and students. His session during the two-day workshop on “Hands-on Practice of Domestic Appliances” organized by EEE Dept. and held on 20th & 21st of February 2023. All the participants have immensely benefited from his session.



Fig. 5.10.1 Prof. G Gopinath during the demo session on 20.02.23

Earlier in 2021-22 & 2022-23 another person Mr. B. Koti Reddy worked in the EEE department **as adjunct faculty**. Mr. B. Koti Reddy is from Industry. Being a core industrialist with an experience of 30 years in different industries, Mr. B. Koti Reddy is presently working as an organ of Dept. of Atomic Energy in Kothagudam District, Telangana. He has delivered many lectures to both students and faculty on many topics of both Research & Academic interests.



Fig. 5.10.1 Mr. B. Koti Reddy during an on-line session on 20.09.21

The details of the adjunct faculty who worked in the department during the assessment period are given in Table 5.10.1

Table 5.10.1 – Details of adjunct faculty

Sl. No	Name	Previous Work Place	Nature of Appointment	Specialization	Nature of duties
2021-22					
1	Mr.B.Koti Reddy	MHWP	Contract 50 contact hours/year	Power Systems, Control systems	Guidance, Counselling Mentoring
2022-23					
1	Mr.B.Koti Reddy	MHWP	Contract -50 contact hours/year	Power Systems, Control systems	Guidance, Counselling Mentoring

2	Gadicherla Gopinath	GNITS	Contract - 90 contact hours/semester	Control Systems, Electromagnetic Fields	Teaching, Guiding & mentoring
2023-24					
1	Gadicherla Gopinath	GNITS	Contract - 210 contact hours/semester	Control Systems, Electromagnetic Fields	Teaching, Guiding & mentoring
2.	Mr.Jalandar	COIGN Technologies	Contract -180 contact hours/ Year	Training program	Teaching , Career Guidance.

6 FACILITIES AND TECHNICAL SUPPORT (80)

6.1 Adequate and well equipped laboratories, and technical manpower (40)

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	Basic Electrica	4	1.Regulated Pr	27	Mr.M.P.Edward	Lab Assistant	B.Tech in Elect
2	Basic Electrica	4	1.Regulated Pr	27	Mr.B.Shashidh	Lab Assistant	Diploma in Elec
3	Electrical Mach	4	1.Rectifier Unit	18	Mr.K.V.Rama N	Lab Assistant	ITI Electrical
4	Electrical Circu	4	1.Three Phase	18	Mr.K.Srinivasa	Lab Assistant	ITI Electrical
5	Python Prograr	1	1.i5 processor	12	Mr. N.Srinvas N	Lab Technician	Bsc,PGDCA
6	Power Electror	4	1.Four Quadra	18	Mr.S.Srinivas	Lab Assistant	ITI Electrical
7	Microprocessor	1	1.Lenovo NEO	18	Mr.M.Subrama	Lab Assistant	Diploma in Elec
8	Control System	4	1.DC Servomo	18	Mr.B.Sasidhar	Lab Assistant	Diploma in Elec
9	Electrical Meas	4	1.Oil Testing Ki	18	Mr.K.Srinivasa	Lab Assistant	ITI Electrical
10	Power System:	4	1.Current Tran:	12	Mr.B.Sasidhar	Lab Assistant	Diploma in Elec
11	Electrical Simu	1	Lenovo NEO 5	18	Mr.M.Subrama	Lab Assistant	Diploma in Elec
12	Circuits Labora	4	1.Three Phase	18	Mr.K.Srinivas	Lab Assistant	ITI Electrical
13	Electrical Mach	4	1.Rectifier Unit	18	Mr.K.V.Rama N	Lab Assistant	ITI Electrical
14	Electrical Mach	4	1. 3 Phase 5HI	18	Mr.K.V.Rama N	Lab Assistant	ITI Electrical

6.2 Laboratories maintenance and overall ambience (10)

6.2.1 Maintenance**6.2.1(a): Laboratories Maintenance**

- Qualified technical staff is available for maintenance of equipment and the software. Maintenance registers(Fig 6.2.1)consisting of lab maintenance details semester wise are available in all the laboratories.
- Safety instructions and Dos and Don'ts(Fig.6.2.6) are displayed in each laboratory.
- Student log registers(Fig 6.2.3) are maintained
- Annual budgets(Fig 6.2.8) are raised for procurement of required equipment and software according to requirements of the curriculum labs.
- Students are instructed to wear apron and shoes before entering into the Laboratory.(Fig 6.2.9)
- Insulation Mats are laid in the labs with high voltage experiments.(Fig 6.2.10)
- Fire Extinguishers(Fig 6.2.7) are installed in the premises of the lab.
- Safety Instructions boards are displayed in laboratories .(Fig 6.2.11)
- Danger boards are displayed on the panel boards.(Fig.6.2.12)
- Periodic maintenance of all the equipment is done and working condition of equipment verified regularly.
- Checking the backup time of UPS in the laboratory that supports computer systems and LCD projectors.
- Periodic AC Maintenance in software labs.
- Periodic system maintenance.
- USB ports are blocked not to allow pen drive access.
- Cleaning of the floor will be done every day
- Cleaning and dusting the equipment is done on regular basis.

The type of maintenance carried out is listed as in below Table 6.2.1

Table 6.2.1: List of types of Maintenance implemented in the department

S.No	Type of Maintenance	Description
1	Preventive Maintenance	<ul style="list-style-type: none"> • The students are given instructions in handling the equipment before performing the experiments • Display boards of Do's and Don'ts of the Laboratory, list of experiments are placed in every lab. • Stock register(fig 6.2.2) is maintained in Laboratories and audits are conducted by stock verification committee to check the availability and working condition of the equipment. • Proper painting is done on the brake drum of the motors to avoid rusting. • Timely replacement of the belt moving over the brake drums. • By pouring water inside the brake drum, excessive heating of the machines can be reduced in the loaded conditions. • Suitable gauge of the wire based on current rating is used in the fuses to avoid the malfunctioning and breakdown of machines. • The working condition of passive elements and transistors is checked by using Multi meter and other meters in all laboratories. • UPS back up is provided for all computer based laboratories. • Minor repairs are carried out by the lab technicians. When there is a Major repair, service is obtained from external agency.

2	Periodic maintenance	<p><u>Daily maintenance:</u></p> <ul style="list-style-type: none"> • Lab technician checks the working condition of the equipment/systems on daily basis. • Floor cleaning of labs are done every day by housekeeping department of the college. <p><u>Weekly maintenance:</u></p> <ul style="list-style-type: none"> • Floor mopping of labs is done regularly. • Cleaning of equipment and work tables is done regularly. <p><u>Semester End maintenance:</u></p> <ul style="list-style-type: none"> • All equipment's working condition is verified once in six months. • The equipment terminals are tightened and properly fitted before starting of each semester. <p><u>Yearly maintenance:</u></p> <ul style="list-style-type: none"> • Stock verification is done by inspection committee at the end of every year and the report is submitted to the Principal • Scrap items in the laboratories are identified by lab in charges and after the same will be sent to scrap yard. • Fire extinguishers are regularly refilled. • Earth resistance is checked and if it found to be more, earth pit maintenance is carried out by adding required essentials.
3	Breakdown maintenance	<ul style="list-style-type: none"> • It is on demand maintenance activity. • Upon sudden breakdown of equipment, all sorts of required repair work shall be carried out only by skilled and authorized service representative.



Figure 6.2.1 Maintenance Register



Figure 6.2.2 Stock Register

Figure 6.2.3 Student Log Book

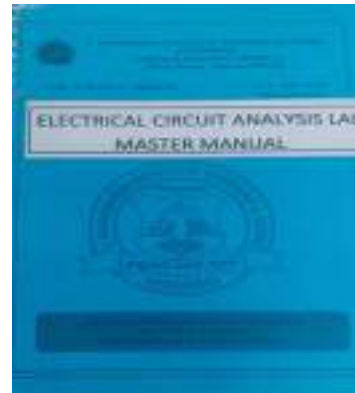


Figure 6.2.4 Lab Manual

Figure 6.2.5 Service Report



Fig 6.2.6. Safety Instructions

Fig 6.2.7. Fire Extinguisher



Fig 6.2.8. Lab Budget Proposal

Fig 6.2.9. Safety Measures followed by students in Lab



Fig 6.2.10. Insulation Mat



Fig 6.2.11. Safety Precautions



Fig 6.2.12 .Danger Boards



Fig 6.2.13 Earthing



Fig 6.2.14. First Aid Kit



Fig 6.2.15. Display of safety measures during Electric shock

6.2.1(b): Additional Maintenance facilities:

In addition to the maintenance of the Department labs some of the Amenities in the campus which cater the power requirements of the Institution are also being maintained by the Department .

1. The Roof Top Solar Power Plant
2. The Wind and Solar Power Plant
3. The Bio-Gas Plant
4. The Power house equipped with Generators

1. Roof Top Solar Power Plant

Capacity:	160KW		
Place:	Admin Block	–	60KW
	F Block	–	40KW
	CSE Block	–	30KW

With a focus on electric power generation through renewable energy sources, the GNITS campus has installed solar panels on its rooftop. The total capacity of the installed solar plant is 160 KW, contributing to the generation of approximately 1300 to 1500 units of electricity towards sustainable and environmentally friendly energy practices.



Figure 6.2.16 Solar Roof Top Power Plant

2. Hybrid Wind and Solar Power Plant:

A hybrid power generation system has been implemented on the rooftop of the EEE building at GNITS, featuring vertical wind turbines with a capacity of 500 W, complemented by solar panels with a 1 KW rating. This combined system is specifically designed to support the department. Given the intermittent nature of wind and solar power generation and considering that wind speeds in Hyderabad are typically below 5 m/s for most of the months, the primary share of electricity generation is attributed to the solar plant component of this hybrid system, with solar energy utilization at the GNITS campus.



Figure 6.2.17 Hybrid Wind and Solar Power Plant

3. Bio Gas Plant:

Capacity: 1000 ltrs
 Company: ACMC Engineering Company
 Place: Beside Canteen

Biogas, a sustainable and renewable energy source, has gained prominence as an environmentally friendly alternative to traditional fuels. This report provides an overview of a biogas plant with a capacity of 1000 liters, highlighting its design, functionality, and potential benefits.

Introduction: Biogas is produced through the anaerobic digestion of organic matter, such as agricultural waste, animal manure, and kitchen scraps. The 1000 liters biogas plant is designed to efficiently convert organic materials into biogas, contributing to both energy generation and waste management.



Figure 6.2.18 Bio Gas Plant

4. Power House:

Backup power systems play a crucial role in ensuring uninterrupted operations in campus. This report provides an overview of the backup power infrastructure, its significance, and maintenance practices within campus.

Types of Backup Power Systems: Diesel Generators: Commonly used for their reliability and quick response during power failures.

Uninterruptible Power Supply (UPS): Safeguards against short-term power fluctuations and provides sufficient time for a smooth transition to a generator in case of a prolonged outage.

Capacity and Sizing: Adequate Capacity: The backup power systems must be appropriately sized to support critical loads, ensuring all essential areas have power during an outage.

Regular Load Testing: Periodic load testing ensures that backup systems can handle the required load in case of an emergency.

Maintenance Practices: Regular Inspections: Scheduled inspections of generators, UPS systems, and associated components to identify and address any issues promptly.

Fuel Quality: Regular checks on the quality and quantity of fuel for diesel generators to ensure reliable performance. Integration with Renewable Energy: Exploring Green Alternatives: GNITS can explore incorporating renewable energy sources, such as solar or wind, to comp

S.No	Details of equipment	Rating
1	Three Phase Transformer Connected load	750KVA (HDC 728), 300KW
2	Generators-3Nos	500KVA,250KVA&125KVA
3	Solar Power Generation: Admin Block(60KW), IT Block (40KW),ECE Block(30KW) and CSE Block (30KW) No of units generated per month 300 to 500Units	160KW
4	UPS Backup	250KVA
5	APFC equipment	150KVAR



Figure 6.2.19 Power House Generators





6.2.2. Ambience






- Department has fully furnished State of the art laboratories which cater to the program as per curriculum requirements.




- All laboratories are equipped with essential equipment to meet the requirements of the curriculum.
- The condition of chairs and computer tables are well maintained.
- Computer laboratories are air-conditioned.
- All laboratories are well Ventilated.
- Cupboards are available in each laboratory for students to place their belongings.
- Each Laboratory is equipped with a board, computer, Internet, and other amenities required for effective presentation.
- Laboratories and Department library are available for faculty and students to carry out research work and academic projects.

6.2.2 (a) The list of Laboratories to meet curriculum requirements & project, requirements are shown in Table 6.2.2

Table 6.2.2: List of Laboratories to meet curriculum requirements

S.No.	Name of the Laboratory	
1	Basic Electrical Engineering Laboratory	
2	Electrical Machines Laboratory	
3	Electrical Circuit Analysis Laboratory	
4	Python Programming Laboratory	

<p>5</p>	<p>Power Electronics Laboratory</p>	
<p>6</p>	<p>Microprocessors and Microcontrollers Laboratory</p>	
<p>7</p>	<p>Control Systems Laboratory</p>	
<p>8</p>	<p>Electrical Measurements & Instrumentation Laboratory</p>	
<p>9</p>	<p>Power Systems Laboratory</p>	

10	Electrical Simulation Laboratory	
11	R&D Laboratory	
12	Project Laboratory	

Besides Technical staff, the Lab-In-Charges (teaching faculty) will involve in the purchase of equipment required for the lab, lab budget proposals, lab manuals preparation and supervision of lab maintenance activities. The list of Lab In Charges is shown in Table 6.2.3.

6.2.2 (b) Teaching Faculty (Lab In-Charge) Details:

Lab In-charges will take care of Budget proposal of Laboratories, Maintenance on the records of the Laboratories such as stock register, maintenance registers, lab manuals.

Table 6.2.3: List of Lab In-charges

S. No	Name of the Faculty	Designation	Qualification	Name of the Laboratory
1	Dr. P. Ramakrishna Reddy	Professor, HOD, E.E.E	Phd	Power Systems Laboratory
2	Mr. G. Ramana Reddy	Associate Professor	M.Tech(Phd)	Power Electronics Laboratory
3	Mrs. Narmada Byreddy	Assistant Professor	M.Tech	Electrical Circuit Analysis Laboratory
4	Mrs E. Gauthami	Assistant Professor	M.Tech(Phd)	MPMC Laboratory
5	Dr.R.Nageswara Rao	Professor	Ph.d	R&D laboratory
6	Mrs K. Swarna Latha	Assistant Professor	M.Tech(Phd)	Control Systems Laboratory
7	Mrs K. Priyamvada	Assistant Professor	M.Tech(Phd)	Electrical Machines Laboratory
8	Mr P. BuchiBabu	Assistant Professor	M.Tech(Phd)	Basic Electrical Engineering Laboratory.
9	Mr Ch. Leela Krishna	Assistant Professor	M.Tech	Python Programming Laboratory.
10	Mr V. Badri RamaKrishnan	Assistant Professor	M.Tech(Phd)	Project Laboratory.
11	Dr G. Satheesh	Assistant Professor	Phd	Electrical Measurements & Instrumentation Laboratory

The technical staff attend various workshops and training programs for updation and enhancement of their skill set. The list of training programs attended by technical staff is shown in table 6.2.4.

Table 6.2.4: Training Programs Attended by Technical staff:

S.No	Name of the Technical Staff	Workshops/Training Program attended	Organising Institute	Duration
1	Mr .S .Srinivas	Workshop on Effective Communication Skills at Work place	Discipline of English. H&M Dept, GNITS	8-2-2023 to 9-2-2023
2	Mr. S .Srinivas	Workshop on Hands on Practice of Domestic Appliances	Department of Electrical & Electronics Engineering, G.N.I.T.S	20-02-2023 to 21-02-2023
3	Mr. S. Srinivas	In-House training program on MS Office	Department of CSE/IT, G.N.I.T.S	20-11-2021 to 18-12-2021
4	Mr .S. Srinivas	Energy Literacy Training	Energy Swaraj Foundation	3-04-2023 to 17-04-2023
5	Mr. K.V. Rama Mohana Rao	Workshop on Effective Communication Skills at Work place	Discipline of English. H&M Dept, GNITS	8-2-2023 to 9-2-2023
6	Mr. K.V. Rama Mohana Rao	Workshop on Hands on Practice of Domestic Appliances	Department of Electrical & Electronics Engineering, G.N.I.T.S	20-02-2023 to 21-02-2023
7	Mr .K. Srinivasa Rao	Workshop on Effective Communication Skills at Work place	Discipline of English. H&M Dept ,GNITS	8-2-2023 to 9-2-2023
8	Mr. K. Srinivasa Rao	Workshop on Hands on Practice of Domestic Appliances	Department of Electrical & Electronics Engineering, G.N.I.T.S	20-02-2023 to 21-02-2023
9	Mr. B. Shasidhar	Workshop on Python Programming	Department of CSE & IT, G.N.I.T.S	24-02-2023 to 25-02-2023
10	Mr .B. Shasidhar	Workshop on Effective Communication Skills at Work place	Discipline of English. H&M Dept,GNITS	8-2-2023 to 9-2-2023
11	Mr .M.P. Edward Kumar	Workshop on Effective Communication Skills at Work place	Discipline of English. H&M Dept,GNITS	8-2-2023 to 9-2-2023
12	Mr .M.P .Edward Kumar	Workshop on Hands on Practice of Domestic Appliances	Department of Electrical & Electronics Engineering, G.N.I.T.S	20-02-2023 to 21-02-2023
13	Mr. M.P. Edward Kumar	Workshop on Python Programming	Department of CSE & IT, G.N.I.T.S	24-02-2023 to 25-02-2023
14	Mr .N. Srinivas Naidu	Webinar on Motor selection and Modelling using Matlab	ISIEINDIA	27-02-2023
15	Mr .N. Srinivas Naidu	Energy Literacy Training	Energy Swaraj Foundation	24-03-2023 to 25-03-2023
16	Mr .N. Srinivas Naidu	Certification on MSOffice,Excel,Word ,Access & Power Point 2019	Udemy	March 15 2022
17	Mr .N. Srinivas Naidu	Workshop on Hands on Practice of Domestic Appliances	Department of Electrical & Electronics Engineering, G.N.I.T.S	20-02-2023 to 21-02-2023
18	Mr .N. Srinivas Naidu	Course on Introduction to TCP/IP	Yonsei University by Coursea	March 2022

19	Mr .M .Subramanyam	Virtual Workshop on Alternative Drives for Automotive	SkyRider Institution	28-04-2023
20	Mr. M. Subramanyam	FDP on Matlab and Simulink Basics for Hardware Projects	EEE Dept NITTTR,Chandigarh	01-08-2022 to 05-08-2022
21	Mr. M. Subramanyam	AICTE/ISTE approved refresher Program on Electric Vehicles	Vardhaman College of Engineering. Hyderabad	17-02-2022 to 23-02-2022
22	Mr. M. Subramanyam	Energy Literacy Training	Energy Swaraj Foundation	24-03-2023 to 25-03-2023
23	Mr .M. Subramanyam	Online Course on Python in Hindi	Mindluster.com	01-06-2023 to 12-07-2023
24	Mr. M. Subramanyam	Webinar on Motor selection and Modelling using Matlab	ISIEINDIA	27-02-2023



Figure 6.2.20 sample copy of Participant Certificate in STTP

6.3 Safety measures in laboratories (10)

Sr. No	Laboratory Name	Safety Measures
1	Basic Electrical Engineering Laboratory-1	Fire Extinguishers First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Danger boards are displayed at the Panel boards. Electrical earthing presence of the instructor or lab staff. Emergency power shutdown facility is provided. Insulation mats are provided on the ground to prevent shocks. Students are instructed to
2	Basic Electrical Engineering Laboratory-II	Fire Extinguishers First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Danger boards are displayed at the Panel boards. Electrical earthing presence of the instructor or lab staff. Emergency power shutdown facility is provided. Insulation mats are provided on the ground to prevent shocks. Students are instructed to
3	Electrical Machines Lab	Fire Extinguishers First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Danger boards are displayed at the Panel boards. Electrical earthing presence of the instructor or lab staff. Emergency power shutdown facility is provided. Insulation mats are provided on the ground to prevent shocks. Students are instructed to
4	Microprocessors & Microcontrollers Laboratory	Fire Extinguishers, First Aid Box, MCBs, Safety Charts and Safety Instructions
5	Power Electronics Laboratory	Fire Extinguisher First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Electrical earthing is well maintained. Power supply terminals connect shutdown facility provided. Students are instructed to wear apron & shoes.
6	Python Programming Laboratory	First aid kit. Guidelines and instructions are displayed in the laboratory. Students are instructed to wear apron & shoes. Emergency power shutdown facility provided.
7	Electrical Circuit Analysis Laboratory	Fire extinguisher. First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Electrical earthing is well maintained. Students are instructed to wear
8	Control Systems Laboratory	Fire extinguisher. First aid kit. Guidelines and instructions are displayed in the laboratory. Power supply terminals connected to any circuit are energized with the presence of the
9	Electrical Measurements& Instrumentation Laboratory	Fire Extinguishers First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Power supply terminals connected to any circuit are energized with t
10	Power Systems Laboratory	First aid kit. Fire extinguisher. Safety measures boards/flexis are displayed at prominent places of the labs. Electrical earthing is well maintained. Power supply terminals connect shutdown facility provided. Students are instructed to wear apron & shoes.

11	Electrical Simulation Laboratory	Fire extinguisher. First aid kit. . Safety measures boards/flexis are displayed at prominent places of the labs. Students are instructed to wear apron & shoes.
12	Electrical Machines-1 Lab	Fire extinguisher First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Danger boards are displayed at the Panel boards. Electrical earthing is in the presence of the instructor or lab staff. Emergency power shutdown facility is provided. Insulation mats are provided on the ground to prevent shocks. Students are instructed to wear apron & shoes.
13	Electrical Machines-2 Lab	Fire extinguisher First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Danger boards are displayed at the Panel boards. Electrical earthing is in the presence of the instructor or lab staff. Emergency power shutdown facility is provided. Insulation mats are provided on the ground to prevent shocks. Students are instructed to wear apron & shoes.
14	Circuits Laboratory	Fire extinguisher. First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Electrical earthing is well maintained. Students are instructed to wear apron & shoes.
15	R&D Lab	First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Students are instructed to wear apron & shoes. Emergency power shutdown facility provided.
16	Project Lab	First aid kit. Safety measures boards/flexis are displayed at prominent places of the labs. Students are instructed to wear apron & shoes. Emergency power shutdown facility provided.

6.4 Project laboratory (20)





6.4.1. Project Lab





- The department has an exclusive project lab, where students predominantly utilize the facilities to execute their projects.
- This dedicated space provides students with essential resources and infrastructure conducive to innovative project development.
- The department Project Laboratory equipped with CROs, Function Generators, RPS and Soldering Iron is utilized by the students to carry out their major and minor hardware projects.
- The hardware projects expo is also conducted to provide a platform for students to display their innovative hardware creations and share their knowledge with a wider audience. Some of the developed products have been successfully patented.
- Project work commences for students during the sixth semester for R-18 regulation admitted students and fourth semester for R-22 regulation admitted students, with a primary focus on addressing social and industrial needs.
- Students engage with real-time challenges and collaborate as a team alongside faculty supervisors to devise high-quality prototype solutions.
- EEE Department is also having a dedicated space for Project lab and is equipped with tools, equipment, and resources for designing, prototyping, and testing hardware-based projects.
- Project laboratories plays a crucial role in hands-on learning, research, and development of electrical & 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 components available in the project lab are shown in table 6.4.1

Table 6.4.1: List of Components in Project Lab

Sl. No.	Component/Microcontroller Name	Image
1	Arduino Uno with sensor Kits for Training and Testing	
2	CRO with Probes	
3	ESP32 with CAM IOT controller	

4	ESP32 Generic Module and Node MCU	
5	18650 lithium Ion Battery and Super capacitor (15V each)	
6	Raspberry Pi Controller with Memory card	
7	Mosfets and IGBTs(set)	

8	ACS712 Current sensors 5A,20A,30A	 A blue printed circuit board (PCB) module for an ACS712 current sensor. It features a green potentiometer at the top, a central integrated circuit (IC), and several pins at the bottom. The board is labeled with 'VCC', 'GND', 'OUT', and 'I+ I-'.
9	Robotic platform	 A collection of components for a robotic platform. It includes a brown PCB, two yellow wheels, a black motor, a battery pack, and various electronic components like resistors and capacitors.
10	TI DSP F28069	 A red printed circuit board (PCB) module for a TI DSP F28069. It features a central integrated circuit (IC) and various pins and components.
11	GSM and GPS modules	 Two blue printed circuit board (PCB) modules. The top one is a GSM module with a small antenna and a SIM card slot. The bottom one is a GPS module with a larger antenna and various pins.

12	Zigbee Modules	
13	Basic components, Accessories and Laboratory Equipments	
14	Desktop PC	Intel core-i5 Processor, 16Gb RAM, 1TB SSD

In addition to the Project Laboratory, there are various other lab facilities also provided to the students for their project execution as shown in table 6.4.2.

Table 6.4.2: List of Additional lab facilities for execution of projects

S.No	Laboratory Name
1.	R&D Lab
2.	Center of Excellence for Electric Vehicles
3.	Center of Excellence for Renewable Energy Systems
4.	Center of excellence for Advanced Electric Drives
5.	Center of Excellence for Virtual Reality



The above labs cater to the requirements of the Mini/Major projects and faculty research.



6.4.2. Research &Development Laboratory






The Research Laboratory has been established to enhance the research capabilities of power engineers within the department, facilitating undergraduate, postgraduate, and research scholars in advancing technology transfer across various domains in power systems, power electronics.

The major equipment of the R&D lab is shown in table 6.4.3

Table 6.4.3 : List of Major equipment in R&D lab

S.No	Name of Equipment	Specifications	Image
1	FPGA Spartan 6 LX25 With Matlab Interfacing	Digital and Analog Pins with Specified Matlab Toolbox for Simulink based Design	
2	TMS320F28335 (DSP) with Matlab Interface	PWMs, Analog and Digital pins with TI toolbox for Matlab simulink based Interfacing	

3	Solar panels	1KWp, 110V, 8A DC output for Experiments	
4	Desktop PC count 9	Intel Core i5 processor with 16GB ram and 1TB HDD	
5	Power Analyser (HIOKI)	Supports up to 400 Hz, Harmonic Measurement in the range of 2kHz to 80kHz, Measurement of transient voltages up to 6000V from 5kHz to 700kHz	
6	Intelligent power module	440V AC 3 leg converter	
7	5 Phase Inverter (IGBT Module)	0-230V 50Hz IGBT with 5 Legs	

8	3-Phase Multilevel Inverter Module	0-230V, 50Hz 1-Phase Input	
9	Smart Power Module	6 Mosfet with 3 Legs, 0-230 V 50Hz input	
10	Chopper /Inverter PWM Controller	6 PWM outputs for the Mosfets or IGBTs	
11	Three Phase Matrix converter	3-Phase, 400V, 50Hz Input with protection circuit for Multilevel outputs	
12	Spartan 6 FPGA Motor Control Board	TI make FPGA Board with interfacing capability of PWM pins with motor	

6.4.3. Center of Excellences & Research Centres in EEE Department

- Center of Excellences (CoEs) and Research Centers of EEE Department focus on specific expertise areas, serving as knowledge hubs, offering training, consultation, and fostering collaboration.
- Our Research Centers are dedicated to conducting focused research, securing funding, collaborating with partners, and often bridging academia with industry.
- Centers of excellence also look after accessing their resources, participating in their programs, collaborating on research projects, seeking expertise and advice, and leveraging networks to advance academic, professional, and societal goals. EEE Department Center of

Table 6.4.4: List of Center of Excellences and Research Centers

S.No	Name of CoE	Center In-charge	Faculty C
------	-------------	------------------	-----------

1	Center of Excellence for Electric Vehicles	Dr. P. Rama Krishna Reddy, Professor HOD-EEE	M Mr. V E Mr. P:
2	Center of Excellence for Advanced Power Electronics Converters	Dr. N. Malla Reddy Professor, EEE Dept. Dean, Admissions	Mr. Mrs Mrs. M
3	Center of Excellence for Renewable Energy Systems	Dr. G. Annapurna Professor In-Charge HOD-EEE	D N Mrs.
4	Center of Excellence for Virtual Reality	Dr. R. Nageswara Rao Professor ,EEE Dept.	Mi I :
5	Center for Power and Energy Systems	Mrs. E. Gouthami Asst. Professor, EEE Dept	Dr. K Mr Mrs M
6	Center for IoT and Embedded Systems	Mr.V. Badri Rama Krishnan Asst Professor, EEE Dept	Mr.C Mrs Mr. Mr

6.4.3(a) Center of Excellence for Electric Vehicles

Outcomes of CoE:

- Development of breakthrough technologies and solutions that enhance the efficiency, performance, and sustainability of electric vehicles
- Graduates and professionals equipped with cutting-edge knowledge and skills through training programs offered by the CoE
- A culture of continuous improvement within the CoE, leading to ongoing advancements in research priorities, infrastructure, and collaboration strategies.
- Dissemination of research findings through publications, conferences, and workshops, contributing to the global knowledge base in electric vehicle technology.



Fig 6.4.1 Visit to Eride facility by our faculty



Fig .6.4.2 Students Participation in Ather 2W EV Teardown workshop

LIST OF ACTIVITIES UNDER CoE-EV:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences	No. of Patents published/granted
2020-2021	-	2	4	2
2021-2022	1	2	2	1
2022-2023	1	3	3	-
2023-2024	-	-	1	1

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
 Autonomous (For Women)
 Department of Electrical and Electronics Engineering
 Activities under CoE-Electric Vehicles

Societal Benefit Project:
RETROFITTING AN E-BICYCLE WITH HYBRID STORAGE SYSTEM

Highlights: This project aims to improve the efficiency and range of an electric bicycle by integrating a hybrid storage system. The system is designed to store energy during braking and use it for propulsion, reducing the need for frequent recharging.

Technological Features: The system incorporates a hybrid storage system, including a battery pack and a supercapacitor. The system is designed to store energy during braking and use it for propulsion, reducing the need for frequent recharging.

Block Diagram and Parameters:

- The innovative system not only combines a high-capacity battery for sustained energy but also incorporates super capacitors for rapid energy regeneration and quick bursts of power. The intelligent energy management system ensures optimal utilization, providing riders with an extended range, enhanced performance, and reduced charging times.
- Parameters: 36V, 10Ah, 100W, 1000mAh, 1000V, 1000A, 1000W, 1000V, 1000A, 1000W, 1000V, 1000A, 1000W

Faculty Coordinator:
 Dr. F. ManojKumarReddy



6.4.3(b) : Centre of Excellence for Advanced Power Electronic Converters

Outcomes of CoE:

- Successful integration of power converters into renewable energy systems, contributing to enhanced reliability and efficiency.
- Demonstration of the practical application of power electronic converters in solar, wind, and other clean energy sources.
- Execution of collaborative research initiatives leading to real-world applications and solutions.



Fig.6.4.3. Project execution by the students

LIST OF ACTIVITIES UNDER CoE-APEC:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/ conferences	No. of Patents published/ granted
2020-2021		5	5	2

2021-2022	1	4	2	-
2022-2023		4	9	-
2023-2024		4	1	2

6.4.3(c) Centre of Excellence for Renewable Energy Systems

Outcomes of CoE:

- Successful transfer of research findings to the industry, leading to the commercialization of new and improved renewable energy solutions.
- Incubation and support for startups and entrepreneurs in the renewable energy sector.
- Advocacy for sustainable energy policies that address climate change and promote a transition to clean energy sources.
- Contribution to the development of international standards for renewable energy technologies.




Fig 6.4.4 Commissioning of Wind - Solar Hybrid System


LIST OF ACTIVITIES UNDER CoE-RES:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences	No. of Patents published/granted
2020-21	-	7	4	2
2021-22	1	5	4	-

2022-23	-	8	9	-
2023-24	-	7	6	3



G. Narayanamma Institute of Technology and Science
(For Women) (AUTONOMOUS)
Shaikpet, Hyderabad, Telangana – 500104
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Centre of Excellence for Renewable Energy Systems

Profile

- Renewable energy is a key component in mitigating climate change by reducing greenhouse gas emissions.
- Enhance energy efficiency by diversifying the energy mix and improving the reliability of the overall energy systems.

Key Areas of Focus

Faculty - Incharge

Dr. C. Annapurna, Professor

Faculty co-ordinators

Dr. T. Himabindu, I.Mes. G. Jayashree, I.Mes. Nageswari Pyreddy

Proposals

- Implementation of Floating PV based electric vehicle using intelligent control Supervision & Battery with total Cost of Project is ₹48,00,000.
- Design, Development and Implementation of Floating Sensor and photo Collecting Station powered by Solar Photovoltaic System to separate lake ecosystem with total cost of project is ₹ 70,00,000.

Projects

- Renewable Energy Source, Automatic Connected to Smart Grid.
- Smart Fault Detection and Monitoring System in Solar Panels.
- MPGE-Active Self Power Generating Intelligent Electric Vehicle.

Projects

- U.G. - 8
- Ph.D. - 4

6.4.3(d) Centre of Excellence for Virtual Reality

Outcomes of CoE:

- Cross-disciplinary projects and collaborations resulting in new perspectives and applications for VR technology.
- Gradual integration of VR literacy into educational systems, promoting a more informed and adaptable society.
- Recognition as a hub for nurturing talent, innovation, and entrepreneurship within the broader VR ecosystem.

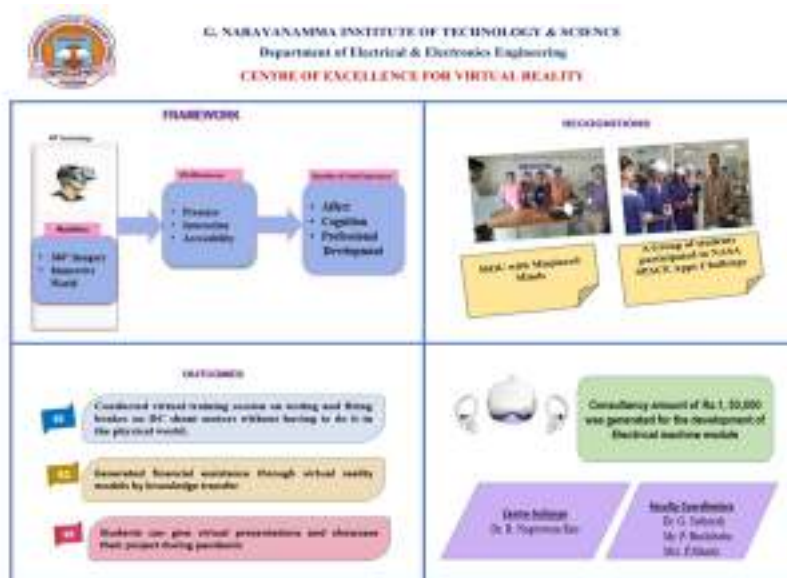


Fig.6.4.5 Students Performing experiments on a VR platform

LIST OF ACTIVITIES UNDER CoE-VR:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences
2020-21	-	-	-
2021-22	2	1	-
2022-23	-	1	-

2023-24	-	-	-
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6.4.3(e) Centre for Power and Energy Systems

Outcomes of RC-PES:

- Implementation of advanced control systems that enhance the stability and reliability of power grids and enable the seamless integration of diverse energy sources
- Successful implementation of collaborative projects with industry partners, resulting in the application of research outcomes in real-world scenarios
- Spreading of research findings through publications, conferences, and public outreach programs, contributing to the global knowledge base in power and energy systems.



Fig.6.4.6 Visit of Solar Man of India to Campus

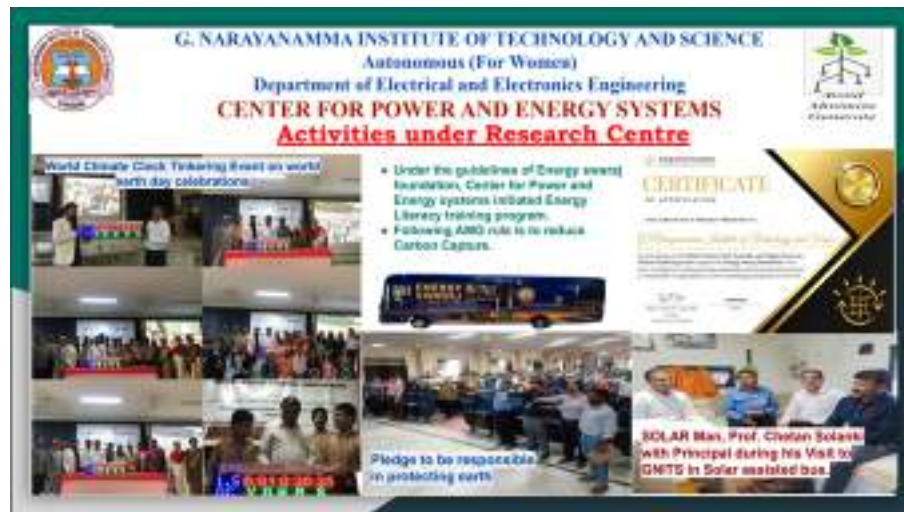


Fig.6.4.7 World Climate Clock Setting by the Faculty and Students

LIST OF ACTIVITIES UNDER RC-PES:

Academic Year	No. of Training Programs conducted/attended	No. of Projects	No. of paper publications/conferences	No. of Patents published/granted
2020-21	-	6	4	-

2021-22	1	6	1	-
2022-23	-	6	3	-
2023-24	-	3	2	2



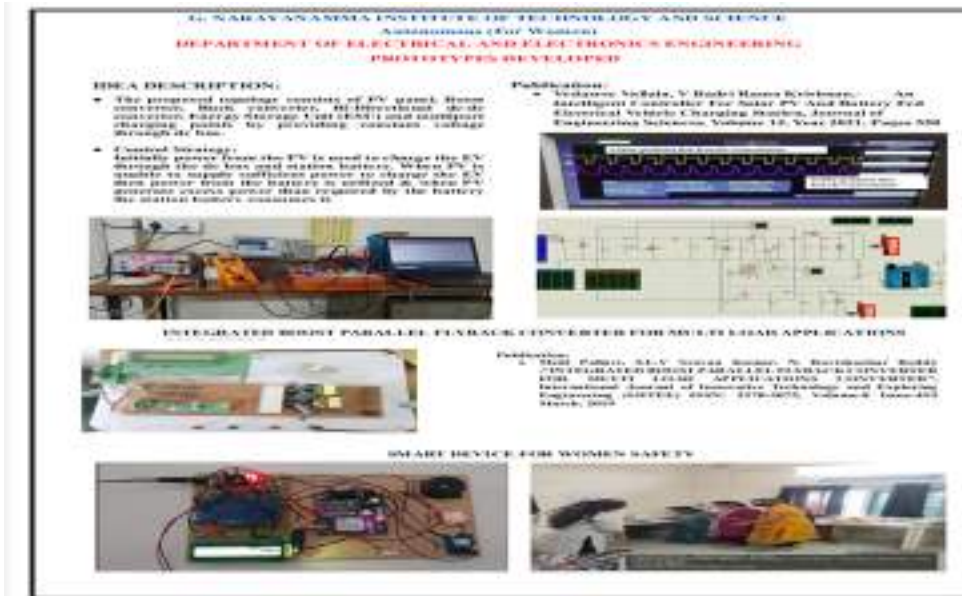
6.4.3(f) Center for IoT & Embedded Systems

Outcomes of RC-IOT :

- Development and implementation of innovative technologies and solutions that address key challenges in IoT and Embedded Systems, leading to advancements in the field
- Graduates and professionals equipped with the knowledge and skills required for successful careers in IoT and Embedded Systems, contributing to a skilled and adaptive workforce
- A thriving collaborative ecosystem with established partnerships and joint projects contributing to a collective pool of knowledge, resources, and expertise.

LIST OF ACTIVITIES UNDER RC-IOT:

<i>Academic Year</i>	<i>No. of Training Programs conducted/attended</i>	<i>No. of Projects</i>	<i>No. of paper publications/conferences</i>	<i>No. of Patents published/granted</i>
2020-21	-	5	-	3
2021-22	1	8	-	1
2022-23	-	3	12	-
2023-24	-	3	-	4



6.4.4. The list of Best Projects Selected Academic Year Wise:

To encourage the students for conduction of good quality of projects by exploring latest technology the best project selection process is being implemented in the Department.

Academic Year 2020-2021:

Table 6.4.5: List of best projects for the Academic Year .2020-21

S.No	Student Roll No	Student Name	Project Title
1.	17251A0205	D.Sai Harshitha	Non-isolated DC-DC Converter fed to different levels of Diode Clamped Multi-level Inverter
	17251A0254	Sai Deepshika Yalam	
	17251A0203	Bommena Snikitha	
	17251A0249	Paty Preethi	
	17251A0253	S. Jagadeesh Nikhitha	
2.	17251A0258	Vangari Bhavana	Energy efficient and fully autonomous residential power management solution
	18255A0208	Dodla Anitha	
	17251A0201	Ambati Keerthisri	
	17251A0212	laveti Deeksha Sree	
	174251A0229	Varsha Singannagari	

3.	17251A0246	Maheen Fathima	Design of hybrid forward boost converter for renewable energy powered electric vehicle charging applications
	18255A0205	Teppa Komala	
	17251A0259	Yalakamani Sunita	
	17251A0225	Seema Shirin	
	17251A0214	M Archana	
4.	17251A0268	Chelpur Bhavana	Iot Based Tampered Energy Meter Monitoring
	17251A0298	Itikyala Mouna	
	17251A0274	Kota Vandana Priya	
	17251A02A2	Korivi Lalasa	
	18255A0221	Pilli Rachana	
5	18255A0217	Ashpa Alekhya	
	17251A0271	Gaanalola Tankasala	
	18255A0214	Mandala Shirisha	
	17251A0287	Talari Anupama	

Academic Year 2021-2022:**Table 6.4.6 : List of Best projects for the A.Y.2021-22**

S.No	Roll No	Student Name	Project Title
1	18251A0258	Vadyala Kavya	Voice integrated speed and direction control of DC motor
	18251A0245	Kavali Akshatha	
	18251A0256	Tedla Monica	
	18251A0252	Sree Haritha P	
	18251A0250	Nagapuri Sai Sruthi Yadav	
2	18251A0208	Etikela Sai Nikhitha	Prototype of Transmission line fault detection using Arduino with GSM and GPS
	18251A0224	Samrin Sultana	
	18251A0215	Katru Rinny	
	18251A0254	Shaik Karishma	
	18251A0244	Mohammad Anjum Thabasum	
	19255A0201	Katla Priyanka	

3	18251A0278	L.Vinitha	Hybrid power generation of solar & wind energy monitoring through IoT
	18251A02B7	Suroju Uma Maheshwari	
	18251A0265	Chelmal Gowri Nandana	
	18251A02A8	Mekala Shirisha	
	18251A0262	Balamvenelareddy	
4	18251A0257	Udarapu Gurucharana	Design and implementation of automatic solar street light
	18251A0204	Banavath Swetha	
	18251A0248	Macha Sneha	
	18251A0220	Nagarala Meghana	
	18251A0216	Lavadiya Prasanna	

Academic Year 2022-2023

Table 6.4.7: List of Best Project Projects for the A.Y.2022-23

S.No	Roll No	Student Name	Project Title
1	19251A0242	Nalla sreeja reddy	Hardware design and simulation of boost coverter
	19251A0218	Ch supraja	
	19251A0238	Madhapuram smithika	
	19251A0207	Bode shreya yadav	
	19251A0209	Besolla aishwarya	
	19251A0253	Tejavath bhargavi	
2	19251A0234	Kaparthi aalaya	Rotor and grid side control of DFIG based wind energy system
	19251A0249	Sabavath tejashwini	
	19251A0214	Bhore neha	
	19251A0228	Govala sai pravallika	
	19251A0206	Alakuntla yashaswini	
3	19251A02B4	Thadishetti shivani	A new non-isolated multi input DC-DC converter
	19251A0285	Macharla siri chandana	
	19251A0278	Jaina navaneetha	
	19251A02B2	Thiruvedhula priyanka	
	19251A0290	Mariyan indhu sri	

4	20255A0209	Jogula.sri chandana	UPS battery monitoring system
	19251A0291	Martha thanuja	
	19251A0293	Mogili sriharshitha	
	19251A0261	Alapati shrilasya	
	19251A0279	Jakka bhavani	

Activities carriedout in Project Lab:



Fig.6.4.8 Workshop on Tinkercad



Fig.6.4.9 Project Expo by students



Fig6.4.10 Workshop on Power Electronics Hardware








Fig 6.4.11 Visit by Faculty to Retron Energies for Knowledge Training and Project Development Activities

6.4.5. Products developed Under Project Lab:

Some projects developed with Sustainability, Societal Impacts , EV Transportation and Renewable Energy as theme in the Department project labs are shown in table no. 6.4.8

Table 6.4.8 :Sample products under Project lab

S.No	Title	Team	Image
1.	Development of Electric Golf Kart	Dr. P Ramakrishna Reddy, Professor HOD-EEE Mr. P Buchibabu, Asst. Professor Mrs E Gouthami, Asst. Professor Ms. B Sai Anvitha (21251A0266) Ms. B Nandini (21251A0297)	
2.	LED Display board	Mrs. PVSSA Parimala, Asst. Professor Ms K Bhavana (20251A0239) Ms M Vaishnavi (20251A0218) Ms. C Chaitanyasri (20251A0230) Ms. S L Sai Himamsa (20251A0222)	
3	Climate Clock	Mrs. E. Gouthami, Asst. Professor & Mr. Ch. Leela Krishna, Asst. Professor Ms. Rajapeta Gayathri (20251A0247)	
4	Retrofitted Electric Bicycle with Hybrid Storage	Dr. P Ramakrishna Reddy, Professor HOD-EEE Ms. T Tejasri (21251A02C0) and Ms. M Chandrika (22255A0213)	
5	BMS assisted Li-ion battery for Lead Acid Battery 2-wheeler	Mrs. K Priyamvada, Asst. Professor Kotagri Deekshitha (21255A0221)	

6	Microcontroller based smart robot vacuum cleaner	Mrs. Suma Deepthi V, Asst.Professor Ms.J Manisha Reddy (20251A0237)	
7	Miners Helmet	Mr. Somu Chaitanya, Asst.Professor K Vidmahi (20251A0215) & Team	
8	Head Controlled Wheel Chair	Mrs.K.Swarnalatha, Asst.Professor Komaragiri Saideepthi (20251A0240) & Team	
9	Method and System for providing Solar power based Grass cutter	Dr.P.RamaKrishna Reddy, Professor, HOD-EEE K Sri Varsha (20251A0213) & Team	
10	Mosfet/IGBT Driver Boards	Mr. P Sai Niranjan Kumar, Asst.Professor Mr. Shashidhar and Mr. N S Naidu	
11	Pulse Generators	Mrs. P V S S A Parimala, Asst.Professor Mr. M P Edward Kumar, Lab Technician	
12	Development of Touch screen assisted control of 3-wheeler using Raspberry pi	Mr. V Badri Rama Krishna, Asst.Professor Mr. CH Leelakrishna, Asst.Professor Mrs. K Priyamvada, Asst.Professor and Mr. S Srinivas, Lab Technician	

6.4.6. Virtual Laboratory:

- The Virtual Labs provides the result of an experiment by one of the following methods (or possibly a combination).
- Modelling the physical phenomenon by a set of equations and carrying out simulations to yield the result of the experiment. It can, at best, provide an approximate version of the real-world experiment.

- Providing measured data for virtual lab experiments corresponding to the data previously obtained by measurements on an actual system.
- In another method, it remotely triggers an experiment in an actual lab and provides the student with the experiments result through the computer interface. Such a process entails carrying out the actual lab experiment remotely.
- Virtual Labs are made more practical and realistic by providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- To provide remote access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, postgraduate level, and research scholars.
- To entuse students to conduct experiments by arousing their curiosity. Moreover, it helps them learn basic and advanced concepts through remote experimentation.

The following Virtual Laboratory facilities are available in the Electrical and Electronics Department

- Electrical Simulation Laboratory
- Microprocessors and Microcontrollers laboratory
- Python Programming Laboratory
- Power Systems Laboratory
- Power electronics Laboratory
- Control Systems Laboratory
- Electrical Circuit Analysis Laboratory

7 CONTINUOUS IMPROVEMENT (75)

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.45	2.16	The Target Level is attained. Though the target value is re Elective-II (Database Management Systems) C404 -Progr
Action 1: For Course C325: Students were offered academic counselling and few lab sessions were conducted to assist students in understanding DBMS concepts and overcoming challenges. Action 2: For Course C325: Implemented regular assessr guidance for improvement. Action 3: For Course C404: Students were provided with access to structured learning resources such as textbooks, online courses and tutorials covering PLC programming fundamentals and advanced concepts.			
PO 2 : Problem Analysis			
PO 2	1.34	2.03	The Target Level is attained. Though the target value is re Engineering Graphics C418 - Grid Integration of Renewab
Action 1: For Course C104: Encouraged Students to solve more problems through tutorial classes and assignments. Action 2: For Course C418: Organized industry visits and guest lectures to facilitate practical learning experiences and industry netw related to grid integration of renewable energy systems, allowing them to explore advanced topics and contribute to the field's knowledge base.			
PO 3 : Design/development of Solutions			
PO 3	1.39	2.06	The Target Level is attained. Though the target value is re Systems –II C318 - Microprocessors and Microcontrollers
Action 1: For Course C302: Organized industry visits and guest lectures to facilitate practical learning experiences and industry networking. Action 2: For Course C318: Provided hands-on laboratory sessions where students can experiment with micro with practical application.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.15	1.79	The Target Level is attained. Though the target value is re Electronics C110 - Numerical Techniques and Transform C
Action 1: For Course C110: Encouraged Students to solve more problems through tutorial classes and assignments. Action 2: For Course C303: Students are encouraged to register various self-learning/certification courses. Action 3: For Course C318 competency with complex concepts and content.			
PO 5 : Modern Tool Usage			
PO 5	1.22	1.85	The Target Level is attained. Though the target value is re Electric Drives
Action 1: For Course C403: Modern pedagogy tools assist students in designing and developing solutions to various problems and Encouraged Students to solve more problems through tutorial classes and assignments.			
PO 6 : The Engineer and Society			
PO 6	1.19	1.84	The Target Level is attained.
Action 1: No Action taken.			
PO 7 : Environment and Sustainability			
PO 7	1.27	1.96	The Target Level is attained. Though the target value is re Material Science C302 - Power Systems –II
Action 1: For Course C211: Deliver engaging lectures that incorporate multimedia presentations, demonstrations to make the subject matter more accessible and interesting. Action 2: For Course C302: Facilitate interactive learning activities such as g and deeper understanding of concepts.			
PO 8 : Ethics			
PO 8	1.10	1.79	The Target value of attainment is reached.
Action 1: No Action taken.			
PO 9 : Individual and Team Work			

PO 9	1.32	2.01	The Target Level is attained. Though the target value is re Electric Drives C408 - Smart Electric Grid
Action 1: For Course C403: Delivered engaging lectures that incorporate multimedia presentations, demonstrations, and real-life examples to make the subject matter more accessible and interesting. Action 2: For Course C408: Organized industry vis			
PO 10 : Communication			
PO 10	1.28	1.97	The Target Level is attained. Though the target value is re Electrical Distribution Systems C408 - Smart Electric Grid
Action 1: For Course C405: Organized industry visits to facilitate practical learning experiences and industry networking. Action 2: For Course C408: Delivered engaging lectures that incorporate multimedia presentations, demonstrations to make the s			
PO 11 : Project Management and Finance			
PO 11	1.17	1.81	The Target Level is attained. Though the target value is re System Protection C319 - Power Electronics
Action 1: For Course C319: Modern pedagogy tools in both theory and laboratory courses assist students in designing and developing solutions to various problems. Action 2: For Course C401: Organized industry visits to facilitate practical learning ex			
PO 12 : Life-long Learning			
PO 12	1.21	1.88	The Target Level is attained. Though the target value is re Electronics C403 - Electric Drives
Action 1: For Course C319: Modern pedagogy tools in both theory and laboratory courses assist students in designing and developing solutions to various problems. Action 2: For Course C403: Deliver engaging lectures that incorporate multimedia pr and interesting.			

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Graduates will be able to analyze, develop and demonstrate Projects, both Software and Hardware in relevant topics of Electrical and Electronics Engineering			
PSO 1	1.24	1.93	The Target Level is attained.
Action 1: Students are motivated to focus on their Mini and Major projects within the Electrical and Electronics domain. Action 2: Students are encouraged to participate in national level competitions like Smart India Hackathon, Ideathon etc., that motiv			
PSO 2 : Graduates will be able to identify and solve problems in different core areas of Electrical and Electronics Engineering to meet the industry requirements along with overall personality and skills development.			
PSO 2	1.14	1.81	The Target Level is attained.
Action 1: Students are exposed to the application of multidisciplinary skills within the Electrical and Electronics domain. Action 2: Students are encouraged to register for self-learning courses in SWAYAM-NPTEL, Coursera, Edx etc.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

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. Developed in alignment with the Criteria established by Statuary bodies such as the NBA, NAAC and UGC/AICTE for Autonomous Institu related to Academics.
- The Program Level Academic Audit Document provides an overview of the commitment to delivering high-quality Academic Programs. This 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

Fig. 7.2.1 shows the process flow for the Internal and External Academic Audits conducted.

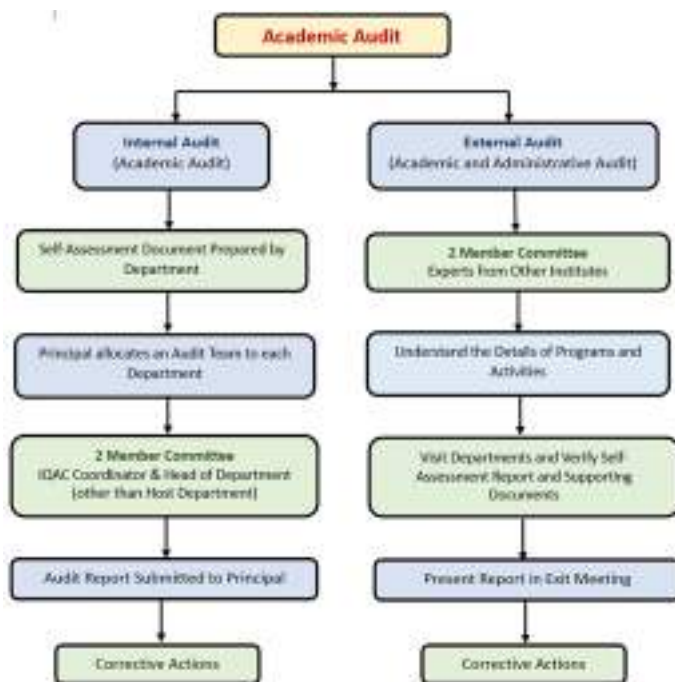


Fig. 7.2.1. Process Flow for Internal and External Academic Audits**ii) Internal Academic Audit**

- 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 bc 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 according to Table 7.2.1 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.

Figure 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 Figure 7.2.3.

	G. Narayana Institute of Technology & Science (For Women)	SR/CE/09	
	Circular	DEPARTMENT : PRINCIPAL'S OFFICE	
	Copy to: The HODs- for necessary action	Date: 24-07-2023	

All the Heads of the Departments are hereby informed that an Internal Academic Audit will be conducted from 01-08-2023 to 05-08-2023. The Heads of Departments (HODs) are instructed to present the respective criterion data for the academic year 2022-23 in accordance with the specified format to the Internal Audit members, accompanied by Dr. K. Rama Linga Reddy, Dean Academics & IQAC Coordinator. The members will visit the department laboratories for physical verification.

S.No	Name of the Internal Auditor	Designation	Visiting Department	Date
1	Dr. J. Rao Prakash Reddy	Dean Placements & Corporate Relations	CSE	01-08-2023
2	Dr. M. Seetha	Dean Research & Development	IT	02-08-2023
3	Dr. Raj Kumar L. Bhandar	Professor & HOD ETE	ECE	03-08-2023
4	Dr. K. Rajini	Professor & HOD ECE	EEE	04-08-2023
5	Dr. B. Venkateshala	Dean Alumni Relations & Higher Education	ETE	05-08-2023


 PRINCIPAL

Enclosures: Internal Audit Format

Fig. 7.2.2. Internal Audit Circular



G. P. Sankaranarayanan Institute of Technology & Science (for Women)
 Autonomous
 Approved by AICTE, New Delhi & Affiliated to JNTU Hyderabad,
 Accredited by NBA & NAAC
 Shakhpur, Hyderabad - 500094
 Academic Year: 2022-2023



Department of Electrical and Electronics Engineering

Collective		Sub-Criteria		Marks/ Percentage/ Yes/No/In marks		
S.No.	Description	Criteria No.	Description			
0	Curriculum Teaching-Learning Process and Evaluation	1.1 Curriculum	1.1.1 Percentage of Changes made in course content of B. Tech Curriculum	15.00%		
			1.1.2 No. of New courses introduced in B. Tech curriculum	228		
			1.1.3 Percentage of Changes made in course content of M. Tech Curriculum	326		
			1.1.4 No. of New courses introduced in M. Tech curriculum	51		
		1.2 Teaching-Learning Process	1.2.1 Pedagogical Methodologies	103		
			1.2.2 Percentage of ICT utilization in B. Tech	103		
			1.2.3 Percentage of ICT utilization in M. Tech	103		
			1.2.4 Mechanism to identify weak & bright students	103		
			1.2.5 Effectiveness of remedial classes	103		
			1.2.6 Availability of soft learning Resources	103		
			1.3	No. of Workshops/ Training Programs arranged for students	5	
		1.4	No. of Soft Skills courses/ extra added courses offered	2		
		1.5	No. of Soft Skills courses/ extra added courses offered	1		
		1.6	Curriculum delivery by industry experts	2		
		2	Program outcomes/ Learning Outcomes	2.1	Attainment of Program Outcomes (%age of POs achieved target level) (2019-2022 Data)	850
				2.2	Attainment of Program Outcomes (%age of POs achieved target level) (2019-2022 Data)	2208
2.3 Constructive Measures	2.3.1			Other Aspects provided to students towards attainment of POs/PSOs	504	
	2.3.2			Changes brought in assessment tools and mode of program outcomes	103	
3	Student Satisfaction and Stakeholder quality	3.1 Feedback	3.1.1 Satisfaction Index (B. Tech)	322		
			3.1.2 Percentage of B. Tech Enrollment	656		
			3.1.3 Satisfaction Index (M. Tech)	38		
			3.1.4 Percentage of M. Tech Enrollment	426		
4	Student Academic Performance - Placement, Higher	4.1 Academic Performance	4.1.1 First percentage in B. Tech (2019-2022 Data)	588		
			4.1.2 First percentage in M. Tech (2021-2022 Data)	440		
		4.2 Higher Studies	4.2	No. of Students opted Higher Studies	5	

Student Participation in Co-Curricular & Extra Curricular Activities	4.1 Student Placements	4.1.a	Percentage of B Tech Students placed (With Single offers)	77%
		4.1.b	Percentage of B Tech Students placed (With Single offers)	20%
	4.2 Student Participations	4.2.a	No. of Student Participations in Co-Curricular & Extra Curricular activities	855
Student Mentoring and Support Systems	8.1 Student Mentoring	8.1.a	Mentor-Mentee Ratio	25:14
		8.1.b	Mentoring Sessions	120/semester
		8.1.c	Personality Development / Motivation programs conducted	93
		8.1.d	Review of Mentor Records	95
		8.1.e	Specific issues handled	95
Faculty Information and Qualifications	6.1 Faculty Cadre and Qualification	6.1.a	No. of Teaching Faculty	30
		6.1.b	No. of Non-Teaching Faculty	8
		6.1.c	No. of Faculty with Ph.D.	5
		6.1.d	No. of Faculty Pursuing Ph.D.	27
		6.1.e	Average Faculty Experience	220%
	6.2 Student Faculty Ratio	6.2.a	SFR	15:17
	6.3 Faculty Publications	6.3.a	No. of Journals Published	14
		6.3.b	No. of Books/Book Chapters/Conferences Published/Presented	34
	6.4 Faculty Contributions	6.4.a	No. of Invited Papers	1
		6.4.b	No. of Consultancy Projects	1
	6.5 Faculty Participation in Certifications	6.5.a	No. of Patents Published/Granted	0
		6.5.b	No. of Faculty attended workshop	19
		6.5.c	Percentage of Faculty completed certification courses	31.40%
		6.5.d	No. of Workshops/ Training Programs Conducted for Staff	1
		6.5.e	No. of Faculty Guiding Ph.D. Scholars	1
6.6 Faculty Productivity	6.6.a	No. of Faculty with Professional Bodies Membership / Fellowships	16	
	6.6.b	Percentage of Faculty on external boards and in organization committees	25%	
	7.1.a	Total Budget Submitted	50,51,400	
T Governance	7.1.b	Total Amount Utilised	54,74,189	

Internal Auditors:

- Dr.R.Rama Sagar Reddy
- Dr.R.Rajani

Signatures:

K. R. S. Reddy
K. Rajani

[Signature]
HOD-ICE

G.Parsipattanam Institute of Technology & Science (for Women)
Autonomous
Approved by AICTE, New Delhi & Affiliated to JNTU Hyderabad,
Accredited by NBA & NAAC
Shadapat, Hyderabad - 500104
Academic Year: 2021-2023

1001

Internal Audit Report

Date: 04.05.2023

Name of the Department - Electrical and Electronics Engineering

Internal Audit Members:

- Dr.K.Hema Latha Reddy, Dean Academics & IQAC Coordinator
- Dr.K.Rajini, Professor & HOD ECE

Observation

- More than 50% of the faculty are pursuing Ph.D.
- Satisfactory number of publications in Journals, Conferences and Books
- Achievement of COs and POs is 97%
- Changes have been brought in assessment tools and rubric of program outcomes
- No consultancy Program
- Budget utilized exceeded Budget sanctioned
- Some part of the maintenance has been delivered by Industry experts

Suggestion

- No. of Value added Courses must be increased.
- Department must organize more Training Programs and Workshops for students
- Department must encourage Faculty to apply for more Patents.
- Students need to improve academics
- Advanced topics must be introduced in the curriculum
- New courses belonging to Thrust Areas must be added to the curriculum
- Incentive to increase more consultancy work

Signature of Internal Audit Members

- K. R. D. Reddy
- K. Rajini


Principal

Fig. 7.2.3 Self-Assessment Format for Internal Academic Audit of each Program

iii) 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. Figure 7.2.4. shows the circular issued by the Principal to all the Heads of the Departments informing them of the date of AAA : Key Indicators of Assessment as given in the Figure 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) will discuss the findings of the audit.
- The Institute plans to implement the suggestions and recommendations proposed by the External Audit Team.

	G. Narayanaiah Institute of Technology & Science (For Women)	MR/CB/19
	Circular	DEPARTMENT: PRINCIPAL'S OFFICE
	Copy to: The HODs- for necessary action	Date: 01-09-2023

All the Heads of the Departments are hereby informed that an external Academic and Administrative Audit will be conducted on 08-09-2023. Two external experts will be visiting the college to verify the data. The Heads of Departments (HODs) are instructed to present the respective criterion data for the academic year 2022-23 in accordance with the specified format to the External Audit members. The members will visit the department laboratories for physical verification.


PRINCIPAL

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 Curricular Enrichment	40
	1.4 Feedback System	30
	Total	150
2. Teaching Learning and Evaluation	2.1 Student Enrolment and Profile	20
	2.2 Catering to Student Diversity	30
	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 Extension	3.1 Promotion of Research and Facilities	20
	3.2 Resource Mobilization for Research	10
	3.3 Innovation Ecosystem	10
	3.4 Research Publications and Awards	30
	3.5 Consultancy	10
	3.6 Extension Activities	50
	3.7 Collaboration	20
	Total	150
4. Infrastructure and Learning Resources	4.1 Physical Facilities	30
	4.2 Library as a Learning Resource	20
	4.3 IT Infrastructure	30
	4.4 Maintenance of Campus Infrastructure	20
	Total	100
5. Student Support and Progression	5.1 Student Support	30
	5.2 Student Progression	30
	5.3 Student Participation and Activities	30
	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	30
	6.4 Financial Management and Resource Mobilization	20
	6.5 Internal Quality Assurance System	30
	Total	100
7. Institutional Values and Best Practices	7.1 Institutional Values and Social Responsibilities	50
	7.2 Best Practices	30
	7.3 Institutional Distinctiveness	20
	Total	100
TOTAL SCORE		1000

Fig. 7.2.5. The Key Indicators of Assessment for the External AAA

The following documents are made available during department Academic Audit.

- o Time Tables
- o Attendance Registers
- o Teacher Qualification, Designation and Experience
- o Mentor Mentee Ratio
- o Review of Mentor Records
- o Mechanism to identify weak & bright students
- o Syllabus Coverage as per the Course Plan
- o Course Files
- o Student Participation in Co-Curricular & Extra Curricular activities
- o Personality development / Motivation programs conducted
- o Evaluation of Internal Marks
- o Attendance of Remedial classes
- o Result Analysis
- o Monitoring the Evaluation Process of Mini Projects

- Monitoring the Evaluation Process of Major Projects
- Students Counselling Records
- Patents
- Research grants
- Consultancy
- Publications
- Books/Book Chapters/Conferences Published/Presented
- Percentage of Faculty completed certification courses
- Faculty attended workshop
- Awards received by Faculty
- Faculty guiding Ph.D scholars
- Higher Studies
- No. of Workshops/ Training Programs Conducted for Staff
- Placement Activities
- Total Budget Sanctioned & Utilised

Figure 7.2.6 shows Counselling Record Sample copy, Figure 7.2.7 Course File Verification Report, Figure 7.2.8 Bright and Weak Students' Report, Figure 7.2.9 Lesson Plan Sample

Table 7.2.1 shows the Actions Taken and Implementations for Continuous Improvement

Student's Academic Record

Semester - VI Academic Year - 2022-2023 Class Teacher: Total Credits: 12

S. No.	Name of the Subjects / Labs	Internal Assessment			Grade Point Obtained
		III	IV	Continual (V)	
1	Python: Syntax, Data Types	30	30	30	9
2	Python: Syntax, Programs	30	21	25	9
3	Python: Lists, Tuples, Dictionaries	24	24	25	9
4	Python: Strings, Sets, Files (I, II)	24	24	25	9
5	Python: Programming	24	24	24	8
6	Python: Syntax Lab				9
7					
8					
9					
10					
GPA				8.64	

CGPA: $(8 + 8.57 + 8.34 + 8.39 + 8.00 + 8.01) \times 6$
 of 12 Semesters = 8.64

Attendance Status					
Month	Practical	08-22	09-22	10-22	11-22
Attendance	100	92.19	88.49	93.33	98.14

Counselor's Remarks			
S. No.	Date of Counseling	Student's opinion / Views with Signature and date	Counselor's guidance / Remarks with Signature and date
1	30/10/22	Went to improve presentation Royal s/10/22	Counselor of guided
2	27/10/22	I am satisfied with my Royal s/27/10/22	Counselor of guided

Student's Profile (Participation / Participation in extra & co-curricular activities / Involvement in Health Services)

S. No.	Activity / Achievement
1	achieved a certificate from edgpt for completing Python programming.

Name of the Counselor: Mrs. J. Rajamka
 Designation: Asst. Professor

Signature of the Counselor:

Figure 7.2.6 Counseling Record sample

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

DEPARTMENT OF EEE

COURSE FILE CHECKLIST

Course Name: Electric Circuit Analysis Class, Semester & Section: II - I EEE-B
Faculty in charge: K. R. R. Leale Academic Year: 2023 - 24
Course coordinator:

S.No	Course Contents	Verified	Remarks
1	Syllabus	/	
2	Course Objectives, Course Outcomes	/	
3	Program Outcomes	/	
4	Program Specific Outcomes	/	
5	Unit wise mapping w.r.t to CO's, CD's, PO's and PSO's Mapping	/	
6	Lesson plan	/	
7	Previous Year University Question papers, internal question papers.	/	
8	Time Tables(individual)	/	
9	Assignment Questions(Question from journal must be there)	/	
10	PPT's	/	
11	Unit wise Lecture Notes	/	correct with unit
12	Content Beyond syllabus (Material gathered from website Bibliography gathered from reputed journals)	/	
13	Case Studies(If Applicable)	/	
14	Enhancements made if any	/	

The overall remarks suggested to the faculty:

K. R. R. Leale

verified
K. R. R. Leale
20/10/23

Figure 7.2.7 Course File Verification Report

GNITS	GNITS-D / EEE / EHV
Encouragement for Bright & Weak Students	Department: EEE

COUNSELING REPORT OF BRIGHT STUDENTS

Batch: 2020 - 24 Subject: Electrical Distribution Systems Date: 07-09-23
 AY: 23 - 24 Year, Section: IV-B

The following students of B. Tech EEE IV/B Sec - B have scored above 25 marks out of 30 marks in MID 1. They have been identified as bright students and counseling sessions are conducted for them individually addressing them to improve knowledge in the subject so that they can participate in Idea Pitching, Hackathon, Registering NPTEL courses or any event participation.

S. No.	Roll No.	Marks	Idea Pitching/ Hackathons/ Membership Drive/ Event Participation	NPTEL Course Completion Certificate	Student Signature
1.	20251A0248	28	Participated in Idea pitching in form of presentation - topic participated in nitrogen hackathon	-	[Signature]
2.	20251A0252	28	Participated in IoT raspberry pi workshop	-	[Signature]
3.	20251A0253	28	Participated in Ignium 2.0 poster presentation	-	[Signature]
4.	20251A0258	26	Completed python 3.11.2 course in intsig spring board online electric vehicle workshop by skulpter	-	[Signature]
5.	20251A0260	26	Idea pitching, coordinator for IEEE	-	R. Srinivas
6.	20251A0261	26	Idea pitching, MVN organization, IoT workshop	-	[Signature]
7.	20251A0272	28	-	-	-
8.	20251A0273	28	Idea pitching	-	[Signature]
9.	20251A0274	27	IEEE - membership, conducted many IEEE events	-	[Signature]
10.	20251A0276	29	-	-	-
11.	20251A0277	27	Supraja Technologies cyber security hackathon'23	-	[Signature]
12.	20251A0279	29	Supraja Technologies cyber security hackathon'23	-	[Signature]
13.	20251A0280	28	-	-	-
14.	20251A0281	28	Web development, Data science, network development, 101 course	-	[Signature]
15.	20251A0282	28	Certificate of participation in digital skills certification program	-	[Signature]
16.	20251A0284	27	Participated in 1 day deep learning workshop & IoT workshop	-	[Signature]
17.	20251A0286	28	Idea pitching, Robotics training in seminar conducted by Ignium	-	[Signature]
18.	20251A0288	27	Participated in hackathon conducted by Ignium	-	[Signature]
			Participated in hackathon conducted by Ignium	-	[Signature]

19.	20251A0290	30	2.0 Attended a Value added Course on Electric Vehicle Technology	-	[Signature]
20.	20251A0291	28	2.0 Secured first position in Paper presentation conducted by Ignium	-	[Signature]
21.	20251A0292	26	2.0 Secured 1st prize in Paper presentation conducted by Ignium	-	[Signature]
22.	20251A0293	26	2.0 Attended Electrical vehicle workshop as coordinator for IEEE	-	[Signature]
23.	21255A0216	26	Participated in hackathon conducted by Ignium	-	[Signature]
24.	21255A0218	26	Python basics - Intsig spring board course AI tool workshop	-	[Signature]
25.	21255A0225	27	Python basics - Intsig spring board course AI tool workshop	-	[Signature]
26.	21255A0226	28	python tutorial for beginners - certificate of completion	-	[Signature]
27.	21255A0227	26	python tutorial for beginners - certificate of completion	-	[Signature]

[Signature]
 Signature of the Faculty
 Date:

GNITS	GNITS-D / EEE / ERW
Encouragement for Bright & Weak Students	Department: EEE

COUNSELING REPORT OF WEAK STUDENTS

Batch: 2020 - 24

Subject: Electrical Distribution Systems

Date: 05-10-23

AY: 23 - 24

Year, Section: IV EEE-D

The following students of B. Tech EEE IV/IV Sec - B have scored less than 15 out of 30 marks in MID I. They have been identified as weak students and counseling session is conducted for them individually addressing their difficulty in understanding the subject. The reasons for less marks and suggestions by faculty are summarized below.

S. No	Roll No.	Marks	Reason(s) for less marks in Mid Exam	Suggestions by the faculty for improvement	Student Signature
1.	2025/A0251	19	I was not feeling well	Requesting to take proper medication & consult to physician.	<i>[Signature]</i>
2.	2025/A0282	22	I was out of station due to emergency	Requesting to take proper medication & consult to physician.	<i>[Signature]</i>
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					

Signature of the Faculty: *[Signature]*
Date:

[Signature]
Head of the Department

GNTS	GNTS-D / EEE / ERW / 19, II / 00
Encouragement for Bright & Weak Students	Department: EEE

PERFORMANCE IMPROVEMENT IN MID - II

Semester: 2020-24

Subject: Electrical Distribution Systems

Date: 16-12-23

AY: 23 - 24

Year, Section: IV/IV B

The following students of B. Tech ECE III/IV Sec - A have shown improvement in MID - II after counseling.

S. No.	Roll No.	MID - I Marks	MID - II Marks
1	20211A0251	19	21
2	20211A0249	22	24
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

Signature of the Faculty

Date:



Head of the Department

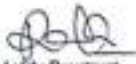


Figure 7.2.8 Bright and Weak Students Report

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women) (AUTONOMOUS) Shalipat, Hyderabad, Telangana			
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING			
Program Name:	B Tech (EICE)	AY:	2023-24
Course Name, Code:	POWER ELECTRONICS PE11908H	Class / Sem:	EE5VB Tech, II Sem
Faculty Name:	Dr G. Annapurna	Instruction Period:	02/01/2024 - 23/05/2024
Lecture No.	Topic	Book / Web Reference	Teaching Method(s)
<i>UNIT- I : Power Semiconductor Devices</i>			
1	Introduction to Power Electronics with Objectives and Concepts of Power Electronics, scope and applications.	C&T, SP	T1,T2,W3,W4
2	Types of power converters	C&T	T1,T2,W3,W4
3	Power semiconductor switches and their V-I characteristics	C&T	T1,T2,W3,W4
4	Power Diodes	C&T	T1,T2,W3,W4
5	SCR, TRIAC	C&T	T1,T2,W3,W4
6	Power BJT, MOSFET, IGBT	C&T, SP	T1,T2,W3,W4
7	Thyristor ratings and protection	C&T	T1,T2
8	Methods of SCR commutation	C&T	T1,T2
9	Methods of SCR commutation	C&T	T1,T2
10	Triggering circuits for SCR	C&T	T1,T2
11	Problems	C&T	T1,T2
<i>UNIT- II : Phase Controlled Rectifier</i>			
12	Principle of Phase Controlled Rectifiers	C&T	T1,T2
13	1- Φ Fully-controlled converter with R, RL&RLE loads	C&T	T1,T2
14	1- Φ Fully-controlled converter with R, RL&RLE loads	C&T	T1,T2
15	1- Φ Half controlled converter with RL&RLE loads	C&T	T1,T2
16	1- Φ Half controlled converter with RL&RLE loads	C&T	T1,T2

17	Problems	C&T	T1,T2
18	Three-phase fully controlled converter	C&T	T1,T2
19	Three-phase fully controlled converter	C&T	T1,T2
20	Effect of source inductance	C&T	T1,T2
21	Single phase dual converters	C&T	T1,T2
22	Three phase dual converters	C&T	T1,T2
23	Problems	C&T	T1,T2
24	Problems	C&T	T1,T2
UNIT - III : DC - DC Converters			
25	Basic principle of DC-DC converter	C&T, SP	T1,T2
26	Step-down converter with R&R.L loads	C&T	T1,T2
27	Step-up converter with R&R.L loads	C&T	T1,T2
28	Maximum and minimum currents, ripple current	C&T	T1,T2
29	Converters classification, Switching mode regulators	C&T	T1,T2
30	Class A, Class B choppers	C&T	T1,T2
31	Class C, Class D, Class E choppers	C&T	T1,T2
32	Switch mode Regulators: Buck, and Boost regulators	C&T	T1,WB3
33	Buck-Boost regulators	C&T	T1,WB3
34	Isolated DC-DC converters, Flyback Converters	C&T	T1,WB1
35	Forward Converters	C&T	T1,WB2
36	Problems	C&T	T1,T2


UNIT- IV : Inverters			
37	Principle of operation of Inverters, Performance parameters	CAT	T1,T2
38	Single phase half bridge inverters with R, RL load	CAT	T1,T2
39	Single phase full bridge inverters with R, RL load	CAT	T1,T2
40	3-phase bridge inverters - 180 degree mode of operation	CAT	T1,T2
41	120 degree mode of operation	CAT	T1,T2
42	Voltage control of single phase inverters	CAT	T1,T2
43	Voltage control of single phase inverters	CAT	T1,T2
44	Single & multiple pulse modulation	CAT	T1,T2
45	Sinusoidal Pulse Width Modulation	CAT	T1,T2
46	Problems	CAT	T1,T2
47	Problems	CAT	T1,T2
UNIT- IV: A.C. Voltage Controller			
48	Introduction & Principle of operation AC voltage controller	CAT	T1,T2
49	1- Φ AC voltage controllers for R, RL loads using TRIAC	CAT	T1,T2
50	1- Φ voltage controllers for R & RL loads using SCR	CAT	T1,T2
51	Applications & Problems	CAT	T1,T2
52	Three phase AC voltage controllers	CAT	T1,T2
53	Basic principle of operation of Cyclo converters	CAT	T1,T2
54	Cyclo converters with R&RL Loads	CAT	T1,T2
55	Problems	CAT	T1,T2
56	Additional topic: Application of Power Electronic convertes for Hybrid Electric Vehicles , Revision of Previous Year QP	CAT, SP	T1,T2,WB

CRT-Chart & Talk, SP-Slides/PPT,V – Videos, SEM- Seminar,D – Demo, CHART, ET/GL- Expert Talk/Guest Lecture,Q – QUIZ, CPS- Classroom Problem Solving, GD-Group Discussion, RTCS-Real Time Case Studies, JAR-Journal Article Review, PD-Poster Design, OL-Online Lectures/Google Classroom,IV –Industrial Visit, ASG –Assignments, Q –Quiz/Puzzle, BS –Brain Storming, TPS – Think/Pair/Share, CERT –Certification, SIM- Simulation, P/G- Pledge/Greeting, Q/R – Quotes/ References, LS-Literature Survey, RW-Report Writing, MM-Model Making, FED-Professional/ Ethical Dilemma, Coding, Activity/Event,IV- Field Visit etc.

TEXT BOOKS: 1.M.H.Rashid, Power Electronics – Circuits, Devices and Applications.
2. P.S. Bimbhra , Power Electronics

REFERENCE BOOKS: 1. Mohan, Undeland, Robbins – Power Electronics- Converters, Applications and Design .
2. P.C. Sen – Power Electronics
3. L. Umanand – Power Electronics

ONLINE RESOURCES:
1. [https://nptel.ac.in/content/storage2/courses/108105066/PDF1_22\(OP\)\(PE\)\(%20\)\(EE\)\(NPTEL\).pdf](https://nptel.ac.in/content/storage2/courses/108105066/PDF1_22(OP)(PE)(%20)(EE)(NPTEL).pdf)
2. [https://nptel.ac.in/content/storage2/courses/108105066/PDF1_23\(OP\)\(PE\)\(%20\)\(EE\)\(NPTEL\).pdf](https://nptel.ac.in/content/storage2/courses/108105066/PDF1_23(OP)(PE)(%20)(EE)(NPTEL).pdf)
3. [https://nptel.ac.in/content/storage2/courses/108105066/PDF1_24\(DK&SSG\)\(PE\)\(%20\)\(EE\)\(NPTEL\).pdf](https://nptel.ac.in/content/storage2/courses/108105066/PDF1_24(DK&SSG)(PE)(%20)(EE)(NPTEL).pdf)
4. <https://nptel.ac.in/content/storage2/courses/108103005/download/54.pdf>
5. <https://www.coursera.org/learn/power-electronics>
6. https://cpgp.inflibnet.ac.in/cpgpdata/uploads/cpgp_content/5090574EE/P001539/8017171/ET/1470202029y9m11_etest.pdf


(Dr G. Annapurna)
Professor-EEE



(Dr P. Rama Krishna Reddy)
Professor & HOD - EEE

Figure 7.2.9 Lesson Plan Sample

Table 7.2.1 Actions Taken and Implementations for Continuous Improvement

Category	Gap Analysis	Actions Taken	Implementation for Continuous Improvement
Student Participation in Co-Curricular activities	Students Achievements is less	More Co-curricular events such as Guest lectures, Industrial Visits, workshops, Value added courses were organized and encouraged students for paper publications	A greater number of students engaged in co-curricular events, leading to the enhancement of their co-curricular skills, which was subsequently evident in the placement records.
Faculty Books/Book Chapters/Conferences Published/Presented	There are only a few publications limited to books/Book Chapters	Faculty were encouraged to publish the papers in book chapters and Textbooks.	Faculty published their papers in books
Research Projects & Consultancy	More Research Projects need to be done	Funding related Seminar and workshops were organized	Faculty submitted proposals to various funding agencies

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Table 7.3.1 Placement, Higher Studies and Entrepreneur Student count

Year	Number of Students on Roll	Number of Students Eligible	Number of Students placed	Higher Studies	Entrepreneur s (cumulative till Date)
CAY m1 (2022-23)	127	124	98	5*	8
CAY m2 (2021-22)	130	111	93	11	7
CAY m3 (2020-21)	139	109	83	15	4

*From 2022-23 batch few students are awaiting for admission.

A. Improvement in Placements (5)

The placement record for EEE students has shown steady growth, with the department actively organizing training activities to ensure students secure placements in top national and international companies. In the Academic year 2020-21 Service now offered the highest salary total of 15 students were placed in core industry. Over the years, there has been consistent improvement in the number of job offers and average salary packages. Renowned companies like ServiceNow, Accenture, JPMC, Deloitte, Cognizant, Carrier Corporation, Wipro, Bosch the hiring process. Table 7.3.1 indicates students placement and higher studies and Entrepreneur details in the last three assessment years. The batch-wise job placement growth of our students is demonstrated in Figure 7.3.1.

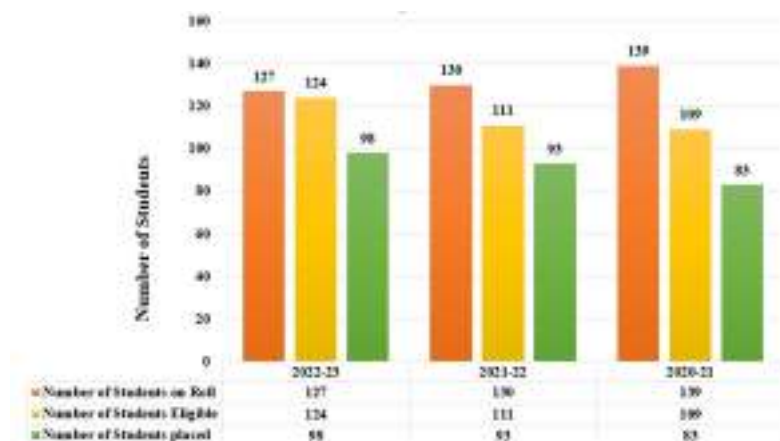


Figure 7.3.1 Placement comparison chart

Table 7.3.2, Table 7.3.3 and Table 7.3.4 indicates Highest Package Placements details for the last three assessment years.

Table 7.3.2 Highest Package Placements for A.Y.2022-23

Name of the company	Highest Package Placements for A.Y.2022-23	
	Salary (in Rs. LPA)	Number of offers
Carrier Corporation	15L	2
Micron	10L	2
State Street	8.6L	3

Deloitte	7.6L	20
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Table 7.3.3 Highest Package Placements for A.Y.2020-21

Name of the company	Highest Package Placements for A.Y.2021-22	
	Salary (in Rs. LPA)	Number of offers
AT&T	12L	1
JPMC	12L	1
STATESTREET	11L	2
OPTUM	7.78L	7

Table 7.3.4 Highest Package Placements for A.Y.2020-21

Name of the company	Highest Package Placements for A.Y.2020-21	
	Salary (in Rs. LPA)	Number of offers
Service now	21 L	1
Deloitte	7.6 L	8
BOA	6 L	2

Table 7.3.5 indicates Average CTC details for the last three assessment years. Figure 7.3.2 shows batch wise Average CTC chart

Table 7.3.5 Average CTC in Rs. Lakhs

Year	Average CTC in Rs. Lakhs
2022-23	6
2021-22	5.7
2020-21	4.6



Figure 7.3.2 Average CTC chart

Figure 7.3.3 and Figure 7.3.5 shows our recruiters and distribution of Students by income bracket for three assessment years.



Figure 7.3.3 Our recruiters



Figure 7.3.4 Students of 2023 Batch Placed in OPTUM and CARRIER CORPORATION



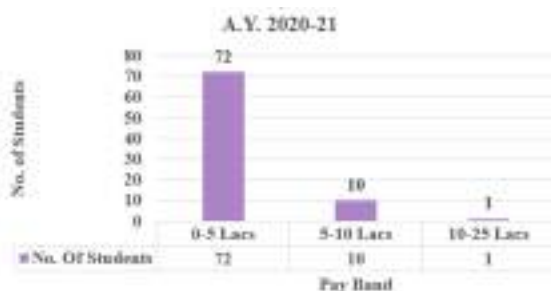


Figure 7.3.5 Distribution of Students by Income Bracket for three assessment years

B. Performance in GATE, GRE, GMAT, CAT etc., and admissions in Premier institutions : (3M)

The GradRight Program offers a platform for third and final year GNITS students interested in pursuing Masters degrees abroad. It provides an opportunity for them to explore options for studying overseas. GradRight is an EdF in Tech start-up based in Hyderabad that offers programs abroad. Table 7.3.6 shows the summary of student performance in GATE, GRE, GMAT, CAT. Table 7.3.7 (a) (b), Table 7.3.8 (a) (b) and Table 7.3.9 (a) (b) indicates Performance in GATE, GRE, GMAT, CAT etc., and list of students admitted into higher stuc

Table 7.3.6 Summary of student performance in GATE/GRE/TOEFL/IELTS

S.No	Academic Year	Students attempted GATE, CAT, GRE, IELTS, TOFEL etc;
1	CAYm1 (2022-23)	15
2	CAYm2 (2021-22)	18
3	CAYm3 (2020-21)	37

Table 7.3.7 (a) List of students with GATE/GRE/TOEFL/IELTS/score cards for A.Y. 2022-23

S.No	Hall ticket No.	Name of the student	GRE/TOEFL/IE LTS/ GATE/other	Score/ Rank	Registration number
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1	19251A026 2	Bhavana Adicherla	GRE	141,154,3	1475039
2	19251A025 2	Shaik Fareeda	TS ICET	1394	5312586226
3	19251A022 6	Sahithi Grandsila	GRE	160,163,3	1948377
4	19251A023 2	Manaswini Kyama	GRE	159,170,3	1449906
5	19251A023 2	Manaswini Kyama	DET/Other	135,140,150,125, 105	8b9bec536b165f829a263cd27 4821895
6	19251A023 5	Konakalla, Devayani Chakravarthi	DET/Other	115,120,120,95,9 0	07ff80ab962957f992260033 0b97dke8
7	20255A021 1	Guppa Gayathri	IELTS	6.5	013380
8	19251A021 4	Bhore Neha	TS ICET	28267	5312755767
9	19251A023 3	Varsha Kandimalla	GRE	141,157,3	1024236
10	19251A021 8	Chitmilla Supraja	IELTS	7	517657
11	19251A024 5	Chinmayee Nimmala	GRE	167,167,3	0555837
12	19251A025 1	Shaik Ashfiya	IELTS	7	359389
13	19251A022 3	Desham Rishitha	IELTS	6.5	519229
14	19251A024 4	Neelampalli Thanmai	IELTS	8	54585
15	19251A022 0	Dobbali Tejaswini	DET	115,120,120,100, 90	-----

Table 7.3.7 (b) List of students admitted into Higher Studies A.Y. 2022-23

S.No	Reg.No	Name	Degree	Institution Joined
1	19251A0234	K. Aalaya	MS	Texas Tech University, Texas
2	19251A0284	M. Snigdha Reddy	MBA	University of London
3	19251A0258	Vedalsaya Sai S .	MS	The university of Sydney
4	19251A0272	Vybhavi.G	MS	New Jersey Institute of Technology

5	19251A0262	ABhavana	MS	California State University, CA,USA
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Table 7.3.8 (a) List of students with GATE/GRE/TOEFL/IELTS/score cards for A.Y. 2021-22

S.NO	Hall ticket No.	Name of the Student	GRE/TOEFL/IELTS/ GATE/other	Score/ Rank	Registration number
1	18251A0210	Gopalapuram Vishwana	IELTS	6.5	51044
2	18251A0231	Jeeshma reddy amkireddy	GRE	149,161,3.5	1289993
3	18251A0289	Sneha reddy Vulchakoti	GRE	160,165,3	1500652
4	18251A0289	V Sneha reddy	IELTS	6	334049
5	18251A0276	K. Srinitya	IELTS	7.5	25827
6	18251A0206	D Vasavi Krishna	TSPGECET	437	9301080721
7	18251A0271	Sreeshma inti	IELTS	7	7058
8	18251A0256	Tedla monica	IELTS	8	70061
9	18251A0256	Tedla monica	GRE	154,166,4	1397652
10	18251A0291	B.Gautami	IELTS	7	55275
11	18251A0221	Naravara Godha	IELTS	6.5	28177
12	18251A0221	Naravara Godha	GRE	152,170,3	9291642
13	18251A0263	Bayya Sai Sandhiptha	Duolingo English test	135	c5bc10455fcc53fba8b6ceee4 21a3e87
14	18251A0267	anjani chippa	GRE	147,168,3	1358420
15	18251A0267	anjani chippa	IELTS	6.5	60167
16	18251A0249	Geeta kalyani Nadella	GRE	156,163,3.5	222910
17	18251A0249	Geeta kalyani Nadella	TOEFL	106	3632803226011861
18	18251A0220	Meghana Nagarala	GRE	162,165,3.5	254491

Table 7.3.8 (b) List of students admitted into Higher Studies A.Y. 2021-22

S.No	Reg.No	Name	Degree	Institution Joined
1	18251A0206	D. Vasavi Krishna	M.Tech	JNTU Hyderabad
2	18251A0270	Sreeshma Inti	MS	University of Michigan, Dearborn, USA

3	18251A0228	Srija Gogineni	MS	Arizona state university
4	18251A0231	A. Jeeshma Reddy	MS	University Missouri
5	18251A0220	Meghana	MS	Florida State University
6	18251A0252	Haritha	MS	University of North Texas
7	18251A0295	Civaripally Sharon Blessy	MS	New York Institute of Technology, new York
8	18251A02B7	Uma Maheswari	MS	University of Central Missouri
9	18251A0233	B.Navya Madhuri	MS	University of Houston
10	18251A0222	P. Nikitha Sree	MS	University of South Albama
11	18251A0273	J. Vyshnavi	ME	BITS, Pilani

Table 7.3.9 (a) List of students with GATE/GRE/TOEFL/IELTS/score cards for A.Y. 2020-21

S.No	Hall ticket No.	Name of the student	GRE/TOEFL/IELT S/ GATE/other	Score/ Rank	Registration number
1	18255A0206	Katuku Srilaxmi	TS-PGECET	69	9301081528
2	17251A02A5	Kurmeti Dathasri	TS-PGECET	28	9302080399
3	17251A0245	Hrithika Reddy Kondakalla	IELTS	7	119406
4	17251A02B8	S Thulasi	GATE	434	EE21S31408646
5	18255A0211	Kamala Laxmi	TS-PGECET	411	903080520
6	17251A02B5	Pravalika .M	GRE	153,166,3	124178
7	17251A0292	Keerthi Azmeera	GRE	153,168,2	9655195
8	17251A0247	Sravani reddy Meda	IELTS	7	22761

9	17251A024 7	Sravani reddy Meda	GRE	150,163,3	9613280
10	17251A023 4	Siri Chandana Annasamudr am	GRE	159,162,4	9449128
11	17251A023 4	Siri Chandana Annasamudr am	IELTS	7	32799
12	17251A02 B4	Ponnoju Nagashirisha	TS-PGECET	58	9405080289
13	17251A024 5	Hrithika Reddy Kondakalla	GRE	142,152,4	9728257
14	17251A022 9	Varsha Singannagari	GRE	140,142,2,5	9593935
15	17251A022 9	Varsha Singannagari	IELTS	6.5	248059
16	17251A02 B6	Pulivendula Preethi Reddy	MAT	64.43,51.34,47.41,68.4 239	504141617
17	17251A02 A1	SreeNidhi Kommineni	GRE	153,70,4	289353
18	17251A02 A1	SreeNidhi Kommineni	TOEFL	94	3983-6102-1505-5023
19	17251A029 8	Itikyala Mouna	GRE	135,159,3,5	127175
20	17251A029 8	Itikyala Mouna	IELTS	6.5	V1343181
21	17251A028 9	Yadala shekinah Sardonyx	IELTS	7	406095
22	18255A021 0	Pala Yamini	IELTS	6.5	619549
23	17251A02 A3	Sitha Manasvi Kota	GRE	157,166,3	475916
24	17251A028 7	Talari Anupama	GRE	152,147,3	1140650
25	17251A028 7	Talari Anupama	IELTS	6.5	10772

26	17251A022 3	Sana	GRE	154,167,3	252275
27	17251A02 B0	Nukala Sirija	IELTS	6.5	387419
28	17251A02 B0	Nukala Sirija	GMAT	720	28910056211
29	17251A026 5	Angadi Ramya Sai	IELTS	7.5	210532
30	17251A021 9	Sura Nikitha	IELTS	6	161624
31	18255A022 3	Amudala Deepika	TSPGECET	474	9401080147
32	17251A026 3	Alishala Jhansi Sanjana	Snap test	28.25	230153284
33	17251A021 3	Madduri V S S R Sri Krishna Manasa	TSPGECET	54	9301080772
34	17251A029 3	Akshaya Badugula	GRE	157,163,3	604108
35	17251A029 3	Akshaya Badugula	IELTS	6.5	2789
36	17251A020 7	Gilakathula, Godha devi	Duolingo English test	125	
37	17251A020 7	Gilakathula, Godha devi	GRE	152,169,1.5	8830098

Table 7.3.9 (b) List of students admitted into Higher Studies A.Y. 2020-21

S.No	Reg.No	Name	Degree	Specialization	Institution Joined
1	17251A02B6	P. Preethi Reddy	MBA	MBA (HR and Finance)	Woxen University Kamkole, Sadasivpet, Hyderabad, Telangana
2	17251A0290	G.Vaishanvi	MS	Business Analytics	University Of North Texas G. Brint Ryan College Of Business
3	17251A02A6	M. Sarwani	MBA	Master of science in information Technology	International Institute Of Information Technology Gachibowli, Hyderabad

4	17251A0292	A.Keerthi Azmeera	MS	Computer science	School, Of Graduate Studies St. Cloudstate University 720 4th Avenue South St. Cloud, Minnesota
5	17251A0265	A.Ramya Sai	MS	Business Statistics	University Of New Haven
6	17251A02B3	Harshitha Polagani	MS	Computers & Information Sciences	New England College
7	17251A0245	K.Hritika Reddy	MS	Information Science	The University Of Texas, Arlington
8	17251A0213	MVSSR Sri Krishna Manasa	M.Tech	Industrial Devices and Controls	Osmania University
9	17251A02B0	Sirija Nukala	MS	Business Analytics	University Of Texas, Dallas
10	17251A0284	Shaik Nafeez Salma	MS	Management Sciences	University Of Connecticut
11	17251A0261	Monalisa Chowdary Manne	MS	Management Sciences	New York Institute Of Technology
12	17251A02A7	Ruchitha Sowdhari	MS	Computer Science	Lamar University
13	17251A0214	M Rachana	MBA	Finance	Kakatiya University
14	17251A0223	Sana	MS	Computer Science	Edinburgh Napier University
15	17251A0202	Boda Haripriya	M.Tech	Electrical Power System	Avanthi Institute of Engineering & Technology

C. Entrepreneurs (2M)

To develop the entrepreneurship skills among the students' training programs, seminars, webinars are organized through Entrepreneurship Development Cell (EDC). Table 7.3.10 indicates list of EDC cell activities. Table 7.3.11 shows the details of Entrepreneurs for three asse:

Table 7.3.10 List of EDC cell activities

S.No	Event Name	Year
1	Women in Business	2022-23
2	YUVA – Young Innovation Challenge	2022-23
3	FORZA	2022-23
4	Startups, Creativity and Innovation	2021-22
5	Idea Pitching Competition and Student Entrepreneurial talk	2021-22
6	“Sambhav”- e-National Level Awareness Programme (e-NLAP) on Entrepreneurship	2021-22
7	Student Start-ups	2021-22

Figure. 7.3.7 & Figure. 7.3.8 shows the Report of webinar conducted by EDC cell. Figure. 7.3.9 shows some of alumnae start-ups by EEE Department students. Figure. 7.3.10 shows Entrepreneur details.



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Entrepreneurship Development Cell (EDC)

Report on "Startups, Creativity and Innovation" - Make your idea to happen

Workshop held on 18-06-2022

Date: 24/06/2022

ED Cell, GNTS organized one-day workshop on "STARTUPS, CREATIVITY and INNOVATION Make Your Idea to Happen" in association with DST Technology Enabling Centre (TECE), ENPRENDA and ASPIRE, University of Hyderabad & Institute's Innovation Council (IC) on 18/06/2022. The main objective of the workshop is to enhance the entrepreneurial culture among the women students. This workshop might help the students in bringing out new ideologies, improve Critical thinking, new start-up ideas, and how to convert your ideas into startups, etc. The response for training program was very good with total number of 303 participants from different departments of B.Tech I, II, III & M.Tech I, II years students of GNTS participated in this workshop. This workshop covered topics ranging from Introduction, Startup stories, Creativity and Innovative Ideas.

A startup or start-up is a company or project undertaken by an entrepreneur to seek, develop, and validate a scalable business model. This event created an opportunity in building engineers who are interested to learn and grow in the aspect of entrepreneurship. Following are the four speakers for this workshop who shared their knowledge and guided our students through five sessions.

1. Prof. G.S. Prasad, Director of the Centre for Research, Innovation, Technology and Entrepreneurship (CRITE), University of Hyderabad.
2. Prof. V.V.SS Srikanth, Professor, School of Engineering Sciences and Technology, University of Hyderabad.
3. Prof. Salman Abdul Hameed, Professor, School of Computer and Information Sciences, University of Hyderabad.
4. Dr. Satha Reddy, Founder and Managing Director of SN Bioscience.

This event helped students to acquire knowledge with much ease in this area of Startups and Entrepreneurship. By attending this workshop, students have improved business knowledge about Startups, various Creative and Innovative Ideas of Entrepreneurship and much more.



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Entrepreneurship Development Cell (EDC)

Students were really happy with the workshop as the speakers' gave various live examples. The feedback received from the participants is considered and received a very good response from maximum participants, by analyzing the feedback response, such event has to be conducted every year to enhance the knowledge of students with respect to Startups and Entrepreneurship as per current trends.



Rajkumar L. Bhat
Dr. Rajkumar L. Bhat
Coordinator, EDC, GNITS

Figure. 7.3.7 Report of Event conducted by EDC cell



Figure. 7.3.8 Report of Event conducted by EDC cell





Figure. 7.3.9 Start-ups by EEE Department students

Table 7.3.11 Entrepreneurship Details

S.N O	Roll No	Student Name	Company Name/ Nature of Entrepreneurship	Photos
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1	18251A024 6	K.Sindhuri	DTDC	
2	18251A023 6	Samyuktha Dudyala	SD Consultancy Pvt. Ltd	
3	16251A022 5	Harshitha Kilarapu	Founder of Label_by_HK & find unique style in western wear & traditional wear dresses	
4	14251A021 1	D Prathima	Managing Director, Sri kanuka durga filling station (HPCL Dealer, palpanoor village, Sangareddy	
5	14251A020 7	Jaswee Banoth	Event Manager, started a MYTHRI PIIX company, Hyderabad related to the photography	
6	09251A025 9	Shruthi Vetukuri	Product Manager, Maya Bazar studio, Hyderabad	

7	09251A027 4	E.Anusha Reddy	Directors, Maya Bazar studio, kadapa	
8	02251A022 2	K.Srujana	Founder of SRU Makes Handmade soaps and bath accessories and gift hampers	

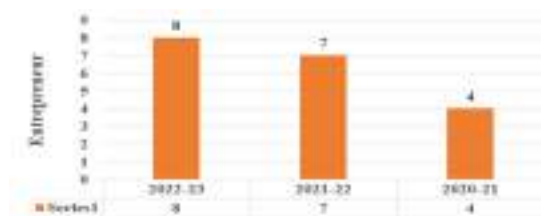


Figure. 7.3.10 List of Entrepreneur's

7.4 Improvement in the quality of students admitted to the program (20)

Item		2023-24	2022-23
National Level Entrance Examination JEE Mains	No of students admitted	17	10
	Opening Score/Rank	216523	114645
	Closing Score/Rank	1028338	705568
State/ University/ Level Entrance Examination/ Others EAMCET	No of students admitted	81	88
	Opening Score/Rank	9971	14118
	Closing Score/Rank	76009	49147
Name of the Entrance Examination for Lateral Entry or lateral entry details ECET	No of students admitted	24	15
	Opening Score/Rank	978	272
	Closing Score/Rank	3561	1948
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		432	421

8 FIRST YEAR ACADEMICS (50)

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

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 Asso / 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
Dr. A. ALAKAN	AKKPA5353N	M.Sc. and PhD	30/06/2014	MATERIAL SCIENCE	Associate Professor	22/01/2001	100	100	100	Yes
Dr. P. SHOBHA	BGGPP0205D	M.Sc. and PhD	03/08/1996	PHYSICAL CHEMISTRY	Assistant Professor	06/06/2016	0	0	100	No
Dr. D. SANJAY	BRYPD9763P	M.Sc. and PhD	01/12/2012	Material Science	Assistant Professor	02/12/2020	0	0	100	No
Dr.G.RajKumar	BSAPG9742E	M.Sc. and PhD	23/10/2012	Nonlinear Optics	Assistant Professor	16/02/2024	100	0	0	Yes
M.V.Ramana R	AFRPV7090M	M.E/M.Tech	01/03/2001	Industrial Engineering	Associate Professor	19/11/1997	100	100	100	Yes
Dr. G.P. Prasad	AENPP0625B	ME/M. Tech and PhD	01/03/2012	Quality Assurance	Professor	01/09/1998	100	100	100	Yes
Dr. S.M.SWAM	BMRPS7766P	ME/M. Tech and PhD	01/09/2017	Thermal Engineering	Associate Professor	01/11/2004	100	100	100	Yes
S.N.Sarveswar	BJEPS5185C	M.E/M.Tech	01/06/2006	Energy Systems	Assistant Professor	18/07/2011	100	100	100	Yes
N. Hiranmai	AGYPH6726Q	M.E/M.Tech	01/09/2015	Thermal Engineering	Assistant Professor	01/09/2015	100	100	100	Yes
M. Yashwanth	AOYPM6960M	M.E/M.Tech	01/06/2015	Production Engineering	Assistant Professor	18/01/2020	100	100	100	Yes
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
K. Naresh	CQPPK2160Q	M.E/M.Tech	01/02/2016	CAD AND CAM	Assistant Professor	04/11/2022	100	0	0	Yes
D. Niharika	CKVPD0033R	M.E/M.Tech	01/01/2019	Advanced IC Engines	Assistant Professor	08/07/2019	100	100	100	Yes
Dr. S. UDAY BI	AXXPS9034L	M.Sc. and PhD	12/05/2016	material science	Associate Professor	01/07/2009	100	100	100	Yes
B. RAKESH G	AWSPB1491L	M.Sc	01/06/2009	INDUSTRIAL CHEMISTRY	Assistant Professor	01/07/2015	100	100	100	Yes
Ch. ARATHI	AJMPC8863C	M.Sc	01/05/2009	Solid State Physics	Assistant Professor	01/06/2016	100	100	100	Yes
Dr. PRAGATHI	AICPJ6816D	M.Sc. and PhD	29/11/2012	INORGANIC CHEMISTRY	Assistant Professor	02/12/2020	100	100	100	Yes

B. MRINALINI	CMDPB4530K	M.Sc	18/06/2018	ORGANIC CHEMISTRY	Assistant Professor	02/12/2020	100	100	100	Yes
Dr. R. NARENI	AHGPR5279M	M.Sc. and PhD	17/04/2004	ORGANIC CHEMISTRY	Assistant Professor	18/04/2022	0	100	100	No
Dr. Y. VEERAS	ACL PY4900G	M.Sc. and PhD	26/10/2018	METAL OXIDE THIN FILMS	Assistant Professor	26/03/2022	100	100	100	Yes
Dr. MEDHA BH	BYRPB7832H	M.Sc. and PhD	07/06/2021	SOLAR ENERGY NANOMATERIAL	Assistant Professor	07/04/2022	100	100	100	Yes
K. SRIDEVI	BNOPK5845H	M.E/M.Tech	01/11/2012	CSE	Assistant Professor	05/07/2013	100	100	100	Yes
CH. SRAVANT	AKKPC8427H	M.E/M.Tech	01/11/2012	CSE	Assistant Professor	25/06/2012	100	100	100	Yes
Dr.P.Aparna	AHXPP2411J	M.A and Ph.D	01/12/1997	Comparative Literature	Professor	08/07/2009	100	100	100	Yes
V. Jahnvi	AIFPJ3354F	MBA	01/02/2009	ELT COMM SKILLS BUSINESS COMM	Assistant Professor	04/12/2001	100	100	100	Yes
Dr. M.Madhavi	ANTPM7723J	M.Sc. and PhD	01/11/2012	Operation Research Inventory Models	Associate Professor	07/06/2001	100	100	100	Yes
Dr.M.Aparna	AJYPA2337D	M.Sc. and PhD	01/11/2006	Complex Analysis	Associate Professor	26/08/2002	100	100	100	Yes
Dr. NVSL. Narasimhan	ADDPN0106A	M.Sc. and PhD	28/04/2009	Mathematical Modelling	Associate Professor	19/09/2005	100	100	100	Yes
Dr.S. Vasundhara	AVRPS6883K	M.Sc. and PhD	10/09/2014	Elliptic Curve Cryptography	Assistant Professor	21/09/2005	100	100	100	Yes
V. Beulah Sanç	AENPV1501N	MA	19/08/1996	English Literature	Assistant Professor	06/10/2006	100	100	100	Yes
Dr. B.Sushma	BDMPS0720B	M.A and Ph.D	27/10/2011	Indian Diasporic Fiction	Associate Professor	05/11/2007	100	100	100	Yes
K. Keshav Kumar	AVGPK3070M	M.E/M.Tech	01/10/2004	Optimization Techniques and Metaheuristic Algorithms	Assistant Professor	18/09/2009	100	100	100	Yes
Anupama Venkatesh	ANGPV0109G	MA	01/09/2005	ELT Soft skills	Assistant Professor	27/05/2017	100	100	100	Yes
B Hima Bala	ALDPB9431C	MA	01/05/2000	English language Teaching Soft skills	Assistant Professor	07/01/2020	100	100	100	Yes
Dr. K. Mrudula	AZNPM6940P	M.Sc. and PhD	01/05/2019	Fuzzy clustering Algorithms in Machine Learning	Assistant Professor	07/12/2020	100	100	100	Yes
Mrs. R. Elizabeth	AQIPR8430R	MA	01/05/1995	English Literature	Assistant Professor	05/05/2021	100	100	100	Yes
Dr. Neeli Ramesh	ALQPN7192K	M.A and Ph.D	25/07/2020	English Language Teaching	Assistant Professor	04/06/2021	100	100	100	Yes
Dr. R. LAKSHMI	ASNPP2680E	M.Sc. and PhD	01/01/2018	Integral Transforms Graph Theory Complex Analysis Machine Learning Data analytic	Assistant Professor	04/04/2022	100	100	0	Yes

Aswani R Jeev	BIJPJ1562Q	MA	01/06/2017	Post colonialism Tribal Literature Gender Studies	Assistant Professor	09/05/2022	100	100	100	Yes
N GAYATHRI	BADPN6196A	M.Sc	01/06/2015	MATHEMATICS	Assistant Professor	31/10/2022	100	100	0	Yes
DONGALA SW	BDKPD2200B	M.Sc	01/04/2006	MATHEMATICS	Assistant Professor	03/11/2022	100	100	0	Yes
I. PREM KUMAR	ABCPI1466M	MA	01/04/2003	English literature	Assistant Professor	15/02/2024	100	0	0	Yes
Mrs. E. Pranav	AAWPE9081F	MBA	01/05/2008	Finance HR	Assistant Professor	08/09/2021	100	100	100	Yes
Dr. AREMAN F	BEQPA4009A	MBA & Ph.D	07/01/2022	Human Resource and Finance	Assistant Professor	24/03/2022	100	100	0	Yes
DR. HEMA NE	AGLPH4330F	MBA & Ph.D	10/12/2021	Investments Stock Market Crypto Currency Market	Assistant Professor	31/07/2023	100	0	0	Yes
DR. ANURADH	ADUPT5005B	M.A and Ph.D	03/11/2004	Philosophy	Assistant Professor	17/08/2023	100	0	0	Yes
DR. V PAVAN I	AMSPV9864B	M.Sc. and PhD	15/11/2022	Statistics	Assistant Professor	01/09/2023	100	0	0	Yes
DR. B. RAJESH	AKPPB2090Q	MBA & Ph.D	07/10/2021	Marketing HR COI	Assistant Professor	11/09/2023	100	0	0	Yes
J Mamatha	BNJPJ7266A	MBA	01/05/2017	Finance HR	Assistant Professor	02/12/2020	100	100	100	Yes
Dr. T. Malathi L	AESPT9653E	MBA & Ph.D	15/12/2023	HRM Entrepreneurship	Assistant Professor	02/01/2012	100	100	100	Yes
Dr. V. Vijaya Lakshmi	AEIPV6666D	MBA & Ph.D	02/03/2022	Finance Entrepreneurship HRM	Assistant Professor	13/12/2003	100	100	100	Yes
Dr. P. Rekha	AGUPP1462D	M.Com & Ph.D	15/07/2010	E Commerce IPR Marketing	Assistant Professor	08/10/1998	100	100	100	Yes
P.Naveen	AONPP0809F	M.Sc	01/08/2003	MATHEMATICS	Assistant Professor	20/09/2005	0	0	100	No
A Sreedhar	ARTPA3623R	M.Sc	01/05/2008	MATHEMATICS	Assistant Professor	01/07/2019	0	0	0	No
N. DIVYA	AZVPD8496P	M.E/M.Tech	12/05/2014	CSE	Assistant Professor	08/06/2014	100	100	100	Yes
Dr. B. SASIDH.	AODPB4330F	ME/M. Tech and PhD	21/09/2021	MEDICAL IMAGE PROCESSING	Assistant Professor	10/08/2021	0	0	100	Yes
D.ANUSHA	ATWPD2286N	M.E/M.Tech	17/11/2014	CSE	Assistant Professor	22/03/2022	100	100	0	Yes
S.Bhulakshmi	FCPPB5532J	M.E/M.Tech	04/10/2021	Power Electronics and Electric Drives	Assistant Professor	31/03/2022	100	100	0	Yes
T.ANIL	ARVPT9636M	M.E/M.Tech	16/11/2016	CSE	Assistant Professor	05/01/2017	0	100	100	No

B.Abhinethri	DELPB5243E	M.E/M.Tech	03/08/2016	Electrical Power Systems	Assistant Professor	01/08/2022	100	100	0	Yes
K.SNEHA RED	CAWPK7397A	M.E/M.Tech	28/12/2016	CSE	Assistant Professor	16/01/2017	100	100	100	Yes
S.Chaitanya	EGOPS4010N	M.E/M.Tech	15/09/2014	Power Electronics and Electric Drives	Assistant Professor	15/05/2023	100	0	0	Yes
K.V.Soumya	DAIPS6825L	M.E/M.Tech	05/05/2014	Power Electronics and Electric Drives	Assistant Professor	01/02/2017	0	100	100	Yes
Dr. B.R Lakshn	AMWPL8932A	M.A and Ph.D	01/02/2022	Indian Diaspora Writings	Assistant Professor	11/01/2016	100	100	100	Yes
Dr.M.Nagasree	AICPM3659H	M.Sc. and PhD	01/10/2020	Operations Research	Assistant Professor	20/11/1997	100	100	100	Yes
ARYA MOHAN	IKNPM8455G	MA	01/08/2021	English literature	Assistant Professor	19/06/2023	100	100	0	No
P.MOUNIKA	DCBPP8792L	M.E/M.Tech	07/09/2016	CSE	Assistant Professor	03/08/2021	100	100	100	Yes
D. Soujanya	CLBPD5088F	M.E/M.Tech	31/12/2018	CSE	Assistant Professor	01/07/2013	0	100	100	No
Gunishetty Sur	BGIPG4532Q	M.E/M.Tech	01/05/2017	Design Engineering	Assistant Professor	15/03/2024	100	0	0	Yes
Dr. I. RADHIKA	AAVPI3845C	M.Sc. and PhD	20/08/2020	Gas Hydrates	Assistant Professor	01/08/2009	100	100	100	Yes
M. SREEVALL	BXNPM5924N	M.Sc	03/04/2007	Solid State Physics	Assistant Professor	08/08/2009	100	100	100	Yes
O. SUJANA	ABHPO5695F	M.Sc	04/03/2008	Organic Chemistry	Assistant Professor	03/08/2009	100	100	100	Yes
S. RAMA KRIS	BMJPS8970D	M.Sc	03/05/2010	Solid State Physics	Assistant Professor	01/06/2016	100	100	100	Yes
T.V.RAM MOH.	ALBPR9823N	MBA	01/12/2009	HUMAN RESOURCE MANAGEMENT	Associate Professor	01/06/1997	100	100	100	Yes
Dr.K.Eshwari	ACIPE4828N	M.Sc. and PhD	31/12/2016	Inorganic Chemistry	Assistant Professor	15/04/2023	100	100	0	Yes
P.V.ASHA LATI	ARJPK2597A	MA	01/05/1995	ELT	Assistant Professor	28/05/2021	0	100	100	No
PVSSA. PARIM	BACCP8366H	M.E/M.Tech	09/11/2013	POWER ELECTRONICS	Assistant Professor	19/02/2018	100	100	100	Yes
CH. LEELA KR	APSPC7551H	M.E/M.Tech	09/11/2013	ELECTRICAL POWER ENGINEERING	Assistant Professor	30/04/2015	0	0	100	Yes
P. TEJASWI	BJVPP8970R	M.E/M.Tech	02/03/2013	HIGH VOLTAGE ENGINEERING	Assistant Professor	23/06/2014	0	0	100	No
A. LEELA KUM	ADFPL2485E	M.E/M.Tech	21/04/2017	CSE	Assistant Professor	01/10/2022	100	0	0	Yes

Dr.Moumita	AVUPC9148A	M.Sc. and PhD	02/08/2021	Coordination and Bio Inorganic Chemistry	Assistant Professor	17/02/2024	100	0	0	Yes
Dr.Sreekanth C	EALPS0359R	M.Sc. and PhD	23/12/2023	ORGANIC CHEMISTRY	Assistant Professor	16/02/2024	100	0	0	Yes
Dr.K.Syamala I	ANQPK3486R	M.Sc. and PhD	23/06/2017	Solid Waste Management	Assistant Professor	15/06/2006	100	100	100	Yes
Smitha Mahind	AMXPM3105H	MBA	01/12/2009	Finance	Assistant Professor	09/07/2018	100	100	100	Yes
M.Shivaram Pr	AXPPM1732M	MA	01/04/2002	English Literature	Assistant Professor	02/01/2019	0	0	100	No
Dr.M.Shanti	BBIPM8341L	M.Sc. and PhD	30/12/2023	Physico organic chemistry	Assistant Professor	03/08/2009	100	100	100	Yes
M. JYOTHI	AVDPM5710D	M.E/M.Tech	04/07/2014	CSE	Assistant Professor	01/10/2022	100	100	0	Yes

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)
2021-22(CAYm2)	905	65	14
2022-23(CAYm1)	895	68	13
2023-24(CAY)	968	75	13
Average	922	69	13

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	19	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 7.06

Academic Performance	CAYm1(2022-23)	CAYm2(2021-22)	CAYm3 (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	7.44	6.60	7.15
Total Number of successful students(Y)	115.00	120.00	93.00
Total Number of students appeared in the examination(Z)	115.00	120.00	93.00
API [X*(Y/Z)]	7.44	6.60	7.15

Average API[(AP1+AP2+AP3)/3] : 7.06

Assessment = Average API : 7.06

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

8.4.1 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
		Viva voce/Poster Presentation/Case-Study	Once in a semester before second Mid	Subjective – 30 M
		Mid-Term Examination	Twice in a semester.	Assignment – 05 M
		Semester End Examination	Once in a Semester	Total = 40 M SEE 60 Marks Total 100 Marks
	Laboratory Courses	Continuous Internal Evaluation	Continuous	Day to Day Evaluation – 20 M <i>(Observation – 05 M</i>
		Record	Continuous	<i>Record – 05 M</i>
		Internal Practical Examination	Once in a Semester	<i>Experiment – 05 M</i> <i>Viva – 05 M)</i>
		Semester End Examination	Once in a Semester	Internal Exam - 20 M 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	CO 1	Solve and analyse the solution for the system of equations	77.97	74.57	3	2.73	2.95
		CO 2	Compute the Eigen values and Eigen vectors which come across under linear transformations	66.95	62.71	2	2.32	2.06
		CO 3	Determine the extreme values of functions of two variables with/without constraints	72.88	86.86	3	2.92	2.98
		CO 4	Find the solutions of ordinary differential equations .	61.02	72.88	2	2.53	2.11
121AG	LINEAR ALGEBRA AND MULTIVARIABLE CALCULUS	CO 5	Evaluate double and triple integrals	80.51	61.01	3	2.42	2.88
		CO 6	Apply the knowledge of mathematics for real solutions	56.78	0	0	1	0.2

121AH	PROGRAMMING FOR PROBLEM SOLVING	CO 1	Relate various computing environments and formulate solutions to problems using algorithms and flowcharts.	87.29	88.13	2	2.94	2.19
		CO 2	Understand data types and control structures to solve problems.	89.83	79.66	3	2.69	2.94
		CO 3	Divide a problem into functions and synthesize a complete program.	86.44	77.96	3	2.03	2.81
		CO 4	Use arrays, pointers and strings to formulate programs.	88.14	65.67	3	2.84	2.97
		CO 5	Apply user defined data types to model real world data.	94.07	82.20	3	2.90	2.98
		CO 6	Develop solutions to problems using file-handling functions.	88.98	67.79	3	2.14	2.83

121AA	APPLIED CHEMISTRY	CO 1	The concepts to identify and analyse the hardness of water and its softening techniques in industry and daily usage	86.09	87.29	3	2.73	2.95
		CO 2	The working principles of batteries and their applications in automobile field, corrosion and its prevention.	89.57	84.32	3	2.37	2.87
		CO 3	The concepts of various types of polymers, conducting polymers, biodegradable polymers and their applications in industrial and medical fields.	93.91	62.52	3	2.30	2.86
		CO 4	Different types of energy sources and their applications in various engineering fields	91.30	72.5	3	2.87	2.97

		CO 5	The usage and applications of various types of cements, lubricants and refractories in engineering field.	95.65	71.66	3	2.83	2.97
		CO 6	The potential applications of chemistry in practical utility to become good engineers and entrepreneurs.	0	0	0	1.7	.34

121AB	APPLIED PHYSICS	CO 1	Explain the quantum mechanical aspects in physics and apply the same in differentiating the conducting properties of solids	91.53	73.72	3	2.66	2.93
		CO 2	Asses and modify the carrier concentration of different types of semiconductors and also be able to understand the working of semiconducting devices.	96.61	69.49	3	2.56	2.91
		CO 3	Choose materials on the basis of their electric and magnetic behaviour for different engineering applications	94.92	61.01	3	2.3	2.86
		CO 4	Differentiate different types of Lasers, optical fibers and realize their application in engineering fields	96.61	75.42	3	2.84	2.97

		CO 5	Appreciate the importance of nano materials and their applicability in modern engineering applications	97.46	74.57	3	2.91	2.98
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121AF	ENGLISH FOR SKILL ENHANCEMENT	CO 1	Understand the importance of vocabulary and sentence structures	77.97	79.23	3	3	3
		CO 2	Choose appropriate vocabulary and sentence structures for their oral and written communication	79.66	84.32	3	2.91	2.98
		CO 3	Demonstrate their understanding of the rules of functional grammar.	94.92	77.96	3	2.83	2.97
		CO 4	Develop comprehension skills from the known and unknown passages	100	85.59	3	2.97	2.99
		CO 5	Take an active part in drafting paragraphs, letters, essays, abstracts, précis and reports in various contexts	94.92	66.52	3	2.76	2.95
		CO 6	Acquire basic proficiency in reading and writing modules of English	39.83	50	0	2.02	.4

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	CO 1	Find the root of the algebraic and transcendental equation and solution of a linear system of equations	91.3	83.76	3	2.91	2.98
		CO 2	Fit a curve for the given data	67.83	75.21	3	2.80	2.96
		CO 3	Find the Numerical solutions for a given first order initial value problem and evaluate definite integral numerically	81.74	82.05	3	2.61	2.92
		CO 4	Learn Laplace Transform techniques and apply for solving ODE	68.7	45.29	1	2.08	1.22
		CO 5	Understand the concepts of Gradient, Divergence and Curl of a Vector and scalar point functions	84.35	84.61	3	2.89	2.98
		CO 6	Evaluate the line, surface and volume integrals	57.39	56.41	1	2	1.2

122AJ	DATA STRUCTURES	CO 1	Determine and analyze the complexity of given algorithms	58.26	88.03	3	2.92	2.98
		CO 2	Use basic data structures such as linked list, stack and queue	96.52	81.19	3	2.68	2.94
		CO 3	Implement various kinds of searching and sorting techniques	94.78	84.18	3	3	3
		CO 4	Design programs using advanced data structures like hash tables, binary trees, heaps and graphs	89.57	65.38	3	2.86	2.97
		CO 5	Build and compare search trees and balanced search trees	90.43	86.32	3	2.89	2.98
		CO 6	Choose appropriate data structures as applied to specified problem definition	0	73.50	0	2.64	.53

122AC	BASICS ELECTRICAL ENGINEERING	CO 1	Explain and analyze the magnetic and electric circuits	85.22	68.37	3	2.55	2.91
		CO 2	Analyze the basic circuits with application of Network Reduction Techniques and Network Theorems	80.87	72.64	3	2.51	2.90
		CO 3	Demonstrate the working principles of DC Electrical machines	90.43	88.03	3	2.97	2.99
		CO 4	Demonstrate the working principles of transformers and various AC Machines	85.22	70.08	3	2.51	2.90
		CO 5	Explain and analyze the magnetic and electric circuits	95.65	79.48	3	2.97	2.99
		CO 6	Analyze the basic circuits with application of Network Reduction Techniques and Network Theorems	0	0	0	1	.2

122AD	DESIGN THINKING	CO 1	Understand the importance of various phases of Design Thinking	99.12	85.59	3	2.85	2.97
		CO 2	Empathize with the customers and formulate specific problem statement	99.12	80.50	3	2.71	2.94
		CO 3	Generate an idea through ideation techniques	97.37	80.50	3	2.93	2.99
		CO 4	Understand various prototyping methods and Iterate solutions	98.25	82.20	3	2.87	2.97
		CO 5	Understand innovation, and application of design thinking in various sectors	99.12	83.89	3	2.89	2.98

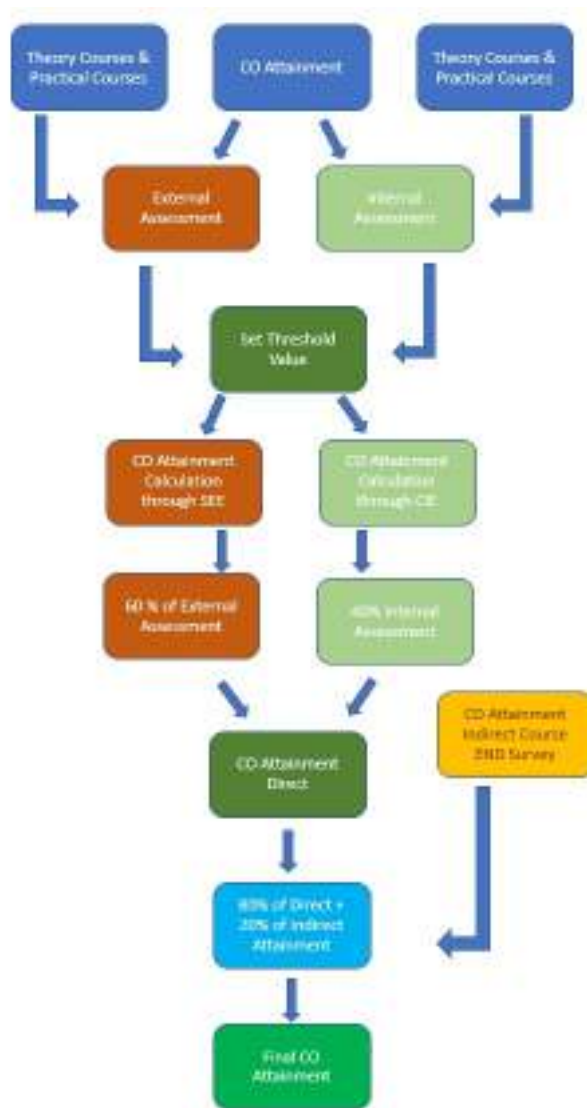
122AE	ENGINEERING GRAPHICS	CO 1	Acquire proficiency in instrumental drawing and will be able to visualize the object, draw conic sections and cycloidal curves	91.15	82.05	3	2.85	2.97
		CO 2	Draw and understand about orthographic projections of points, straight lines.	89.38	60.68	3	2.24	2.85
		CO 3	Improve visualization skills in different types of planes and solids.	80.53	54.70	3	2.08	2.82
		CO 4	Draw and understand about the development of surfaces of various solids	88.50	72.64	3	2.63	2.93
		CO 5	Ability to read, understand and interpret engineering drawings	90.27	67.52	3	2.5	2.9
		CO 6	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 calculations

U. HAROHANAHALLI INSTITUTE OF TECHNOLOGY & SCIENCE (FOR WOMEN)
JNTU, Hyderabad

CO-1 ANALYSIS OF 1 & 2 Semesters 2018-19 BATCH

Branch / Section	COE	Subject	MTC	MCO-1	Subject Code	SEATING	Assessment	Year	CO1	CO2	CO3	CO4	CO5	CO6
Q.No	18	20	24	18	24	18	24	18	24	18	24	18	24	18
Marks	2	3	2	2	3	2	3	2	3	2	3	2	3	2
CO-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CO-6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOT	113	99	188	145	261	186	336	210	399	285	540	369	675	483

Class Strength *	Marks (A)	Marks Scored (%)	% of attainment	Threshold value
385	170	315	85.97	57.75
390	174	315	80.77	57.75
395	178	315	79.99	57.75
400	182	315	78.75	57.75
405	186	315	77.53	57.75
410	190	315	76.34	57.75
415	194	315	75.14	57.75
420	198	315	73.94	57.75
425	202	315	72.73	57.75
430	206	315	71.53	57.75
435	210	315	70.33	57.75
440	214	315	69.13	57.75
445	218	315	67.93	57.75
450	222	315	66.73	57.75
455	226	315	65.53	57.75
460	230	315	64.34	57.75
465	234	315	63.14	57.75
470	238	315	61.94	57.75
475	242	315	60.74	57.75
480	246	315	59.54	57.75
485	250	315	58.34	57.75
490	254	315	57.14	57.75
495	258	315	55.94	57.75
500	262	315	54.74	57.75
505	266	315	53.54	57.75
510	270	315	52.34	57.75
515	274	315	51.14	57.75
520	278	315	49.94	57.75
525	282	315	48.74	57.75
530	286	315	47.54	57.75
535	290	315	46.34	57.75
540	294	315	45.14	57.75
545	298	315	43.94	57.75
550	302	315	42.74	57.75
555	306	315	41.54	57.75
560	310	315	40.34	57.75
565	314	315	39.14	57.75
570	318	315	37.94	57.75
575	322	315	36.74	57.75
580	326	315	35.54	57.75
585	330	315	34.34	57.75
590	334	315	33.14	57.75
595	338	315	31.94	57.75
600	342	315	30.74	57.75
605	346	315	29.54	57.75
610	350	315	28.34	57.75
615	354	315	27.14	57.75
620	358	315	25.94	57.75
625	362	315	24.74	57.75
630	366	315	23.54	57.75
635	370	315	22.34	57.75
640	374	315	21.14	57.75
645	378	315	19.94	57.75
650	382	315	18.74	57.75
655	386	315	17.54	57.75
660	390	315	16.34	57.75
665	394	315	15.14	57.75
670	398	315	13.94	57.75
675	402	315	12.74	57.75
680	406	315	11.54	57.75
685	410	315	10.34	57.75
690	414	315	9.14	57.75
695	418	315	7.94	57.75
700	422	315	6.74	57.75
705	426	315	5.54	57.75
710	430	315	4.34	57.75
715	434	315	3.14	57.75
720	438	315	1.94	57.75
725	442	315	0.74	57.75
730	446	315	-0.46	57.75
735	450	315	-1.66	57.75
740	454	315	-2.86	57.75
745	458	315	-4.06	57.75
750	462	315	-5.26	57.75
755	466	315	-6.46	57.75
760	470	315	-7.66	57.75
765	474	315	-8.86	57.75
770	478	315	-10.06	57.75
775	482	315	-11.26	57.75
780	486	315	-12.46	57.75
785	490	315	-13.66	57.75
790	494	315	-14.86	57.75
795	498	315	-16.06	57.75
800	502	315	-17.26	57.75
805	506	315	-18.46	57.75
810	510	315	-19.66	57.75
815	514	315	-20.86	57.75
820	518	315	-22.06	57.75
825	522	315	-23.26	57.75
830	526	315	-24.46	57.75
835	530	315	-25.66	57.75
840	534	315	-26.86	57.75
845	538	315	-28.06	57.75
850	542	315	-29.26	57.75
855	546	315	-30.46	57.75
860	550	315	-31.66	57.75
865	554	315	-32.86	57.75
870	558	315	-34.06	57.75
875	562	315	-35.26	57.75
880	566	315	-36.46	57.75
885	570	315	-37.66	57.75
890	574	315	-38.86	57.75
895	578	315	-40.06	57.75
900	582	315	-41.26	57.75
905	586	315	-42.46	57.75
910	590	315	-43.66	57.75
915	594	315	-44.86	57.75
920	598	315	-46.06	57.75
925	602	315	-47.26	57.75
930	606	315	-48.46	57.75
935	610	315	-49.66	57.75
940	614	315	-50.86	57.75
945	618	315	-52.06	57.75
950	622	315	-53.26	57.75
955	626	315	-54.46	57.75
960	630	315	-55.66	57.75
965	634	315	-56.86	57.75
970	638	315	-58.06	57.75
975	642	315	-59.26	57.75
980	646	315	-60.46	57.75
985	650	315	-61.66	57.75
990	654	315	-62.86	57.75
995	658	315	-64.06	57.75

THRESHOLD VALUES	CO1	CO2	CO3	CO4	CO5	CO6
Aggregation in % of each	60.50	58.33	60.00	58.50	58.00	58.50
No. of students above Threshold level for each	285	238	285	235	172	285
% of students above Threshold level for each	67.89	57.89	67.89	57.39	60.51	71.16
Attainment level - wise	1	0	0	1	0	0
Overall Attainment Level	66.41					

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

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	3
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	3	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

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	2.48	2.48	2.07	1.52	1.52	1.65	1.38	PO8	PO9	PO10	1.38	1.65
C102	1.34	1.51	1.34	1.51	1.51	1.17	1.34	0.84	1.34	1.67	1.34	0.84
C103	2.20	2.20	0.73	0.86	1.17	PO6	PO7	PO8	PO9	PO10	PO11	1.22
C104	1.95	1.78	1.95	1.95	PO5	PO6	PO7	PO8	1.95	PO10	PO11	PO12
C105	1.95	0.98	1.76	0.98	1.17	2.15	0.98	1.37	0.98	1.37	0.98	0.98
C106	1.95	1.95	2.28	1.95	1.14	PO6	PO7	PO8	1.95	PO10	PO11	PO12
C107	2.81	2.81	2.34	1.87	PO5	PO6	PO7	PO8	PO9	PO10	1.87	1.87
C108	1.63	1.63	1.63	1.36	1.08	1.22	1.36	0.81	0.81	1.63	1.30	1.49
C109	1.94	1.66	2.49	PO4	1.66	1.38	1.25	PO8	PO9	PO10	PO11	1.38
C110	2.20	1.45	1.65	2.07	1.49	0.99	PO7	0.83	0.83	0.83	PO11	1.52
C111	1.70	PO2	PO3	PO4	1.70	1.36	1.70	1.49	1.42	2.55	PO11	2.55
C112	2.57	2.57	2.43	0.86	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.86
C113	2.38	1.85	PO3	PO4	PO5	PO6	PO7	PO8	1.59	PO10	PO11	0.79
C114	1.55	1.37	1.72	1.72	0.69	2.06	0.69	PO8	PO9	PO10	PO11	0.92
C115	1.50	1.50	1.33	1.50	1.99	1.66	1.66	1.00	1.99	1.00	PO11	1.99
C116	PO1	PO2	0.97	1.29	2.43	1.29	0.97	1.46	2.43	2.91	2.43	2.91
C117	2.90	2.90	2.74	1.13	1.93	PO6	PO7	PO8	PO9	PO10	PO11	0.97

PO Attainment Level**PSOs Attainment:**

Course	PSO1	PSO2
C101	2.48	2.34
C102	0.84	0.84
C103	1.10	0.98
C104	1.95	1.95
C105	1.56	1.56
C106	1.79	1.63
C107	2.65	1.87
C108	0.81	0.81
C109	1.10	1.10
C110	0.83	0.83
C111	PSO1	0.85
C112	1.29	PSO2
C113	1.45	PSO2
C114	0.86	0.69
C115	1.0	1.0
C116	PSO1	0.97
C117	1.55	PSO2

PSO Attainment Level

Course	PO1	PO2
Direct Attainment	1.42	1.24
PSO Attainment	1.42	1.24

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	1.40	2.07	Target level has been achieved for PO1
Assignments were given for practice for gaining conceptual knowledge in Engineering.			
PO 2 : Problem Analysis			
PO 2	1.40	1.91	Target level has been achieved for PO2
Tutorial classes were conducted for problem solving on all Engineering applications.			
PO 3 : Design/development of Solutions			
PO 3	1.40	1.83	Target level 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	1.40	1.47	Target level 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	1.40	1.50	Target level 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	1.40	1.49	Target level 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	1.40	1.26	C102,C105&C108- Students found difficulty in understanding the concepts and importance of sustainability. C115-They should strive to develop and implement sustainable practices in their work, such as reducing energy consumption, minimizing waste, and adopting eco-friendly manufacturing processes. C101: Basic electrical engineering courses typically focus on fundamental principles such as circuit theory, electromagnetism, and digital electronics. While these concepts form the building blocks of electrical engineering, their direct connection to environmental sustainability may not be explicitly addressed in introductory coursework. C116 - the students were not able to correlate language learning and environmental sustainability, hence the low attainment. C114-The curriculum lacks sufficient practical application opportunities and hands-on experiences
12102-Encourages students to take part in competitions, projects, industry visits C101: Invite guest speakers from industry or academia to give lectures or seminars on topics related to electrical engineering and environmental sustainability. C102,C105&C108:- Provided societal based examples during the explanation to improve the concentration towards the learning. C114-Encourage hands-on learning experiences, group projects, case studies for understanding towards sustainable development. C116 The course plan is designed to include activities related to the concepts an environment and the students are sensetised towards sustainability in langauge learning contexts.			
PO 8 : Ethics			

PO 8	1.40	1.11	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. C110- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. C116- As there is no direct correlation with the subject and ethics the attainment levels were low. 12102--Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
121AB - Educate students about ethical considerations in research, and responsible conduct, ensuring adherence to ethical guidelines throughout their investigations. 12102--students are encouraged workshops are conducted, and students are educated with ethical C116- the student are sensitized towards the concept of ethics through real life examples and case studies. practices" C102,C105&C108-Specific rubrics to clearly analyze the individual contribution towards the work completion motivated the students to learn ethical behavior in practice.			

PO 9 : Individual and Team Work

PO 9	1.40	1.53	Target level has been achieved for PO9
Students were educated about the importance of team work in executing the programmes related to academics as well as presentations.			

PO 10 : Communication

PO 10	1.40	1.71	Target level 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	1.40	1.55	Target level 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	1.40	1.46	Target level 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 : Graduates will be able to analyze, develop and demonstrate Projects, both Software and Hardware in relevant topics of Electrical and Electronics Engineering			
PSO 1	1.40	1.42	Target level has been achieved for PSO1
Guest lectures are conducted to improve and update knowledge.			
PSO 2 : Graduates will be able to identify and solve problems in different core areas of Electrical and Electronics Engineering to meet the industry requirements along with overall personality and skills development.			
PSO 2	1.40	1.24	C102,C105&C108-The course has no direct correlation with the concerned PSO. C116-The course has no direct correlation with the concerned PSO and hence the low attainment level. C111- The course has no direct correlation with the concerned PSO and hence the low attainment level. C114-Due to insufficient practical application opportunities with industry demands C109-Lack of direct correlation with the concerned PSO
C102-Students were asked to identify the gap and come up with feasible solutions C105&C108-Students were taught practical applications of concepts of conic sections with real world case studies. C116- The classes are conducted to meet the industry needs. C111- The classes are conducted to meet the industry needs. C114-Updating equipment and facilities developing new experiments that reflect industry practices. C109-Enhancing teaching methodologies and resources, and continuously monitoring and revising assessment methods			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

9.1 Students Counselling/Mentoring**A. Details of the mentoring system that has been developed for the students for various purposes and 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 support, emotional support, motivation, and a welcoming environment. Mentors (Faculty members) are essential to the Mentee's (students) development and to have a favourable effect on their perseverance and academic success. Mentees can ask their Mentors for academic and personal advice through the Programme.

- Each Mentor is assigned with 15 to 20 Mentees.
- In the first year, Mentors are allocated from the first year departments (H&M and BS).
- In the Second year, Mentors are allocated from the specific Departments, guaranteeing a steady support structure throughout their course of study.

9.1.A.1 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 15-20 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.

9.1.A.2 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.

9.1.A.3 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.

9.1.A.4 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 for the Mentees to work on social and emotional development that will influence 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.A.4.1 shows the stages of Counselling process.



Fig 9.1.A.4.1 Counselling Process

Fig. 9.1.A.4.2 is a picture form interaction of students with Dr. Vinesh during speech on World Mental Day 10-10-2023. He had given the key points on how to handle stress, depression and how to have good mental health.



Fig 9.1.A.4.2 Session by Dr. Vinesh on “Mindset Matters - Unlocking your Potential” on World Mental Health Day

Fig. 9.1.A.4.3 shows counselling of a student by the in-campus psychologist for better mental health. Table 9.1.A.4.1 shows the summary of mentoring of students for each academic year by Psychologist. Student names are encrypted for privacy reasons. The result of this mentoring was improvement of academic performance and placement in companies/industries.



Fig 9.1.A.4.3 Counselling of Student by Mrs V.Jahnavi , in-campus Psychologist

Table 9.1.A.4.1. Summary of students mentored by Psychologist

S. No.	Name of the Mentee	Branch/ Batch	Problem	Efficacy
Academic Year 2021-2022				
1	KD	EEE 2020-24	<ul style="list-style-type: none"> Financial problems. Planned to go back and join a college in hometown due to single parent 	<ul style="list-style-type: none"> Approached the Management. Given 50% concession in hostel fee till course completion. Communicated with mother. She secured a good placement
Academic Year 2022-2023				
2	PS	EEE 2022-26	<ul style="list-style-type: none"> Academic pressure. Rural background, low exposure. Worried about future and unable to focus on academics. 	<ul style="list-style-type: none"> Helped with ways of bridging educational gaps, accessing resources, and fostering confidence and resilience in academic pursuits. Showed marked improvement.
Academic Year 2023-2024				
3	SP	EEE 2023-27	<ul style="list-style-type: none"> Abandoned by parents after refusing child marriage. Stayed in orphanage run by Yadadri Collectorate. Emotional and financial issues 	<ul style="list-style-type: none"> Tuition fee and hostel fee waived 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


9.1.A.5 Students Counselling/Mentoring Points

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. A sample cover page, last page and placement details in counselling record of a student as shown in **Figure 9.1.A.5.1 to 9.1.A.5.3**


**G. Narayanamma Institute of
Technology and Science (For Women)**
 (AUTONOMOUS)
 Shaikpet, Hyderabad - 500 104.

Student Counseling Record

Name of the Student: JAKRIFA NISHAMMA (6-1171635877)
 Branch: EEE - B IV - B
 Hall Ticket No.: 19251A0288
 Batch: 2019 - 2023

Counselors :

Semester - I	Mr. H. REDDY KUMAR, Asst. Prof. of Maths, IIM Dept.
Semester - II	Mr. B. Shankaran, Asst. Prof. in English, IIM Dept.
Semester - III	Prof. G. Gopinath, EEE Dept.
Semester - IV	Prof. G. Gopinath, EEE Dept.
Semester - V	Prof. G. Gopinath, EEE Dept.
Semester - VI	Prof. G. Gopinath, EEE Dept.
Semester - VII	Prof. G. Gopinath, EEE Dept.

Completed
10/1/24

Fig 9.1.A.5.1 Cover page of Mentee Counseling Record

Student's Summary Sheet

Name of the Student: J. Nishank Roll No. 1925154250

Academic Performance:

Semester	Subjects		Cumulative Grade Point Average (CGPA) Obtained
	Are you clear?	Un-cleared Subjects / Wait of re-examine	
Semester - I	Yes (✓)	-	6.5
Semester - II	Yes (✓)	-	6.5
Semester - III	Yes (✓)	Applied for re-evaluation in AE	6.5
Semester - III	Yes (✓)	-	6.1
Semester - IV	Yes (✓)	-	6.36
Semester - V	Yes (✓)	-	6.9
Semester - VI	Yes (✓)	-	7.11

COFA:

Competitive exams appeared:

GATE: Yes/No Result: --- GRE: Yes/No Result: --- TOEFL: Yes/No Result: ---

IES: Yes/No Result: --- CAT: Yes/No Result: --- Any Others: Result: ---

Company interviews attended:

Name of the Company	JAKSON	ALSTOM	-	-
Selected (Yes/No)	YES	YES	-	-

(11)

J. Nishank (Date) 6/16/24 G. Anand

Fig 9.1.A.5.2 Last Page of Counselling Record at the time of Exit

Key personnel (host in the college / CRM / association representative etc.)
 Member - Departmental Technical CMB - "Tejas"

District Skills council / Previous awards received:
 Participated and certified in E-learning course on self charge hybrid vehicle

Status of the candidate at the time of leaving the campus

Placement	Higher studies	Others
1) Infosys - 12th	planning in future	I have completed my graduation in CMTS - My experience in CMTS is fabulous - J. Nithin
2) Infosys - 6-59 12th		

Counselor's Remarks:
 She has taken part in four Co-curricular activities towards the end of the semester. She also got placed with good package. On the whole there is a considerable improvement in her.
 - J. Nithin

J. Nithin
 (Prof. G. Copmath)

N. M. N. S.
 Secretary

Fig 9.1.A.5.3 Counselling Record showing Placement details

Fig. 9.1.A.5.4 shows the Mentor-Mentee allotment in 2022-2023 II semester in the Department of EEE. The allotment includes students from II, III and IV years along with mentor- mentee ratio.

G. Narayanaswami Institute of Technology and Science (For Women)
(AICTE APPROVED)
Wazirpur, Hyderabad-500084

ELECTRONIC & ELECTRONICS ENGINEERING
Students enrolment statement for Academic year 2023-24 Semester I

S.No	Faculty Name	B. Tech	
		Roll Numbers	Total
1	Dr.G.Arunima	2023A001, 2023A002, 2023A003, 2023A004, 2023A005 (5)	5
		2023A006, 2023A007, 2023A008, 2023A009, 2023A010 (5)	
		2023A011, 2023A012 (2)	
2	G. Gayathri	2023A013, 2023A014, 2023A015 (3)	3
		2023A016, 2023A017, 2023A018, 2023A019, 2023A020 (5)	
3	G.Ramya Reddy	2023A021, 2023A022, 2023A023, 2023A024, 2023A025 (5)	5
		2023A026, 2023A027, 2023A028, 2023A029, 2023A030 (5)	
		2023A031, 2023A032, 2023A033, 2023A034 (4)	
4	Dr.R.Nageswari Rao	2023A035, 2023A036, 2023A037, 2023A038, 2023A039 (5)	5
		2023A040, 2023A041, 2023A042, 2023A043, 2023A044 (5)	
		2023A045, 2023A046 (2)	
5	Dr.T.Sujya Prakash	2023A047, 2023A048, 2023A049, 2023A050, 2023A051 (5)	5
		2023A052, 2023A053, 2023A054, 2023A055, 2023A056 (5)	
		2023A057, 2023A058 (2)	
6	Dr.B.SriChandha Reddy	2023A059, 2023A060, 2023A061, 2023A062, 2023A063 (5)	5
		2023A064, 2023A065, 2023A066, 2023A067, 2023A068 (5)	
		2023A069, 2023A070 (2)	

S.No	Faculty Name	B. Tech	
		Roll Numbers	Total
7	B.Narasimha Reddy	2023A071, 2023A072, 2023A073, 2023A074, 2023A075 (5)	5
		2023A076, 2023A077, 2023A078, 2023A079, 2023A080 (5)	
		2023A081, 2023A082 (2)	
8	E.Chaitani	2023A083, 2023A084, 2023A085, 2023A086, 2023A087 (5)	5
		2023A088, 2023A089, 2023A090, 2023A091, 2023A092 (5)	
		2023A093, 2023A094 (2)	
9	K.Suresh Latha	2023A095, 2023A096, 2023A097, 2023A098, 2023A099 (5)	5
		2023A100, 2023A101, 2023A102, 2023A103, 2023A104 (5)	
		2023A105, 2023A106 (2)	
10	K.Priyavathi	2023A107, 2023A108, 2023A109, 2023A110, 2023A111 (5)	5
		2023A112, 2023A113, 2023A114, 2023A115, 2023A116 (5)	
		2023A117, 2023A118 (2)	
11	F.Bachchan	2023A119, 2023A120, 2023A121, 2023A122, 2023A123 (5)	5
		2023A124, 2023A125, 2023A126, 2023A127, 2023A128 (5)	
		2023A129, 2023A130 (2)	
12	P.SaiSrinjan Kumar	2023A131, 2023A132, 2023A133, 2023A134, 2023A135 (5)	5
		2023A136, 2023A137, 2023A138, 2023A139, 2023A140 (5)	
		2023A141, 2023A142 (2)	
13	K.Pandakumar	2023A143, 2023A144, 2023A145, 2023A146, 2023A147 (5)	5
		2023A148, 2023A149, 2023A150, 2023A151, 2023A152 (5)	
		2023A153, 2023A154 (2)	

S.No	Faculty Name	Roll Numbers	Total
14	Ch.Lakshmin	2021A0047, 2021A0051, 2021A0026, 2120A0007, 2021A0101 (5) 1821A0078, 1921A0011, 1921A0013, 1921A0015, 1921A0017, 1921A0019 (6) 2121A0036, 2121A0011 (2)	13
15	V.Priyanka	2021A0018, 2021A0019, 2021A0014, 2120A0011 (4) 1821A0016, 1821A0018, 2021A0020, 1821A0026, 1921A0019 (5) 2121A0026, 2121A0017 (2)	11
16	G.Sujebi	2021A0016, 2021A0046, 2021A0026, 2021A022, 2021A0026 (5) 1821A0018, 1821A0011, 1821A0026, 1821A0026, 1821A0026 (5) 2121A0025, 2121A0001 (2)	10
17	P.Mona	2021A0061, 2021A0024, 2021A0047, 2021A0073, 2021A0018 (4) 1921A0031, 1921A0026, 1821A0007, 2021A0021, 1921A0026 (5) 2121A0026, 2121A0016 (2)	11
18	K.V.Sneha	2021A0007, 2021A0029, 2021A0021, 2021A0016, 2021A0026 (5) 1921A0019, 1821A0026, 1821A0017, 1821A0015, 1821A0026 (5) 2121A0023, 2121A0029 (2)	16
19	V.Ravi Shankar	2021A0018, 2120A0005, 2021A0019, 2021A0029, 2021A0012 (5) 1821A0024, 1821A0017, 1821A0026, 1821A0026, 1821A0018 (5) 2121A0017, 2121A0027 (2)	14
20	K.V.Diana Lakshmi	2021A0036, 2120A0006, 2021A0002, 2120A0001, 2021A0021 (5) 1921A0011, 2021A0003, 1821A0026, 1821A0026, 1821A0026 (5) 2121A0018, 2121A0016 (2)	16

S.No	Faculty Name	Roll Numbers	Total
21	F.V.S.S.A. Parvathi	2021A0048, 2021A0020, 2021A0021, 2121A0024, 2021A0026 (5) 1821A0022, 1821A0049, 1821A0047, 1821A0041, 1821A0040 (5) 2121A0026, 2121A0016 (2)	12
22	Dr.T.Hemalatha	2021A0011, 2120A0008, 2021A0006, 2120A0002, 2021A0020 (5) 1821A0006, 1821A0005, 1821A0015, 1821A0026, 1821A0016 (5) 2121A0001, 2121A0026 (2)	13
23	V.Suini Deepthi	2120A0004, 2120A0006, 2021A0045, 2021A0029, 2021A0012 (5) 1821A0001, 1821A0026, 1821A0016, 1821A0006, 1821A0026 (5) 2121A0026, 2121A0016 (2)	13
24	S.Shobakshi	2021A0029, 2021A0076, 2021A0071, 2021A0076, 2021A0018 (5) 1821A0026, 1821A0076, 1821A0026, 1821A0009 (4) 2121A0073, 2121A0076 (2)	11
25	Dr.G.Suleesh	2120A0003, 2021A0026, 2120A0011, 2021A0011 (4) 1821A0018, 1821A0027, 1821A0018, 1821A0006, 1821A0014 (5) 2121A0009, 2121A0027 (2)	11
26	S.Ashwini	2021A0026, 2021A0008, 2021A0021, 2021A0024, 2120A0017 (5) 1821A0026, 1821A0026, 1821A0024, 1821A0001, 1821A0026 (5) 2121A0023, 2121A0029 (2)	13
M.Tech			
27	Dr.P.Ramkrishna Reddy	2121A0040-1404	1
28	G.L.Joshi	2121A0040-5400	1

Fig 9.1.A.5.4 Counselling Allotment of Mentor-Mentee during 2022-2023 sem -I

Fig 9.1.A.5.5 shows the counselling summary at the end of the semester.

G. NARAYANASIMA INSTITUTE OF TECHNOLOGY & SCIENCE
(For Women)
Department of EEE
Student Counseling Report

Academic Year: 2020 - 2021, Sem: I / II

Name of the Counselor: Ms. E. Govilakshmi
 Designation: Asst. Prof.
 Class & Semester Offered: II, II, III B.Tech - I Sem

Roll Numbers from: 2020180295 to 2020180300 / 2020180301, 20-20180302, 20-20180303, 20-20180304, 20-20180305, 20-20180306

Statement of Report	
1. No. of students Counseled	14
2. No. of Students with Improved Attendance	02
3. No. of Students with improved academic performance	02
4. No. of Students with improved Overall Grades (Previous semester/ stage)	-
5. No. of job/interviews in counseling in terms of	
a. Attendance	01 (2020180295)
b. Marks	NIL
c. Any others	NIL
6. Any cases of acceptably improved performance in terms of (Mention the Name with Regd. Number)	
a. Attendance	20-281: S4, S1, S6, S5, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100
b. Marks	20-281: S4, S1, S6, S5, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100
7. Any other specific observations noted during the counseling	
<u>2020180303 Placed in Dubina, 20-21 Placed in NARPEC</u> <u>2020180295 Placed in Cognizant and also Interview with Atfand.</u>	
Signature of the Counselor	Signature of the HOD
Date: <u>2/12/22</u>	Date: <u>2/15/22</u>

Fig 9.1.A.5.5 Student Counselling Report from Faculty at the end of semester

9.1.A.6 Mentor-Mentee Ratio

The Department Counselling in-charge assigns a maximum of 19 Mentees to each Mentor for efficient, simple, and seamless counselling.

EEE Department Mentor-Mentee ratio of academic year 2020 to 2024 and semester is listed below **Table 9.1.A.6.1**

Table 9.1.A.6.1 Mentor-Mentee Ratio of EEE Department from 2020 to 2024

Academic Year	Semester	Mentor to Mentee ratio
2020-2021	I	1:20
	II	1:20

2021-2022	I	1:14
	II	1:14
2022-2023	I	1:14
	II	1:14
2023-2024	I	1:15
	II	1:15

9.1.A.7 Counselling Report Summary:

The outcome of students Counselling after each semester is shown in Table 9.1.A.7.1 This table shows the improvement of Mentees' academic performance as a result of regular periodic counselling by the Mentor.

Table 9.1.A.7.1 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	422	144	138
	II	422	152	132
2021-2022	II	403	140	85
2022-2023	I	388	141	122
	II	388	145	125
2023-2024	I	393	132	126

9.1.A.8 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.A.8.1 and Fig. 9.1.A.8.2 shows the details of E-Cap. It helps the Mentor in monitoring the Mentees easily and effectively.



Fig 9.1.A.8.1 E-Cap details

E. SARAVAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (FOR WOMEN)
 AUTONOMOUS (Code: 22)
 Approved By AICTE, Affiliated to JNTUK, Assisted by NBA & SAAC, ISO 9001:2015 Certified
 9-7-25/21, Market, Hyderabad - 500104
 Tel: 2466667159

ATTENDANCE REPORT
 Course : E-Cell
 Branch : Electrical and Electronic Engineering
 Semester : 3rd Sem II Sem

Sl.No. Roll No.	Student Name	ATT	PP	ACTN	IN	LAB	PRG	THOR	ATTN	%
Batch 1										
1	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
2	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
3	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
4	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
5	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
6	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
7	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
8	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
9	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
10	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
11	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
12	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
13	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
14	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
15	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
16	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
17	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51
18	CHITRAKANTHI, ANANDHARAJU	14	6	12	6	10	3	6	64	79.51

Fig 9.1.A.8.2 E-Cap showing Attendance report of students

9.1.A.9 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.A.9.1 shows the parent communication letter.

G. Narayanamma Institute of Technology & Science
(for women)
Department of Electrical & Electronics Engineering
Sub: Shortage of Attendance - Reg

To
The parent

Your daughter Kum. Aditha Srinivasa of
18-16 Year 1 sem EEE bearing H.T.No. 2025/00201 has put up
68.48% attendance from 18/9/23 to 30/09/23. As per the
JNTUW regulations, a candidate has to obtain a minimum of 75% of cumulative
attendance in all the subjects by the end of the semester to be promoted for her next
semester. In case she doesn't improve the attendance, she will be detained. This is for
your kind information.

K. Srinivas
Class Teacher Concerned

[Signature]
HOD-EEE

UNDERTAKING BY THE PARENT

I Aditha Srinivasa Eddy parent/guardian of
Aditha Srinivasa will ensure that my ward will obtain a minimum of
75% of cumulative attendance in all the subjects by the end of the semester. In case
she doesn't improve, I am aware of the consequences that she will be detained and
have to repeat the same class as and when it is offered.

[Signature]
Signature of the Student

A. Srinivasa
Signature of the Parent / Guardian

Date: 11/10/23

Name of the Candidate: Aditha Srinivasa

H.T. No: 2025/00201

Percentage of Attendance: 68.48%

[Signature]
PRINCIPAL 3/11/23

Fig 9.1.A.9.1 Undertaking by Parent

9.1.A.10 Class Teacher Report

The Class Teacher submits student's report with less than 65% attendance. Fig. 9.1.A.10.1 shows Class Teacher Report. The attendance shortage is informed to the parents via phone call and suggested them to make sure their daughter attends college regularly.

GNTS	GNTS-D/EEE/SAD/2021
Student attendance details	DEPARTMENT : EEE

Date: 08-10-2021

Class Teacher Report - IV/IV EEE A

The following Students of IV/IV EEE-A have attendance less than 65% during the month of September 2021. Her parents have been informed of her 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 regularly.

S.No	ROLL NO.	NAME	ATTENDANCE
1	2021A0200	Angshu Saha	64.67%
2	2021A0217	Meghna	58.7%
3	2021A0222	S.Lalitha Sai Kumar	62.84%
4	2021A0238	Changni Kundu	52.85%
5	2021A0246	Pallabani Jeyaraj	58.22%

[Handwritten Signature]
(HOD-EEE)

Class Teacher - IV/IV EEE-A
[Handwritten Signature]
K. Swarna Latha
Assistant Professor, EEE

Fig 9.1.A.10.1 Class Teacher Report

9.1.A.11 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 (<13 marks for GNR18 Regulation and <15 marks in GNR22 Regulation). Fig. 9.1.A.11.1 shows the report on slow learners. Fig. 9.1.A.11.2 shows improvement of slow learners after counselling. Fig 9.1.A.11.3 a sample Counselling record of student showing improvement in Power Electronics & Electric Hybrid Vehicles subjects Fig. 9.1.A.11.4 shows the schedule of remedial classes and Fig. 9.1.A.11.5 shows a report on remedial classes.

GNTS	GNTS-D/EEE/EEE/18.176
Encouragement for Bright & Weak Students	Department EEE

COUNSELING REPORT OF WEAK STUDENTS

Branch: 2021 - 21 Subject: Power System Protection Date: 10/08/21
 A.N: 23 - 26 Year, Section: IV/IV - A

The following student of B. Tech EEE IV/IV Sec - A have scored less than 15 out of 20 marks in MS3 I. She has been identified as weak student and counseling session is conducted for her individually addressing her difficulty in understanding the subject. The reasons for less marks and suggestions by faculty are summarized below.

Head of the Department

S. No	Roll No.	Marks	Reason(s) for less marks in final Exam	Suggestions by the Faculty for improvement	Student Signature
1	2021A0217	10	Health issues suffered with Typhoid	Suggested to take care of health, and to be regular in classes and to meet faculty for subject doubts clarification.	<i>[Handwritten Signature]</i>

[Handwritten Signature]
Signature of the Faculty
Doc: 19/08/21

[Handwritten Signature]
Head of the Department
(Dr. V.Rama Krishna Reddy)

Fig 9.1.A.11.1 Slow Learners Report

GNIS
Management for Bright & Weak Students

PERFORMANCE IMPROVEMENT IN MID - II
Subject: Power System Protection
Year: Session: IV/VA

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET) - II
Department: EEE

Batch: 2018 - 20
 AS/27 - 28

Date: 14/11/23

The following student of B. Tech UET/VTU has shown improvement in MID - II after counselling.

R.No.	Roll No.	MID - I Marks	MID - II Marks
1	2019160212	11	20


 Signature of the Faculty
 Date: 14/11/23


 Head of the Department
 (Dr. P. Ramesh Babu)

Fig 9.1.A.11.2 Slow Learners improvement in marks

Student's Academic Record

Semester: VI
 Session: IV - 2022 - 2023
 Class Teacher: P. Ramesh Babu

Sl. No.	Name of the Subjects	Mid Semester		Semester	Credits/Total Credits
		1	2		
1	Power System Protection	25	25	25	5
2	Power System Protection	25	25	25	5
3	Power System Protection	15	15	15	3
4	Power System Protection	15	15	15	3
5	Power System Protection	15	15	15	3
6	Power System Protection	15	15	15	3
7	Power System Protection	15	15	15	3
8	Power System Protection	15	15	15	3
9	Power System Protection	15	15	15	3
10	Power System Protection	15	15	15	3
TOTAL					30

Total: $(5 \times 5) + (5 \times 5) + (5 \times 3) + (5 \times 3) + (5 \times 3) + (5 \times 3) + (5 \times 3) + (5 \times 3) + (5 \times 3) + (5 \times 3) = 150$

Total Credits: $5 \times 5 = 25$

Sl. No.	Name of the Student	Initials	Signature	Date
1	2019160212			
2	2019160212			

Signature of the Faculty: P. Ramesh Babu
 Signature of the Department Head: P. Ramesh Babu

Fig.9.1.A.11.3. Counselling record of student showing improvement in Power Electronics & Electric Hybrid Vehicles subjects.

GNR18/EE-12/2023-2024	Dept:EEE
REMEDIAL CLASSES	Date:24-08-2023

The Remedial Classes have been scheduled for the following students during the month of September: October2023 during Saturdays.

Version: 1.0.0

S.No.	Subject	Year & section	Faculty name	Roll number
1	Microprocessors & Microcontrollers (MPC4C)	III YEAR SEM II	Mr.V.Boori RameshKishan	20231A0012
				20231A0028
				20231A0250
				20231A0287
20231A0292				
2	Power Electronics (PE)	III YEAR SEM II	Mr.Ch.Lakshidevadas	20231A0217
				20231A0287
3	DE-2 (DBMS)	III YEAR SEM II	Mrs.S.Danya	20231A0012
				20231A0028
4	Fundamentals of Management(FM)	III YEAR SEM II	Dr.V.Vijaya Lakshmi	20231A0233


HOD - EEE

Fig 9.1.A.11.4 Remedial Class Time Table

G. Nagsaheb Institute of Technology & Science (for Women)
(Autonomous)
Shalgaon, Hyderabad - 500030
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

REMEDIAL CLASSES FOR 2020 BATCH-III YR SEM II
Conducted in IV YEAR SEM I (2023-2024)
SUBJECT: POWER ELECTRONICS
FACULTY: Mr. Ch. Laxma Kumar

TIME: 1:00 to 2:00 PM		TIME: 1:00 to 2:00 PM				
S.No	Roll Number/Date	18/08/23	21/08/23	28/08/23	04/09/23	11/09/23
1	20231A0217					
2	20231A0287					
3	20231A0292					


HOD - EEE

Fig 9.1.11.5 Remedial class report

9.1.A.12 Advanced Learners [Fast Learners] Report

Depending on the marks of the students in Internal Assessment-1, students are classified as advanced learners (if marks are greater than 25 for GNR18 Regulation and greater than 30 in R22 Regulation). Fig. 9.1.A.12.1 shows the report on advanced learners. Fig 9.1.A.12.2 shows the participation of Advanced Learners in various Hackathons, Ideathons, Workshops, etc...

UNIT		UNITS-B / EEE / EDW / IL/DH			
Constitutional for Bright & Warm Students		Department EEE			
Form: 2023-24		Date: 18.09.23			
A.N: 23-24		Subject: Power System Protection			
Year: Institute: EEE/A		Class: Institute: EEE/A			
The following students of B. Tech EEE EDW/A - A have scored above 25 marks out of 20 marks in SEE I. They have been identified as bright students and counseling sessions are conducted for them individually addressing them to improve knowledge in the subject so that they can participate in Mini Projects, Hackathons, Kaggle/MLPETL courses or any event participation.					
S. No.	Roll No.	Marks	Extra Activities/Hackathons/ Membership Drive/Event Participation	NPTEL Course Completion Certificate	Student Signature
1.	1021100205	20	-	-	<i>[Signature]</i>
2.	1021100207	21	-	-	<i>[Signature]</i>
3.	1021100200	21	-	-	<i>[Signature]</i>
4.	1021100211	30	Presented Paper at IC. Madras engineering college	-	<i>[Signature]</i>
5.	1021100213	30	-	-	<i>[Signature]</i>
6.	1021100204	30	-	-	<i>[Signature]</i>
7.	1021100201	20	Participated in NADA open gate festival	-	<i>[Signature]</i>
8.	1021100203	18	-	-	<i>[Signature]</i>
9.	1021100216	18	-	-	<i>[Signature]</i>
10.	1021100207	18	Was Member of committee for paper presentation in EEE Dept. ONITD	-	<i>[Signature]</i>
11.	1021100208	18	Was Member of committee for paper presentation in EEE Dept. ONITD	-	<i>[Signature]</i>
12.	1021100210	18	Participated in sports in Underclassmen.org, College, Andhra Pradesh and Was Kho-Kho rep.	-	<i>[Signature]</i>
13.	1021100212	18	Presented Paper at IC. Madras engineering college	-	<i>[Signature]</i>
14.	1021100218	17	Participated in Project Drive for the company DEVAE	-	<i>[Signature]</i>

S. No.	Roll No.	Marks	Extra Activities/Hackathons/ Membership Drive/Event Participation	NPTEL Course Completion Certificate	Student Signature
15.	1021100219	18	Participated in Sports meet of Underclassmen.org	-	<i>[Signature]</i>
16.	1021100220	18	Participated in paper presentation in EEE Dept. ONITD	-	<i>[Signature]</i>
17.	1021100221	17	-	-	<i>[Signature]</i>
18.	1021100222	16	-	-	<i>[Signature]</i>
19.	1021100223	17	Participated in sports in Underclassmen.org, College, Andhra Pradesh and Was player in Kho-Kho competition	-	<i>[Signature]</i>
20.	1115040001	20	Participated in workshop on Electric Vehicle Technology at ONITD	-	<i>[Signature]</i>
21.	1115040002	19	-	-	<i>[Signature]</i>
22.	1115040003	18	-	-	<i>[Signature]</i>
23.	1115040004	18	Participated in workshop on Electric Vehicle Technology at ONITD	-	<i>[Signature]</i>
24.	1115040005	18	Participated in workshop on Electric Vehicle Technology at ONITD	-	<i>[Signature]</i>
25.	1115040006	17	Participated in workshop on Electric Vehicle Technology at ONITD	-	<i>[Signature]</i>
26.	1115040007	16	-	-	<i>[Signature]</i>
27.	1115040008	16	-	-	<i>[Signature]</i>
28.	1115040009	16	-	-	<i>[Signature]</i>
29.	1115040010	16	-	-	<i>[Signature]</i>
30.	1115040011	16	-	-	<i>[Signature]</i>
31.	1115040012	17	-	-	<i>[Signature]</i>

Fig 9.1.A.12.1 Advanced Learners Students Report



Fig 9.1.A.12.2 certificate of student (20251A0221) participated in NASA international space app as a result of encouragement

9.1.A.13 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.A.13.1 shows the average CGPA of a student 19251A0285- G. Sai Pravalika from Sem I to Sem VII.

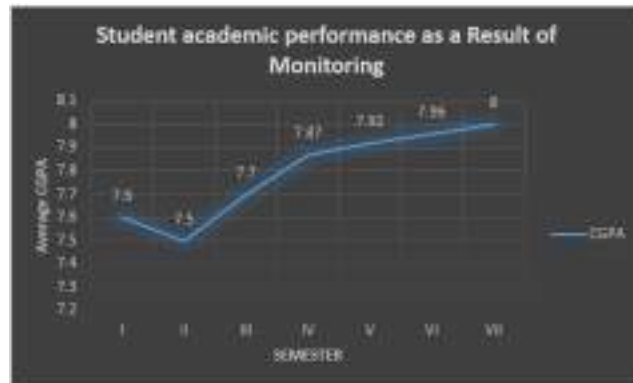


Figure 9.1.A.13.1 Academic Performance of student (19251A0285- G. Sai Pravalika)

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00

9.2A Methodology being followed for analysis of feedback and its effectiveness (5)**9.2.A1 Feedback collected for all courses: YES****9.2.A2 Feedback collection process:**

Feedback is collected for

1. Faculty (Both Interactive and Online Feedbacks are Collected).
2. Facilities (Outgoing Students feedback)

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.

9.2.A3 The Feedback is collected at two Levels:

1. **Interactive Feedback in Class Review Committee (CRC) Meeting**
2. **Online Feedback from all Students**

9.2.A4 Average percentage of students participate:

1. **Interactive Feedback = 100%** (Student Committee Members)
2. **Online Feedback = 100%**

Fig.9.2.A1 shows the feedback schedule of CRC meeting and online feedback in academic calendar.

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(AUTONOMOUS) FOR WOMEN
SHAIKHUPET, HYDERABAD-500104

ACADEMIC CALENDAR (2023-2024)

II. B. Tech-I Sem

Commencement of 1 st Semester Class Work	11-09-2023
1 st Spell of Instructions	11-09-2023 To 11-11-2023 (9 Weeks)
1 st 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	22-10-2023 to 28-10-2023(1 Week)
Overall Staff performance Review	30-10-2023 to 04-11-2023
First Mid Term Examinations	13-11-2023 to 15-11-2023 (1 Week)
First Mid Marks Submission	23-11-2023
Student Midterm Feedback (Online)	20-11-2023 to 25-11-2023
2 nd Spell of Instructions	20-11-2023 to 13-01-2024 (8 Weeks)
Counselling for students	04-12-2023 to 09-12-2023
2 nd Class Review meeting	26-12-2023 to 30-12-2023
Second Mid Term Examinations	17-01-2024 to 21-01-2024 (1 Week)
Second Mid and Consolidated Marks Submission	25-01-2024
Lecture Diaries Verification	22-01-2024 to 27-01-2024
Counselling for students	22-01-2024 to 27-01-2024
Preparation & Practical Examinations	22-01-2024 to 27-01-2024 (1 Week)
Student Semester Feedback (Online)	22-01-2024 to 27-01-2024
End Semester Examinations	29-01-2024 to 10-02-2024 (2 Weeks)

Fig. 9.2.A1. Academic Calendar with Class Review Meeting Schedule

9.2.A5 Feedback through CRC Meetings

CRC emphasizes on Subject delivery, Understanding Concept, Syllabus completion, Classroom facilities and any other general problems.

9.2.A6 Constitution of CRC:

- Head of the Department (HoD) or Incharge 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

9.2.A7 Procedure for Conduction of Class Review Committee Meetings(CRC):

- HoD will Convene the meeting, Dean Academics is invited for the meet.
- 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 will attend the meet.
- Based on the students' feedback from CRC meeting, corrective actions are taken by the HoD
- The Minutes of the meeting are forwarded to the Dean Academics within 2 days after the meeting.

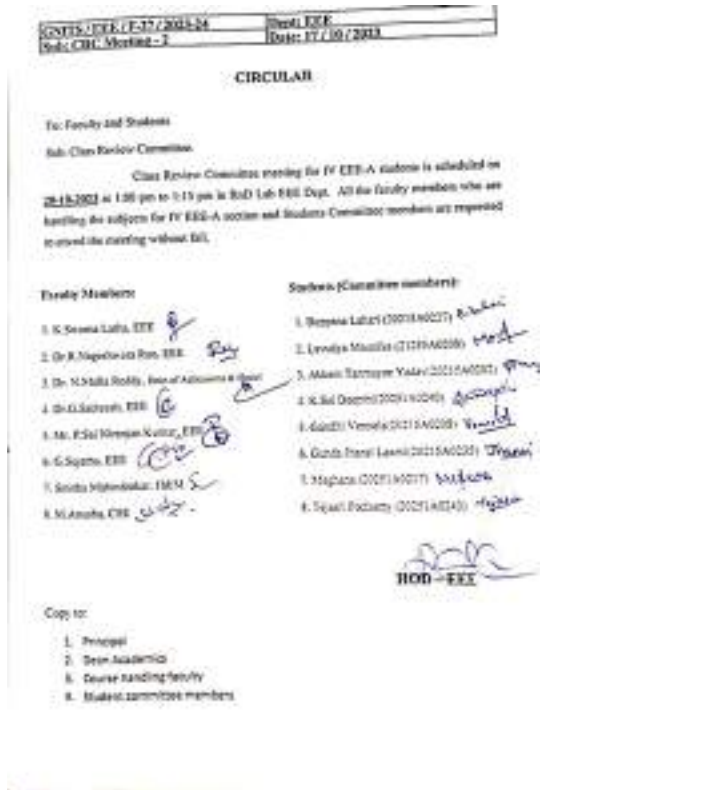


Fig. 9.2.A7.1. CRC Meeting Circular



Fig. 9.2.A7.2. Minutes of CRC Meeting

9.2.A8 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.



Figure. 9.2.A8.1 Student online feedback login page

9.2.A9 Measuring quality of teaching & learning:

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:

9.2.A10 FeedBack Calculation:

Maximum Score = 13*4 = 52 (13 Indices and 4 is maximum score for each criterion.)

$$\text{Feedback \%} = \frac{\text{Total Score Obtained by a Faculty}}{\text{Maximum Score}} \times 100$$

Feedback %	Verdict
------------	---------

>85%	Excellent
76% to 85%	Good
61% to 75%	Satisfactory
<60%	Needs to Improve

9.2.A11. Basis of Reward: Feedback is considered as one of the Assessment Criteria for Faculty Appraisal. Faculty members who not only achieve a 100% pass rate among their students but also garner outstanding online feedback are duly acknowledged and appreciated by the authorities and management for their exemplary teaching efforts.

This feedback is considered as one of the assessment criteria for faculty appraisal

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE (For Women)

FEED BACK RESULT

Faculty Name: Mrs.K.Vidhyan Lakshmi

Degree : B.Tech Department : ETM Year : 4
Semester : I Section : A Date : 2023-12-04

SUBJECT: WASTE MANAGEMENT TECHNIQUES AND POWER GENERATION

S.NO.	PARAMETERS	POINTS
1	Teachers command over the subject.	3.58
2	Did the teacher help in understanding concepts and principle	3.71
3	Teachers Communication skills.	3.77
4	Teachers enthusiasm about teaching.	3.73
5	Did the teacher give examples.	3.8
6	Did the teacher cover all the units with required importance.	3.66
7	Availability of teacher outside the class.	3.73
8	Interaction with the students during the session.	3.71
9	Teachers ability in controlling the class.	3.77
10	Punctuality of teacher in engaging the class.	3.77
11	Standard of Assignment for learning subject.	3.74
12	Discussion of solutions to question papers, assignments and typical questions.	3.69
13	Overall rating of teacher.	3.74
AGGREGATE		48.51

FINAL FEEDBACK: 93.3% EXCELLENT

Please go through it carefully. In case you have not been able to do very well in certain aspects, please concentrate on them and see that you do well in those aspects also in the next semester/year. In this connection, if you think you need any help from the institution, please feel free to contact me any time.

With best wishes,

(Dr. K. Ramesh Reddy)
PRINCIPAL
8/12/23

Received
[Signature]

Fig. 9.2.A11.1. Online Feedback Form of faculty



Fig. 9.2.A11.2 Sample copy of faculty appreciation for 100% pass result

B. Record of Corrective measures Taken(5)

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 will be required to submit a written explanation.
 - Faculty members who get less than 75% Feedback will also be required to attend Faculty Development Programs (FDPs) on Pedagogical Methods to improve their Teaching Skills.

SNTT00-111/2024/001

G. NARAYANASWAMI INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)

FEEDBACK SHEET

Faculty Name: **TIRUMA RENDU** Design: **B.Teach** Department: **EEE**
 Year: **I** Semester: **I** Class: **CSD-0**
 Date: **30/03/24** SUBJECT: **Basic Electrical Engineering**

S.NO.	PARAMETERS	POINTS OBTAINED
1	Teacher's conceptual cover of the subject	2.50
2	Did the teacher help in understanding concepts and principles?	2.24
3	Teacher's Communication skills	2.49
4	Teacher's enthusiasm about teaching	2.88
5	Did the teacher give examples?	2.27
6	Did the teacher cover all the units with required importance?	2.27
7	Accessibility of teacher outside the class	2.44
8	Interaction with the students during the session	2.78
9	Teacher's ability in conducting the class	2.50
10	Punctuality of teacher in engaging the class	2.41
11	Standard of Assignment for learning subject	2.34
12	Discussion of solutions to question papers, assignments and typical questions	2.37
13	Overall rating of teacher	2.52
AGGREGATE		31.89

FINAL FEEDBACK: **SATISFACTORY**

Please go through it carefully. In case you have not been able to do very well in certain aspects, please concentrate on them and see that you do well in those aspects also in the next semester / year. In this connection, if you think you need any help from the institution, please feel free to contact me at any time.

With best wishes,

(Dr. K. Ramesh Reddy)
 PRINCIPAL

*Received
 Smt. Sreeraj*

Fig. 9.2.B.1. Feedback Form with "Satisfactory" Result

Date: 29-06-2021
Hyderabad

To:
The Principal,
GNITS,
Shaikpet, Hyderabad.

Subj: Explanation about subject feedback- Reg.

Respected Sir,

I Dr. Harabindu T, Assistant Professor, Dept. of EEE, have handled EEE subject for 1 year I Sem CSD session from 27th Dec 2020 to 27th March 2021. Feedback of this subject is as follows:

Branch	No. of Students	Feedback
CSD	69	61.21% (Satisfactory)

In the feedback form, S1 No. 2 i.e., 'Did the teacher help in understanding concepts and principles' received less points from CSD students. As it was online classes, live interaction with the students was not sufficient. Later the subject topics notes sent to the students before Mid-I and Mid-II examinations. More no. of the students scored above 55 marks in both Mid I and II examinations. I tried my best to teach the subject. I consider this and make few more best improvements in my classroom teaching for the betterment of the students.

Thanking You
Yours Sincerely,

Dr. Harabindu T
Assistant Professor,
Dept. of EEE, GNITS,
Shaikpet, Hyderabad

→ Answered to improve the teaching
→ use the examinations, Model etc
→ give some extra more no. of questions
→ give homework & discuss the same

N. M. N. N. N. N.
29/6/21

Fig. 9.2.B.2 Letter written by the Faculty as an Explanation for “Satisfactory” Feedback.

Figure 9.2.B.3 shows the faculty attending FDP to enhance their teaching skills.



Fig.9.2.B.3 Faculty attended FDP on “Teaching and Learning Strategies For Engineering Education” under IQAC cell GNITS

Figure 9.2.B.4 shows feedback Summary of courses taught by EEE faculty in the assesment period 2020-24:



Fig. 9.2.B.4. Faculty Feedback Summary for the assesment period 2020-24

9.2.B.1.Number of corrective actions taken:

Number of faculty falling under Corrective Actions Taken to address the cases of “Needs to Improve and Satisfactory” in Online Feedback

Table 9.2.B.1 Number of faculty corrective actions

S.No.	Academic Year	Number of Corrective actions Taken
1	2023-24	16
2	2022-23	18
3	2021-22	14
4	2020-21	9

9.3 Feedback on facilities (5)

Total Marks 5.00

A. Feed Back Collection , Analysis and Corrective Action (5)**9.3.1 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 Sample Copy of Outgoing Student Feedback form is shown in Figures 9.3.1.1 & 9.3.1.2.

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.

OUT GOING STUDENTS FEEDBACK

(I. Programme Institute of Technology & Science - for women)

OUT GOING STUDENTS FEEDBACK		DEPARTMENT: CEE
Personal Details Name: <u>Shalini S. Suresh</u> Branch: <u>CE</u> Roll No. Address: <u>PL2510044</u> <u>3/21-19, Talaj Street, Kalyandurg</u> City: <u>Hyd.</u> State: <u>Andhra Pradesh, 508004</u> Contact Phone No: <u>8302551104</u> E-Mail ID: <u>Shalini.suresh14@gmail.com</u>	Year Academic Performance I Year: <u>7.10</u> II Year: <u>7.10</u> III Year: <u>8.10</u> IV Year I Sem: <u>7.05</u> Aggregate: <u>7.10</u>	

Competitive Exams Written:

GATE: Yes/No Result: <u>No</u>	GRE: Yes/No Result: <u>No</u>	TOEFL: Yes/No Result: <u>No</u>
IES: Yes/No Result: <u>No</u>	CAT: Yes/No Result: <u>No</u>	ANY OTHERS Result: <u>No</u>

Curricular Activities (Mark in Institution/University)

--	--

Co-curricular Activities: Paper Presentation/Work Shop/Workshop/Seminar/Training/Misc Projects etc.

ii. In Inter-Departmental Competitions:

Name of the Activity: <u>Open - poster making</u>	Recognition Award received, if any: <u>1st Rank, Technical paper, annual, certificate</u>

iii. In Inter-Institutional Competitions:

Name of the Activity: <u>Open - poster making</u>	Recognition Award received, if any: <u>1st Rank, Technical paper, annual, of 2nd</u> <u>Technical competition by four colleges</u> <u>Hyderabad</u>

Fig.9.3.1.1. Sample Copy of Outgoing Student Feedback form

Campus interviews attended

Name of the company	Product	Doc.	Activities
Selected (Yes/No)	Yes	Yes	Yes

Any Key Position held in the College (CB/Association representatives etc)

• Exchange Club Representative (ICR) • App/On, activities, 2021/22
 • President of THESSA • College Committee member, 2021/22, 2022/23
 Your suggestions / Remarks on:

Faculty	Supportive & approachable
Labs	Good, up-to-date
Environment	Friendly
Library	Friendly, 24/7 access
Campus	Beautiful, should be improved, more trees added
Sports & Games	Challenging
Discipline	Well thought & implemented
Training & Placement	Good
DESA	Supportive
Exam Centre	Well implemented
YOUR IMPRESSION about the college (in one sentence)	A place which provides holistic development for a girl to make an A WOMAN

Would you recommend this college to other students / relatives? Yes/No

If yes, in your opinion what are the positive aspects?
 Supportive faculty, pleasant staff, facilities, technical level

If no, what are the aspects, which make you not to recommend?

Signature & Date

Fig.9.3.1.2. Sample Copy of Outgoing Student Feedback form

9.3.2 Summary of Feedback on Faculty

Fig. 9.3.2.1 shows the analysis of Feedback on Faculty.

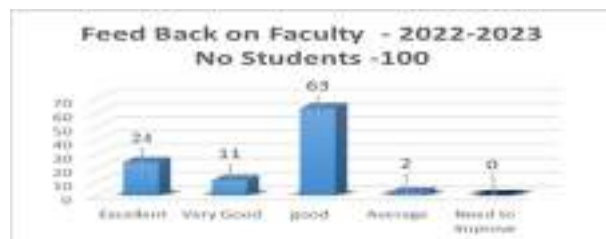


Fig.9.3.2.1. Summary of Feedback on Faculty for 2022-2023

It was observed that:

- 98% students are very much satisfied with the faculty and their competency available in the Institution.
- Only 2% of students expressed dissatisfaction on this aspect.

Action Taken: Since the overall feedback was very much satisfactory, no actions were contemplated.

9.3.3 Summary of feedback on Labs

Fig.9.3.3.1 Provides the Feedback on Labs.

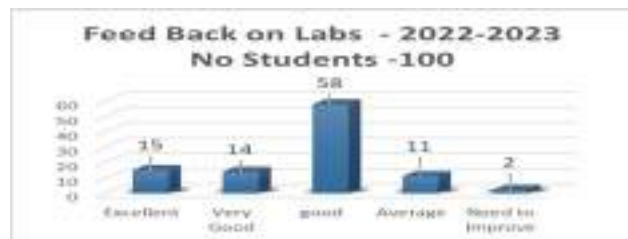


Fig.9.3.3.1 Summary of Feedback on Labs 2022-2023

It was observed that :

- 98% students are very much satisfied with the labs that are available in the Institution.
- Only 2% of students expressed dissatisfaction on this aspect.

Action Taken: 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.

9.3.4 Summary of feedback on Environment

Fig.9.3.4.1 represents the Feedback on Environment.

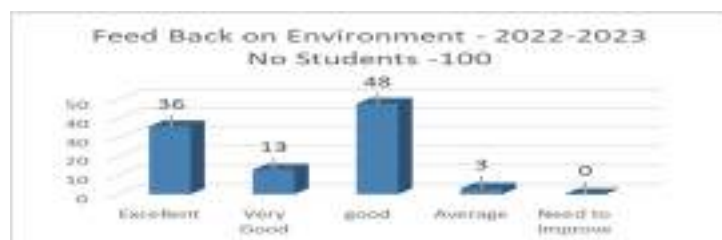


Fig.9.3.4.1. Summary of Feedback on Environment

It was observed that:

- 97% students are happy with the overall environment prevailing in the Institution.
- Only 3% students expressed the need for improvement.

Action Taken: Since the percentage of dissatisfied students is very less no concrete action was contemplated.

9.3.5 Summary of feedback on Library

Figure 9.3.5.1 provides the students Feedback on Library.

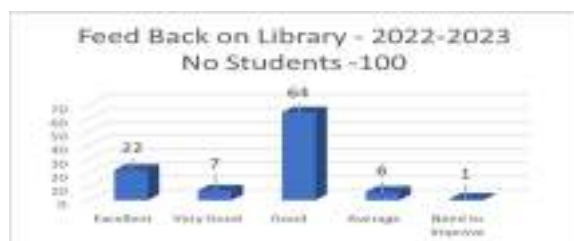


Figure 9.3.5.1 Summary of Feedback on Library 2022-2023

It was observed that :

- 93% students satisfied with the facilities and books that are available in the College Library.
- Only 7% of students expressed dissatisfaction through their suggestions.

The suggestions along with actions taken are given below:

1. More issue copies of text books should be added

Action Taken: Corrective action: Number of volumes were increased considerably.

9.3.6 Summary of feedback on Canteen

Fig.9.3.6.1 depicts student feedback on Canteen.

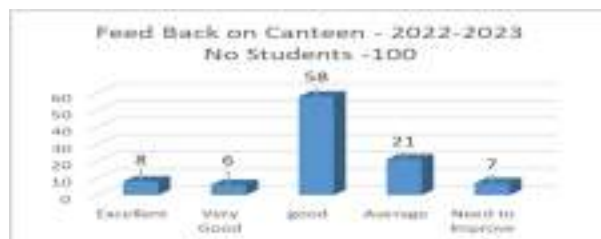


Fig. 9.3.6.1. Summary of Feedback on Canteen in 2022-2023

- 72% students are satisfied with the Canteen facilities.
- 28% 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.

Action Taken: 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.

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.

9.3.7. Summary of Feedback on Sports and Games:

Figure 9.3.7.1 shows the students feedback on sports and games.



Fig.9.3.7.1. Summary of Feedback on Sports and Games

It was observed that :

- 91% students are very much satisfied with the Sports & Games department available in the Institution.
- Only 9% of students expressed dissatisfaction on this aspect.

Action Taken: Since the number of dissatisfied students is very less no action was needed.

9.3.8 Summary of feedback on Disciplinary aspects:

Fig.9.3.8.1 presents feedback on discipline.



Fig.9.3.8.1 Summary of Feedback on Disciplinary Aspects

It was observed that:

- 95% students are very much satisfied with the Disciplinary aspects that are in force in the Institution since beginning.
- 5% of students expressed dissatisfaction on this aspect.

Action Taken: Since the number of dissatisfied students are very less no further action was needed.

9.3.9 Summary of feedback on Training & Placement:

Fig.9.3.9.1 shows outgoing student feedback on Training and Placement.



Fig.9.3.9.1. Summary of Feedback on Training and Placement

It was observed that:

- 90% students are very much satisfied with the Training & Placements in the Institution.
- 10% of students expressed dissatisfaction on this aspect.

Action Taken: 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.

9.3.10 Summary of feedback on Office:

Fig.9.3.10.1 shows outgoing student's feedback on Office.

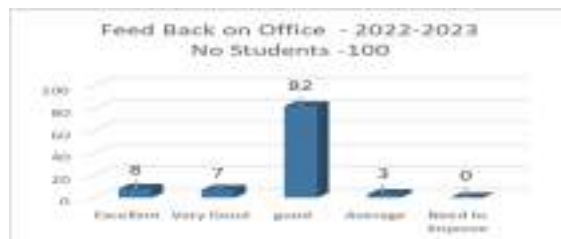


Fig.9.3.10.1 Summary of Outgoing Students' Feedback on Office

It was observed that :

- 97% students are very much satisfied with the Office in the Institution.
- 3% of students expressed dissatisfaction on this aspect.

Action Taken: Since the number of dissatisfied students are very less no action was needed.

9.3.11 Summary of feedback on Exam branch:

Fig.9.3.11.1 depicts the Feedback on Exam Branch.

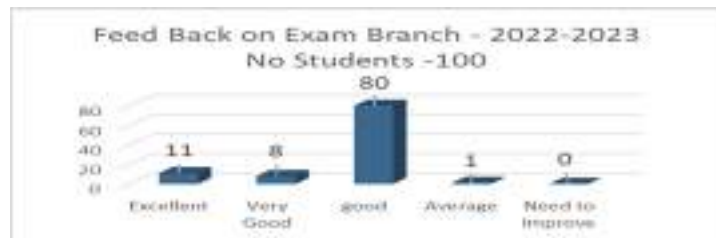


Fig.9.3.11.1 Summary of Feedback on Exam Branch

It is observed that:

- 99% students are very much satisfied with the Exam branch in the Institution.
- 1% of students expressed dissatisfaction on this aspect.

Action Taken: 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:

S.No	Infrastructure / Facility	Previous Assessment period	Current Assessment Period
1	Faculty	Faculty with Ph.D. = 44	Faculty with Ph.D. = 76
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	No of Labs	57	63
7	Training & Placement	1. Training was imparted to only 3 rd year students 2. % placements = 62.39% 3. Average No of companies = 52 4. Highest package = 27 lacs/annum 5. Average package = 5.13 lacs/annum	1. Training was imparted to both 2 nd & 3 rd year students. Java advanced & web technologies were introduced to 2 nd year students. 2. % placements = 76.6% 3. Average No of companies = 78 4. Highest package = 46.5 lacs/annum 5. Average package = 7.04 lacs/annum

8	Library	<p>Titles: 9254 Volumes: 43116 Print Journals: 113 e-journals IEEE (ASP APCK) DELNET</p> <p>Fine collection process: Slow</p>	<p>Titles: 9687 Volumes: 45203 Print Journals:115 e-Journals IEEE (ASP pack), IEEE (All POPs), DELNET, J- GATE, Knimbus Remote access, Turnitin Plagiarism Check.</p> <p>Fine collection process: Fast (Provision of QR code)</p>
9	Canteen	<ol style="list-style-type: none"> 1. Hygiene – good but inadequate. 2. Food: Limited varieties 3. Seating Capacity: Limited due to shortage of space 	<ol style="list-style-type: none"> 1. 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. 2. Quality of food and Variedness – More varieties of food items were introduced in the menu while ensuring that the quality was not compromised 3. 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

A. Scope for self-Learning (2)

All subjects in the syllabus book are provided with standard online resources for students 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, IELTS, 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:

9.4.A1 Classroom Presentation:

Encouraging students to prepare and present a topic from the curriculum or any latest technology. As figure 9.4.A1.1 shows the student gone through e-resources for the given assignment topic and presenting the topic in class.



Figure 9.4.A1.1 Student R.Nehanjali (20251A0217) presenting assignment topic on Static Synchronous Series Compensator from the subject Power Quality & Facts.

9.4.A2 Utilisation of time for e-resources for students:

In the class time table, specific time is allotted for students to visit central library of the college. During this period student can go through different text books for different subjects of EEE to understand the concepts after discussion in the class, for preparation of competitive exams, for doing projects, writing technical papers etc. Below picture shows the time table of III years showing library period.

GNITS		GNITS-E/EEE/CIW/011/09					
TIME TABLE SEMESTER		DEPARTMENT : EEE					
Academic year: 2023 - 24							
Branch: EEE		Year: III B.Tech. EEE-B, Semester - II		Class Room No. 111 - 2		W.E.E: 19/02/2024	
Periods	1	2	3	4	5	6	
Time / Day	9:00 - 10:00	10:00 - 11:00	11:00 - 12:10	1:00 - 2:00	2:00 - 2:50	3:00 - 4:00	
MON	EAHV	PE	OE-2	FM	LIBRARY	SPDC	
TUE	FM	MPMC	PE	PE LAB/MPMC LAB/ SEMINAR (B1 - B7 - B2)			
WED	MPMC	FM	EAHV	PLACEMENT TRAINING			
THU	PE	EAHV	MPMC	PE LAB/MPMC LAB/ SEMINAR (B2 / B3 / B1)			
FRI	PE LAB/MPMC LAB/ SEMINAR (B3 / B1 / B2)			OE-2	MINOR DEGREE		
SAT	PE (T)	MPMC (T)	OE-2	MINOR DEGREE		LIBRARY	
Subject	Faculty Name	Name of the Lab		Faculty Name			
Fundamentals of Management (FM) (Course Code: EE11007)	Mrs.E.Prasanna, BM	Power Electronics Lab (Course Code: PE11001) (PE Lab)		Ch. Geetha Krishna, PUSNA Parvathi (E), Thara V. Pranjana (E)			
Microprocessors and Microcontrollers (Course Code: PE11002) (MPMC)	Mrs.E.Gouthami	Microprocessors and Microcontrollers Lab (Course Code: PE11003) (MPMC Lab)		E. Gouthami, S.Chaitanya			
Power Electronics (PE) (Course Code: PE11001)	Mr.Ch.Leela Krishna	Seminar (Course Code: FW11052)		Respective Guides			
Electric & Hybrid Vehicles (PE-2) (Course Code: PE11007)	Mrs.K.V.Sowmya	Database Management Systems (OE-2) (Course Code: OE11008) (DBMS)		Mrs.Ch.Sowah, CSE			
Behavioral Skills & Professional Communication (OE-2) (NSA/PC) (E11004a) (Course Code: OE11005) (NSA/PC)	Mrs.Elizabeth Kavitha, HS	SPDC (SPDC Centre, 2nd Floor, Admin Block)		Mrs.B.Hirebala, BM			
Project Batch (B1)		Project Batch (B2)		Project Batch (B3)			
Class Teacher: Mrs.K.V.Sowmya							
Dept. Timetable Coordinator							

Figure. 9.4.A2.1 time table showing library hour for utilising e-resources

The following are the Self-Learning resources used by the students of GNITS:

Resources Provided for Self-learning

- SWAYAM
- NPTEL
- MOOC's
- NDLI
- MIT open courseware
- Coursera
- Web / Video Learning, Sonet Video Lessons
- Lecture Capturing System
- Youtube videos of faculty

9.4.A3 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.A3.1 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/](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/VISHWANATH/Downloads/%0dhttps://onlinecourses.nptel.ac.in%20)

Table 9.4.A3.2. List of NPTEL Courses Enrolled by Students in 2022-2023

S.No.	Engineering Discipline	Name of Course & Date	No. of Student Enrolled
1	Electrical and Electronics Engineering	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink (July-Dec 2022)	3

2	Electrical and Electronics Engineering	An Introduction to Programming through C++ (July-Dec 2022)	12
3	Electrical and Electronics Engineering	Analog Electronic Circuit (July-Dec 2022)	16
4	Electrical and Electronics Engineering	Artificial Intelligence : Search Methods for Problem Solving (July-Dec 2022)	2
5	Electrical and Electronics Engineering	Basic Electric Circuits (July-Dec 2022)	25
6	Electrical and Electronics Engineering	Bioenergy (July-Dec 2022)	1
7	Electrical and Electronics Engineering	Body Language: Key to Professional Success (July-Dec 2022)	1
8	Electrical and Electronics Engineering	C Programming and Assembly Language (July-Dec 2022)	9
9	Electrical and Electronics Engineering	Calculus of One Real Variable (July-Dec 2022)	6
10	Electrical and Electronics Engineering	Computational Electromagnetics (July-Dec 2022)	1
11	Electrical and Electronics Engineering	Contemporary Architecture and Design (July-Dec 2022)	1
12	Electrical and Electronics Engineering	Control engineering (July-Dec 2022)	4
13	Electrical and Electronics Engineering	Control systems (July-Dec 2022)	2
14	Electrical and Electronics Engineering	Data Base Management System (July-Dec 2022)	12
15	Electrical and Electronics Engineering	Design Thinking - A Primer (July-Dec 2022)	1
16	Electrical and Electronics Engineering	Developing Soft Skills and Personality	3
17	Electrical and Electronics Engineering	Developing Soft Skills and Personality (July-Dec 2022)	2
18	Electrical and Electronics Engineering	Digital Signal Processing (July-Dec 2022)	5
19	Electrical and Electronics Engineering	E-Business (July-Dec 2022)	1
20	Electrical and Electronics Engineering	Electrical Distribution System Analysis (July-Dec 2022)	5
21	Electrical and Electronics Engineering	Electrical Machines (July-Dec 2022)	28

22	Electrical and Electronics Engineering	Electrical Machines - I (July-Dec 2022)	78
23	Electrical and Electronics Engineering	Electrical Measurement and Electronic Instruments (July-Dec 2022)	43
24	Electrical and Electronics Engineering	Energy Conservation and Waste Heat Recovery (July-Dec 2022)	1
25	Electrical and Electronics Engineering	Engineering Mechanics (July-Dec 2022)	1
26	Electrical and Electronics Engineering	Ergonomics in Automotive Design (July-Dec 2022)	1
27	Electrical and Electronics Engineering	Ethical Hacking (July-Dec 2022)	3
28	Electrical and Electronics Engineering	Fundamentals of Electric Drives (July-Dec 2022)	3
29	Electrical and Electronics Engineering	Fundamentals of Electrical and Electronics Engineering (July-Dec 2022)	14
30	Electrical and Electronics Engineering	Game theory (July-Dec 2022)	1
31	Electrical and Electronics Engineering	Higher Engineering Mathematics (July-Dec 2022)	1
32	Electrical and Electronics Engineering	Innovation, Business Models and Entrepreneurship (July-Dec 2022)	1
33	Electrical and Electronics Engineering	Integral Transforms and their Applications (July-Dec 2022)	1
34	Electrical and Electronics Engineering	Introduction to Internet of Things (July-Dec 2022)	1
35	Electrical and Electronics Engineering	Introduction to Machine Learning (July-Dec 2022)	3
36	Electrical and Electronics Engineering	Introduction to Mechanobiology (July-Dec 2022)	1
37	Electrical and Electronics Engineering	Introduction to Programming in C (July-Dec 2022)	23
38	Electrical and Electronics Engineering	Machine Learning for Engineering and Science Applications (July-Dec 2022)	1
39	Electrical and Electronics Engineering	Mapping Signal Processing Algorithms to Architectures (July-Dec 2022)	1
40	Electrical and Electronics Engineering	Mathematical Finance (July-Dec 2022)	1
41	Electrical and Electronics Engineering	Microelectronics: Devices to Circuits (July-Dec 2022)	1
42	Electrical and Electronics Engineering	Nanotechnology in Agriculture (July-Dec 2022)	1

43	Electrical and Electronics Engineering	Numerical methods (July-Dec 2022)	2
44	Electrical and Electronics Engineering	Numerical Methods and Simulation Techniques for Scientists and Engineers (July-Dec 2022)	1
45	Electrical and Electronics Engineering	Object oriented analysis and design (July-Dec 2022)	1
46	Electrical and Electronics Engineering	Op-Amp Practical Applications: Design, Simulation and Implementation (July-Dec 2022)	1
47	Electrical and Electronics Engineering	Positive Psychology (July-Dec 2022)	1
48	Electrical and Electronics Engineering	Power Electronics (July-Dec 2022)	5
49	Electrical and Electronics Engineering	Power System Analysis (July-Dec 2022)	15
50	Electrical and Electronics Engineering	Problem Solving through Programming in C (July-Dec 2022)	27
51	Electrical and Electronics Engineering	Programming in C++ (July-Dec 2022)	5
52	Electrical and Electronics Engineering	Programming In Java (July-Dec 2022)	13
53	Electrical and Electronics Engineering	Programming, Data Structures and Algorithms Using Python (July-Dec 2022)	3
54	Electrical and Electronics Engineering	Python for Data Science	5
55	Electrical and Electronics Engineering	Quantum Computing (July-Dec 2022)	1
56	Electrical and Electronics Engineering	Sensors and Actuators (July-Dec 2022)	2
57	Electrical and Electronics Engineering	Technologies for clean and renewable energy production (July-Dec 2022)	1
58	Electrical and Electronics Engineering	The Joy of Computing using Python (July-Dec 2022)	6
59	Electrical and Electronics Engineering	Toyota Production System (July-Dec 2022)	1
60	Electrical and Electronics Engineering	Training of Trainers (July-Dec 2022)	1
61	Electrical and Electronics Engineering	Working Capital Management (July-Dec 2022)	1
TOTAL			413

Table 9.4.A3.3 List of Mentors for NPTEL Courses completed by Students in academic year 2023-24 I semester:

S.No.	Name of the Course	Name of the Mentors
1	Control Engineering	<u>Mrs.P.Mamta</u>
2	Electrical Measurement And Electronic Instruments	<u>Mrs.Y.Priyanka</u>
		<u>Mrs.K.V.Soumya</u>
3	Electrical Machines - I	<u>Mrs.E.Gouthami</u> <u>Mr.P.Bhaji babu</u>
4	The Joy of Computing using Python	<u>Mrs.P.Tejaswi</u>
5	Programming In Java	<u>Mrs.Suma deepthi veeraganti</u>
6	Problem solving through programming in c	<u>Mr.Ch.Jeelakrishna</u>
7	Introduction to Machine learning	<u>Mrs.P.Mamta</u>

The students who completed NPTEL courses with "ELITE and SUCCESSFULLY COMPLETED" are shown in Table 9.4.A3.4

Table 9.4.A3.4 Few certificates of NPTEL courses attended by students, in assessment year 2020-24:

Sl. No.	Name of the Student	Name of the Course	Course Duration	Score	Type of Certificate
1	B.Anvitha Reddy (21251A0266)	The joy of computing using python	Jul –Oct 2022	70%	Elite
2	Thatipelli ashriitha (21251A0287)	Problem solving through programming in C	Jul-Oct 2023	62%	Elite
3	B.Anvitha Reddy (21251A0266)	Problem solving through Programming in C	Jul –Oct 2022	77%	Elite
4	Sadadi Shruthi (20251A0290)	The joy of computing using Python	Jan-Apr 2022	70%	Elite
5	Yellu Sharanya (21255A0214)	The Joy of Computing using Python	Jan-Apr 2022	73%	Elite
6	Thummakomma Tejasree (21251A02C0)	Problem Solving Through Programming In C	Jan-Apr 2022	60%	Elite
7	K. Lavanya (21251A02A9)	Problem solving through programming in C	Jan-Apr 2023	52%	Successfully completed
8	Batte Bindu (21251A0267)	Problem Solving Through Programming In C	Jan-Apr 2022	55	Successfully completed
9	Kanthi raghavapeta sindhuja (21251A0243)	Control systems	Sep-Dec 2020	57%	Successfully completed



Figure 9.4.A3.4.1 Sample copy of student Nptel course certificate

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/>)

COURSERA: Coursera is a U.S.-based unlimited online learning platform that has access to learning course and Professional Certificates you can earn a certificate for every Learning Programme that you have completed. www.coursera.org (<http://www.coursera.org/>)

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/>)

Table 9.4.A3.5 shows list of online courses completed by students assessment period 2020-2023:

s.No	Full Name	Course Name	Date	certificate
1	Saneella sreenidhi	Artificial Intelligence	10/10/2023	1
2	Nishan bhanga	Artificial Intelligence	30/06/2023	1
3	Sanneella sreenidhi	Mega Cancer Screening camp - FSW Project	-	1
4	Havanika gatla ravikumar	Foundations of Prompt Engineering	19/03/2024	1
5	Chalamalasetti sai rishitha	Embedded Systems with Arduino & IoT Integration	20/02/2024	3
6	Shreya agrawal	Embedded Systems with Arduino & IoT Integration		
7	Gatla ravikumar havanika	Embedded Systems with Arduino & IoT Integration		

8	Shreya agrawal	Python (Basic)	08/03/2024	1
9	Patlolla snehalatha Reddy	Machine learning with data science	11/03/2024	1
10	Gatla ravikumar havanika	HIEE All India Scholarship Test	07/01/2024	1
11	P.Mounika 20251A0267	MATLAB Onramp	28 /10/2023	1
12	P.Mounika 20251A0267	Introduction to HTML	4/01/2024	1
13	P.Mounika 20251A0267	Introduction to Python	31/12/2023	1
14	P.Mounika 20251A0267	Python basics	6/11/2023	1
15	Ch.Sai Sreeja 20251A0249	Python Basics	6/11/2023	1
16	GUNDEBOINA NAGA MALLIKA 20251A0256	Basics of HTML	1/7/2023	1
17	Aparnaa K 20251A0257	Python Basics	6,/11/2023	1
18	Aparnaa K 20251A0257	Basics of python	18/8/2023	1
19	P.Vaishnavi 20251A0266	Python basics	7/11/2023	1
20	Vinuthna Kairika 20251A0258	Python Basics	6/11/ 2023	1
2022-2023				
21	Ch.Sai Sreeja 20251A0249	E learning course on self charged hybrid electric vehicle	10/5/2023	1

22	Ch.Sai Sreeja 20251A0249	Test Automation	March 2023 to August 2023	1
23	GUNDEBOINA NAGA MALLIKA 20251A0256	Basics of java	9/9/2022	1
24	P.Vaishnavi 20251A0266	Basics of python	October 22 2022	1
25	P.Vaishnavi 20251A0266	Test Automation	March 2023 to August 2023	1
26	Putta Mounika 20251A0267	Test Automation	March 2023 to August 2023	1
2020-2021				
27	Ch.Sai Sreeja 20251A0249	Introduction to C++	March 2021 to October 2021	1
28	GUNDEBOINA NAGA MALLIKA 20251A0256	Introduction to C++	March 2021 to October 2021	1
29	K.APARNAA 20251A0257	Introduction to C++	March 2021 to October 2021	1
30	Vinuthna Kairika 20251A0258	Introduction to C++	March 2021 to October 2021	1
Total				30

B.The institution needs to specify the facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs ec,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.

9.4.B Impartus Lecture Capture-Better Learning Through Video

Impartus video holds 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. Figure 9.4.B shows picture from impartus video for EMF subject for EEE Ilyr I Sem.



Figure 9.4.B EMF Subject for II Year Impartus Video of Problems on Bio Savarts Law

9.4.B1 Value Added Courses:

Value added courses are provide by the department to enhance the knowledge of students so that the weightage for their resume increases. This helps to get the job easily on/off campus.

List of value added courses for each academic year is shown in table 9.4.B1

Table 9.4.B1 value added courses from 2020-23

Name of the course/programme	Course/programme Code (if any)	Mode of the Course-offered by the HEI or Online (Specify the platform like MOOCS, SWAYAM, etc.)	Year of offering /Year of enrolment	Contact hours of course	Number of students enrolled in the year	Number of Students completing the course in the year
Value Added Course on Electric Vehicle Technology	GNITS/EEE/VAC/2022-23/01	offline	2022-23	50	167	167
Design of Digital Circuits using Verilog HDL	GNITS/EEE/VAC/2021-22/01	offline	2021-22	50	15	15
Value added course on Electric Vehicle Technology	GNITS/EEE/VAC/2021-22/02	offline	2021-22	50	57	56



Fig. 9.4.B1.1 Sample copy of value added course completion certificate of student

9.4.B2 List of Webinars Conducted:

Webinars are conducted in department/institution for students and faculty to enhance the technical knowledge in courses and for better preparation of competitive exams. Table 9.4.B2.1 shows list of webinars conducted.

Table 9.4.B2.1 List of webinars conducted:

Academic Year	Date	Title of Webinar	Resource Person	Online/Offline	Number of Participants
2023-24	18-12-2023	Silicon carbide power conversion system for industrial applications	Dr. Xu She, Lunar Energy Mountain View, California	Online	38
2023-24	15-09-2023	MBA@CUNY's Barunch College: Make Wall Street Your Classroom	1. Dr. Helaine Korn 2. Annie Himmelsbach 3. Simon Harley	Online	26
2020-21	26-9-2021	Digital Wellness	1. Rijul Arora, Digital Wellness advocate and speaker, 3times TEDEX speaker 2. Ritom Gupta, full stack web developer 3. Rainar Angelo, Digital wellness advocate	Offline	10

2020-21	10-7-2021	Gate way- an ultimate guideline to crack gate	1.Ms.Prathyusha Sirisilla, Gate 2020 Score:798 &EC Rank:161 2.Ms.Amulya Pendota, GATE 2020 score:607 & EC Rank:1135 & IN Rank:1274	Offline	12
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9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

9.5 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 CDC helps students assess their interests, skills, and goals, thus providing invaluable clarity on potential career objectives.

Functions and responsibilities of CGC

- 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.

Composition of CGC is shown in Table 9.5.1

Table 9.5A.1. Composition of CGC

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, 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

9.5. B. Counseling for higher studies (GATE/GRE, GMAT, etc.) (2)

Career Guidance cell provides Counseling for higher studies for aspiring students.

List of CGC Activities is shown in Table 9.5B.1

Table 9.5.B.1(a). List of Activities under CGC

S. No.	Date	Topic	Resource Person	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
Academic Year 2021-22				

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, Hyderabad.	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, 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 and 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

Academic Year 2022-23				
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 "	1. Dr. M V N K Prasad, Associate Professor, IDRBT , Hyderabad. 2. Dr. S Rashmi Dev, AGM HR, IDRBT , Hyderabad.	748
4	11-05-2023	Career Guidance and Higher Studies	Mr. S. Manimohan Trinath, GATE/ESE Trainer, ACE Engg. Academy, Hyderabad.	762

Table 9.5.B.1(b). List of Activities under CGC in EEE Department:

S. No.	Date	Topic	Resource Person	Number of EEE Participants
1	10 – 08 – 2020	Awareness program on program on GATE Examination	Mr. Kranthi Kumar Course Director GATE TIME, Hyderabad	36
2	11 – 08 – 2020	Awareness program on program on GRE Examination	Mr. Siva Sankar Sr Manager Business Development, Telangana Manya Princeton Review, Hyderabad	1
Academic Year 2021-22				
1	23 – 09 – 2021 & 24 – 09 – 2021	"All About Study Abroad & GRE, IELTS Preparation"	Mr. Wajendra. T, Head – Academics, Gradeway Prep, Hyderabad.	132
2	26 – 11 – 2021	"Global Study and Career Opportunities"	Mrs. Reshmy Vijay, Director , Education Matters, Global Education & Careers Forum, Hyderabad.	65

3	10 – 12 – 2021	“ Career Guidance and Overseas Opportunities”	Ms. Usmath Fyaz, Manager, UK, Global Tree, Hyderabad.	106
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, SI-UK, Hyderabad	12
6	23 – 03 – 2022	"Careers in Higher Education",	Dr.Krishna Sudheer Annavajjala, Professor, HoD, MBA, KL University, Hyderabad.	18
7	12 – 04 – 2022 and 21 – 04 – 2022	"Crack IAS"	Mr. Rohith Komma, Course Director, IAS Academy, Hyderabad.	75
8	03 – 06 – 2022	“Career Guidance Program on Civil Services”	Sri Narasimha Reddy, Dy. Director, Forest College and Research Institute(FCRI), Hyderabad.	21
Academic Year 2022-23				
1	22 – 09 – 2022	“Powering your Global Education Dream”	Ms. Shilpa Bansal, Head – Academics, Gradeway Prep, Hyderabad.	123
2	03 – 03 – 2023	“Global Study and Job Opportunities”	Mr. Samiran Roy, Manager – Institutional Counselling Services, Global Education & Careers Forum, Hyderabad.	97
3	16 – 03 – 2023	“Banking Technology and a Headstart ”	1. Dr. M V N K Prasad, Associate Professor, IDRBT , Hyderabad. 2. Dr. S Rashmi Dev, AGM HR, IDRBT , Hyderabad.	68
4	11-05-2023	Career Guidance and Higher Studies	Mr. S. Manimohan Trinath, GATE/ESE Trainer, ACE Engg. Academy, Hydeabad.	127

Students are encouraged for higher studies abroad with the tie up of Grad Right start up company in GNITS.

9.5.B2. GRAD RIGHT(Start-up Company):

Grad Right is an EdF in Tech start-up based in Hyderabad that offers students data-driven, personalised recommendations for Master's programs abroad and offers ways to fund them through their education loan bidding platform. Grad Right's on-line tools and apps are completely free to use for students.

The Anti Dote, a study abroad cell powered by Grad Right.

9.5.B2.1. Mission of Anti Dote

1. A study abroad cell exclusively for GNITS students, powered by Grad Right. The Antidote is **anti-commissions**, **anti-counselors** and **anti-bias**.
2. Harnessing the power of tech, data and community, members will choose the smarter way to study abroad, rejecting the notion that they need to pay study abroad counsellors or agents exorbitant fees to navigate their Master's abroad journey.

Any third or final year GNITS student interested in pursuing her Master's abroad is welcome to apply for membership.

9.5.B2.2 BENEFITS OF GRAD RIGHT:

- Step-by-step support to achieve your Masters abroad ambitions
- Free master-classes by top university professors from Ivy Leagues and more
- Networking events with foreign university admissions teams, students, alums
- Student mentors, alums from QS Top 500 universities
- Statement of Purpose (SOP) writing workshops
- Free financial advisory, guidance during education loan process
- Scholarships worth ₹200,000 to study abroad
- Free mock visa interviews with experts
- Pre-departure orientation sessions, setting up bank accounts abroad, help looking for accommodation and much more

Table-9.5.B2.1 List of Events Conducted under Grad Right (Antidote Club)

S.No	Date	Activity/Event name	Resource person	EEE Students Registered
1	17 th August 2023	Antidote Club -Alumnae Interaction		39
2	1 st September 2023	Crafting a winning SOP by	Dr.Anannya Dasgupta Director,CWP, krea university	7
3	21 st September, 2023	Understanding University Selection for MS Abroad	Phanindra MTDS Lead Student success Grad right	6
4	22 nd September 2023	MBA & MS in Business Analytics Programs Abroad	Mr. Hasil Gora Higher education abroad expert india representative, university of Miami	3
5	19 th October 2023	Interaction with Dr. Hari Natarajan, Vice Dean, Miami Herbert Business School	Dr. Hari Natarajan, Vice Dean, Miami Herbert Business School	0
6	31 st October 2023 online	Funding your Masters in US/Abroad	Shivani mani, Alum IIM Ahmedabad Lead, Student Success, GradRight	2

9.5.C Pre-placement training (3)

The Training & Placement Cell plays an integral role in creating the illustrious placement record of GNITS.

- ensures smooth functioning of the placement activities in the campus.
- facilitates training activities of the students and makes sure they get placed in the best companies.
- provides personal and career-oriented support to its students.
- enables the students to effectively cope-up with academics at college and for successful careers after graduation.
- 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 with special emphasis on experiential learning in the training process. In this regard, the Institute 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.

9.5C.1Campus Placements and Highest Packages

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 Telangana and Andhra Pradesh region.

9.5C.2 Objectives of Training and Placement Cell:

1. To Facilitate career opportunities for students by bridging the gap between academia and industry.

2. To Employ a student-centric approach to fulfil corporate expectations within the college.
3. To Diligently expand the Institute's corporate network throughout the academic year.
4. To Enhance placement opportunities for students through proactive networking efforts.
5. To Implement an all-inclusive placement training program starting from the first semester.
6. To Integrate placement training seamlessly with mainstream studies.
7. To Focus on developing industry-ready skills and competencies among students.

9.5C.3 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. The 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.

9.5C.4 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.

9.5C.5 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.

Placement Training Activities are listed in Table 9.5C.1.

Table 9.5C.1(a). List of Placement Training Activities

Sl.No.	Name of the Program / Event	Resource Person	Date	Duration	Number of Participants
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	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	1st April 2021 to 23rd Dec 2021	40 Hours	110
Academic Year 2021-2022					
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	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	12/5/2021	120 Hours	198
5	C and Data Structures (for 2nd Year EEE & ETE)	Ms.Ashritha, Bytext India Pvt Ltd., Plot 98B/146, Sonthalia Pearl Building, Madhapur, Hyderabad	11/25/2021	100 Hours	179

Academic Year 2022-2023

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

Table 9.5C.1(b). List of Placement Training Activities in EEE Department:

Sl.No.	Name of the Program / Event	Resource Person	Date	Duration	Number of EEE Participants
Academic Year 2020-21					
1	Campus Recruitment Training – Quantitative Aptitude, Logical Reasoning, Verbal,C&DS and JAVA	Mr. Mohamed Abudullah, Mr.Shasank,Mrs.Deep thi, Conduiraonline Education & Training Services, Hyderabad	10-11-2020	120 Hours	3
2	Advanced Algorithms and Data Structures training Program	Mr. Aneeq Dholakia and Mr.Devang Sharma, Edyst Training Services, Hyderabad	22-09-2020	100 Hours	2

5	C & DS. Algorithms. Introduction to Web Technologies	Mr.Jalandhar, Technical Trainer, COIGN Consultants Ltd	05-12- 2022	120 Hours	413	3	Women Empowerment Program, ICT Academy- DXCT Technology – Soft Skills	Suchithra P.R, Robotics Engineer at TechieMan Technologies	1st April 2021 to 23rd Dec 2021	40 Hours	26
Academic Year 2021-2022											
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	2
2							Advanced Algorithms and 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	2
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	1
4							Basics of C, C++ and Java (for 2nd Year ECE)	Ms. Mubeena, Cantilever Labs, T- HUB Catalyst Building, IIIT Hyderabad	12/5/2021	120 Hours	3
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	56
Academic Year 2022-2023											

1	Advanced Algorithms and 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	-
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	-
3	Java, SQL and Aptitude (for 3rd Year EEE & ETE)	Ms.Aashritha, Technical Trainer, Byte XL India Pvt Ltd	09-11-2022	120 Hours	76
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	-
5	C & DS. Algorithms. Introduction to Web Technologies	Mr.Jalandhar, Technical Trainer, COIGN Consultants Ltd	05-12-2022	120 Hours	20

9.5.D Placement Process and Support(3):

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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.

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9.5D.2 Objectives of Training and Placement Cell:

1. To Facilitate career opportunities for students by bridging the gap between academia and industry.
2. To Employ a student-centric approach to fulfil corporate expectations within the college.
3. To Diligently expand the Institute's corporate network throughout the academic year.
4. To Enhance placement opportunities for students through proactive networking efforts.
5. To Implement an all-inclusive placement training program starting from the first semester.

6. To Integrate placement training seamlessly with mainstream studies.

7. To Focus on developing industry-ready skills and competencies among students.

9.5D.3 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. The 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.

9.5D.4 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:

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Roles & Responsibilities of committee members:

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- 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.

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 academic year 2020 to 2023, GNITS 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 GNITS graduates in the job market.

Expanding Corporate Engagement:

Furthermore, the number of companies visiting the campus for recruitment drives has shown a notable upward trend. With each passing year, GNITS has attracted an increasing number of reputed organizations seeking to hire talented individuals from various disciplines.

Surge in Median Salary Offers:

In tandem with the rise in placement numbers, there has been a substantial increase in the median salary offered to GNITS students. Employers recognize the value of GNITS graduates and are willing to offer competitive compensation packages, reflecting the caliber and skills nurtured within the institution.

Commitment to Excellence:

These positive trends in placements underscore GNITS 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.

Looking Ahead:

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.

PLACEMENT STATISTICS INSTITUTE LEVEL

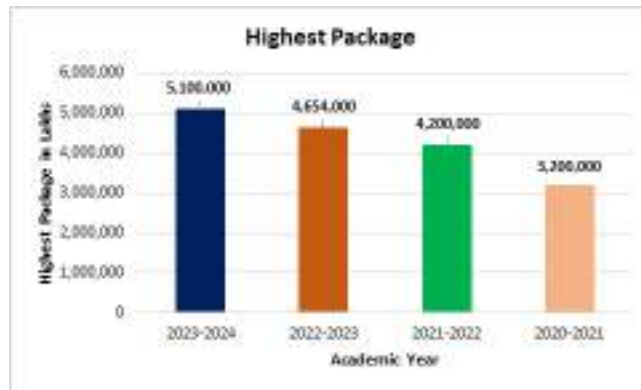


Fig: 9.5D.4.1(a) Highest Package in Placements

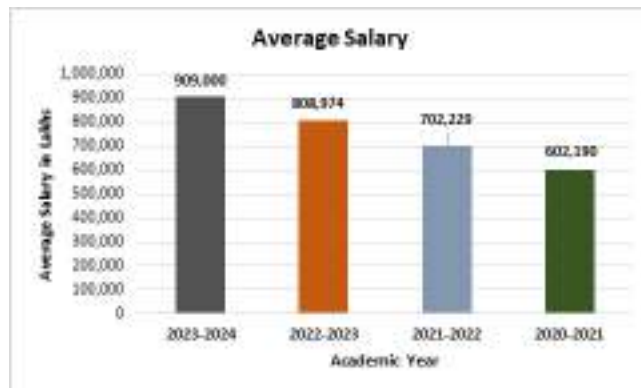


Fig: 9.5D.4.2(a) Average Salary in Placements



Fig. 9.5D.4.3(a). No. of Students Placed

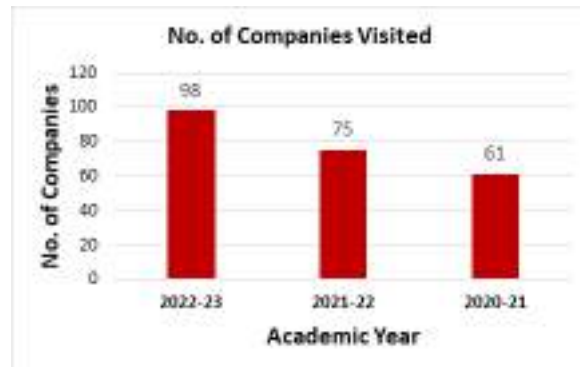


Fig. 9.5D.4.4(a) No. of Companies Visited for Campus Placements

PLACEMENT STATISTICS DEPARTMENT LEVEL

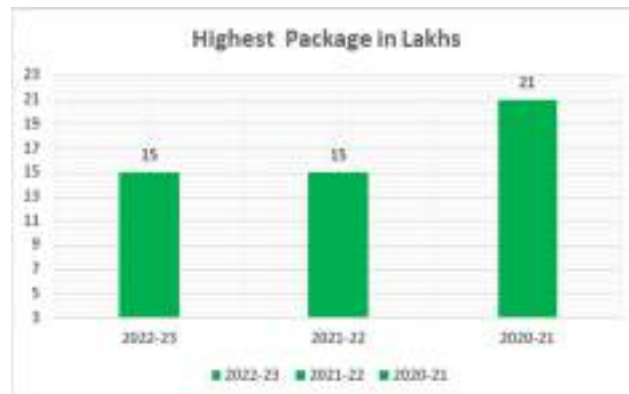


Fig: 9.5D.4.1(b) Highest Package in Placements



Fig: 9.5D.4.2(b) Average Salary in Placements

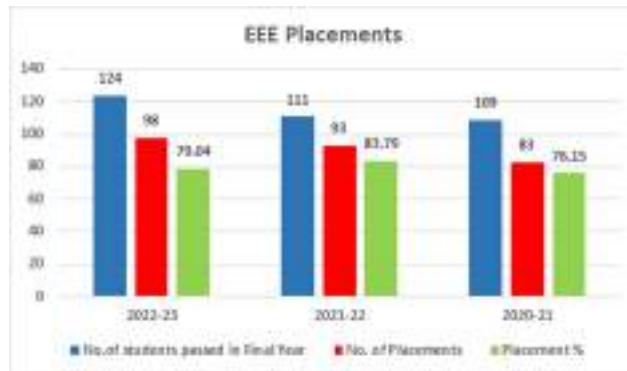


Fig. 9.5D.4.3(b). No. of Students Placed

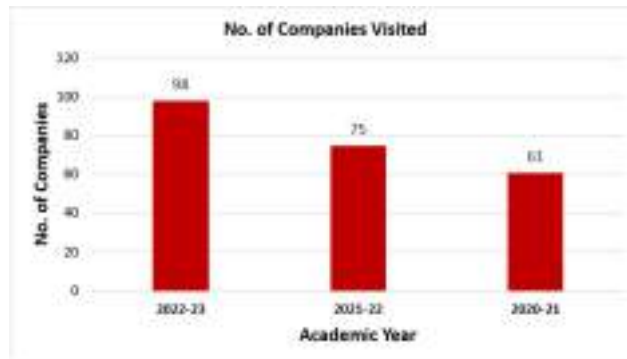


Fig. 9.5D.4.4(b) No. of Companies Visited for Campus Placements

9.6 Entrepreneurship Cell

Total Marks 5.00

9.6.A Entrepreneurship initiatives (3)

In a rapidly evolving global economy, Entrepreneurship Development Cells play a pivotal role in nurturing entrepreneurial talent, fostering innovation, and contributing to economic growth.

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.

9.6.A.1 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, Hackwithinfy, 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.

9.6.A.2 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.

9.6.A.3 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 start-ups in Deeptech, ICT and sustainability.

9.6.A.4 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.

9.6.A.5 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 start-ups 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)

Table 9.6A.5 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 9.6A.1 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	No. of EEE student Participants
1	30 th Aug., 2020	Online Group Discussion on Entrepreneurship	EDC Coordinators, GNITS	182	45
2	18 th Sept., 2020	How to Take Off Your Startup	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	79	20
3	7 th - 8 th 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	20
4	10 th May, 2021	Start-up Incubator Session	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	123	16
5	29 th Oct., 2021	Student Startups	Mr. Meraj Faheem, Founder & CEO, EdVenture Park, Hyderabad	265	27
6	30 th Oct., 2021	Manthan Hackathon	Organized by the Bureau of Police Research and Development in association with MIC-AICTE	30	3

7	12 th 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	25
8	29 th Dec., 2021	Idea pitching competition and Student Entrepreneur Talk	Mr. Kartheek Thatikonda, Head-Marainxt Innovation Center, Hyderabad	103	17
9	16 th March, 2022	SIH-2022 Internal Hackathon	Dr. A. Sharada, Professor, GNITS Dr. Raj Kumary L. B. Dr. G. Malini Devi	100	10
10	26 th 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	4
11	16 th 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	16
12	1 st 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	21

13	1 st August, 2022	Design Thinking	Mrs. P. M. S. Hallika, Asst. Prof., Mech. Dept., GNITS Ms.N.Hiranmai, Asst. Prof., Mech. Dept., GNITS	120	12
14	10 th Oct., 2022	Research Methodology & IPR	Dr. V. Vijaya Lakshmi, Asst. Prof., H&M dept., GNITS	35	5
15	21 st – 22 nd 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
16	6 th Dec., 2022	Design Thinking, Critical Thinking and Innovation Workshop	Mrs. Sakuntala Kasaragadaa, Incubation Head, GNITS	90	9
17	2 nd 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	25
18	25 th Jan., 2023	Toycathon	Dr. S. Ramcharan, HOD, IT Dr.G.Malini Devi, Assoc. Prof., CSE	22	3

19	8 th – 9 th Mar., 2023	Women in Business (Women Leadership Conclave)	<p>1. Aruna Dara, Managing Director, Apna Green Products</p> <p>2. Mallika Valluru - Co-Founder & MD, Radius EduTech</p> <p>3. Nanditha Sethi - Founder & MD- The Entrepreneur Zone, Startup Mentor, Tedx speaker.</p> <p>4. 4. Vanitha Datla, Vice Chairperson & Managing Director, Elico Ltd.</p> <p>5. Anuradha Kanchi - Principal strategist, Avtar The Power of Diversity</p> <p>6. Panneerselvam Madanagopal - CEO, Technogen, India</p> <p>7. Sahithi Divi – CEO, Soul of Swadesh</p> <p>7. Praveen Dorna – Co founder, SocioHub</p> <p>8. Kavitha Natarajan - Senior CSR Professional, CGI</p> <p>9. Vyshali Sagar - Startup Ramp India lead, Amazon Web services</p> <p>10. Sahitya Anumolu - Co-founder, Inquilab Foundation</p>	150	2
20	21 st June, 2023	Orientation session on Successful Entrepreneurs	<p>Ms. Pavani Lolla, Founder of Futurstep Enterprises</p> <p>Ms. Aruna Dara, Founder of Apna Green Products</p> <p>Ms. Lakshmi Haritha Bhavani, Founder of Ancient Foods</p>	900	52
21	24 th June, 2023	Design Thinking Workshop	Mr. Vaibhav, Senior UX Designer at ADP	300	12


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9.2 B Data on students benefitted


(2)

Entrepreneurs from Department of

EEE:

S.N O.	NAME	BATCH	ORGANISATION	PHOTO
1.	Samyuktha Dudyala	2018-2022	Start-up / name: SD consultancy pvt Ltd.	

2	K. Sindhuri	2018-2022	DTDC (direct to distributor to clients)	
3	D Prathima	2014-2018	Managing Director, Sri kanuka durga filling station (HPCL Dealer, palpanoor village,Sangareddy	
4	Jaswee Banoth	2014-2018	Event Manager, started a MYTHRI PILX company, Hyderabad related to the photography	
5	Sravya	2009-2013	Product Manager, Maya Bazar studio, Hyderabad	
6	Anusha Reddy	2009-2013	Director, Maya Bazar studio, kadapa	
7	Srujana	2005-2009	Founder of SRU Makes Handmade soaps and bath accessories and gift hampers	

8	Harshitha Kilarapu	2016-2020	Founder of Label_by_HK & find unique style in western wear & traditional wear dresses	
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9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

A. Availability of sports and cultural facilities (3)**9.7.A1 Sports Facilities****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.

9.7.A1.2 Infrastructure- Sports:

i. Outdoor Facilities: Figures 9.7.A1.1(a) and 9.7.A1.2(b) shows the outdoor facilities as listed below

- 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



Figure 9.7.A1.2(a) Sports Ground



Figure 9.7.A1.2(b) Fitness Wing

ii. Indoor Facilities: Figures 9.7.A1.2(c), 9.7.A1.2(d) and 9.7.A1.2(e) shows the indoor facilities as listed below

- 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



Figure 9.7.A1.2(c) Yoga Hall

Figure 9.7.A1.2(d) Gym



Figure 9.7.A1.2(e) Indoor Sports

iii. Sports Coaching Programmes:

GNITS has been organizing sports coaching programmes is shown in figure 9.7.A1.2(f) 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 Badminton disciplines by experienced coaches.



Figure 9.7.A1.2(f) Coaching Programs to Students

9.7.A1.3 Milestone of Sports EEE department:

- Dhamanika – II EEE (Roll No. 22251A02A8) secured Second Runner up in the IFA World tour Fistball National Ranking Championship held from 29th to 31st May 2023 at Pushpagiri, Tamilnadu.
- Dhamanika – II EEE (Roll No. 22251A02A8) secured First Runner up in the 7th Senior National Fistball Championship held at Dindigul, Tamilnadu on 26th and 27th October 2023.

Below table, 9.7.A1.3.1 shows the list of EEE student’s sports achievements for the academic year 2023-24

Table 9.7.A1.3.1 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.	20251A0233	G.Tejaswi	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Godlavalleru Engineering College
3.	21251A0228	S.Meenakshi	4x100mRelay	Team	National level	Winners	18 to 20 Nov 2023	Godlavalleru Engineering College
4.	20251A0233	T.Tejaswi	Kho-Kho	Team	National level	Runners	20 to 22 Nov 2023	Sreenidhi Institute of Science and Technology,
5.	20251A0278	T.A.L Sravani	Throw ball	Team	State level	Winners	21 to 23 Nov 2023	Vardhaman College of Engineering
6.	21251A0228	S.Meenakshi	4X100 mts Relay	Team	National level	Runners	1 to 3 Feb 2024	Vignan University
7.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	15 &16 Feb 2024	Mahindra University
8.	20251A0278	T.A.L Sravani	Throw ball	Team	National level	Winners	21 Feb 2024	KL University
9.	21251A0228	S.Meenakshi	100 mrts	Singles	National level	Runners	19 Feb 2024	KL University
10.	20251A0278	T.A.L Sravani	Throw ball	Team	National level	Winners	23 & 24 Feb 2024	BVRIT
11.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	28 & 29 Feb 2024	Cvr
12.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	28 & 29 Feb 2024	VJIT
13.	20251A0278	C.Hari Sahithi	Throw ball	Team	State level	Winners	12 & 23 March 2024	JBIT

Below table, 9.7.A1.2 shows the list of EEE student's sports achievements for the academic year 2022-23

Table 9.7.A1.3.2 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.	21251A0262	Anjali	Volleyball	Team	State level	Winners	14 & 15 Aug 2022	BHEL, Hyderabad
2.	20251A0245	P.Sri Lakshimi	Kho Kho	Team	National	Winners	25th&26NOV2022	G N I T S
3.	21251A0228	S.Meenakshi	100m RUN	Single	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad
4.	20251A0233	G.Tejaswi	800 m Run	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
5.	21251A0228	S.Meenakshi	4x100mRelay	Team	State	Winners	11 & 12 Jan 2023	L.B Stadium, Hyderabad

6.	20251A0233	G.Tejaswi	4x400mRelay	Team	State	Winner	11 & 12 Jan 2023	L.B Stadium, Hyderabad
7.	21251A0263	A.Alekhya	Short Put	Single	State	Runner	11 & 12 Jan 2023	L.B Stadium, Hyderabad

Below table, 9.7.A1.3 shows the list of EEE student's participation in sports activities for the academic year 2022-23.

Table 9.7A1.3.3 Sports Activities conducted during the Academic Year 2022-2023

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	GNITS	580

Below table, 9.7A1.4 shows the list of EEE student's sports achievements for the academic year 2021-22.

Table 9.7.A1.3.4 Sports Achievements during the Academic Year 2021-2022

S.No	Roll No	Name of the Student	Name of the Sports	Team/Individual	State/National/International	Award	Date	Venue
1.	18251A0237	Janet Angela E	Basketball	Team	National	Runners	1 st and 2 nd June 2022	VNR Vignan Jyothi Institute of Engineering and Technology, Hyderabad
2.	18251A0233	B. Navya	Volleyball	Team	National	Winners	8 th to 11 th June 2022	Sreenidhi Institute of Science and Technology, Hyderabad
3.	21251Ao228	S. Meenakshi	Kho Kho	Team	National	Winners	16 th to 18 th June 2022	Vignan's Institute of Management and Technology for women, Hyderabad.
4.	21251A0262	Anjali	Volleyball	Team	National	Winners	16 th to 18 th June 2022	Vignan's Institute of Management and Technology for women, Hyderabad.

5.	21251Ao228	S. Meenakshi	200 Mts. Run	Individual	National	Winners	16 th to 18 th June 2022	Vignan's Institute of Management and Technology for women, Hyderabad.
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Below table, 9.7.A1.5 shows the list of EEE student's participation in sports activities for the academic year 2021-22.

Table 9.7.A1.3.5 Sports Activities Conducted during the Academic Year 2021-2022

S.NO	Event Organized	Resource Person	Date	Duration	Venue	Number of participants	Number of EEE participants
1.	Mini Sports Fest	Principal Dr. K. Ramalinga Reddy.	15-12-2021 to 30-12-2021	15 Days	GNITS	300	58
2.	Yoga for Wellness- Webinar	Yogacharya Brij Bhushan Purohith-Namasthe Yoga foundation Hyderabad. Dr.D.Jyothi-Associate Profressor,National Sanskrit University,Tirupathi	12-06-2022	1 Day	online	324	48
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	24
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	11
5.	Azadi Ka Amrit Mahotsav Celebrations	Principal Dr. K. Ramalinga Reddy	15/8/2022	1 Day	Ground,GNITS	500	98



Figure 9.7.A1.3(a) Sample copy of Student participation in kho-kho **Figure 9.7.A1.3(b) Sample copy of Student participation in basketball**



Figure 9.7.A1.3(c) Sample copy of Student participation in inter college sports fest 2022

The below figure 9.7.A1.4 shows the glimpses of various events and activities under sports department.



Figure 9.7.A1.4 Glimpses of Various Events and Activities Conducted in Annual Sports meet-Verve 2022

9.7.A2 Cultural Facilities

- 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, showcase 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 are the list of student clubs and which show a glimpse of their activities.

9.7.A2.1 Samskruthi- GNITS cultural Club

Samskruthi – GNITS cultural club

Soaring Beyond Boundaries



Figure 9.7.A2.1(a) Samskruthi club logo

- **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.

- 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
- 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.
- The club organizes a series of flagship events, featuring mini-fests that embody the festive spirit throughout the academic year.
- 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 Samskruthi's efforts, providing a grand stage for students to exhibit creativity, skills, and cultural pride.



Figure 9.7.A2.1.1(b) Deccan Project performance: Silver Jubilee-2023



Figure 9.7.A2.1.1(c) Pottery work shop



Figure 9.7.A2.1.1(d) K-POP stall : Asteria-2023

9.7.A2.2 Literaria Clava-GNITS literary club



Figure 9.7.A2.2.1(a) Literaria Clava club logo

- **Literaria Clava**-GNITS literary club 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.



Figure 9.7.A2.2 Literaria Clava Student body(2022-23) and club Activities

9.7.A2.3 Artista-GNITS Arts Club

ARTISTA

YOUR PASSION OUR PLATFORM



Figure 9.7.A2.3.1(a) Artista club logo

- **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.
- 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.



Figure 9.7.A2.3.1(a) Artista Student committee



Figure 9.7.A2.3.1(b) Artista Club Activity

9.7.A2.4 Suswara

- **Suswara, the 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



Figure 9.7.A2.4.1(a) Performance of suswara team in campus



Figure 9.7.A2.4.1(b) performance of suswara team

9.7.A2.7 Cultural Events / Competitions: Below tables 9.7.A2.7, 1, 9.7.A2.7, 2 and 9.7.A2.7, 3 shows the number of cultural events conducted and number of students participated.

Table 9.7.A2.7.1 shows the list events conducted during the AY: 2023-2024

S.No	Name of the Event	Date	Number of Participants	Number of EEE Participants
1	Book Mark 'ed (Lit Coven)	14 th July 2023	40	9
2	Laddoo Hunt	15 th September 2023	150	19
4	Samosa with Samskruthi	15 th September,2023	17	5
5	Christmas Fest	28 th December,2023	140	34
6	Blind Date with a Book	28 th December 2023	50	9
7	Women Leadership Conclave -2024	6-3-2024 to 7-3-2024		250

Table9.7.A2.7.2 shows the list events conducted during the AY: 2022-2023

Sl.No	Name of the Event	Date	Number of Participants	Number of EEE Participants
1	Nirvana	15-10-2022	300	48
2	Miss GNITS	25-11-2022	34	7
3	Verve X GNITS	25-11-2022	740	82
4	Deccan project X GNITS	25-11-2022	2000	217
5	Women in Leadership Conclave -2023	7-3-2023 to 8-3-2023	1050	200

Table9.7.A2.7.3 shows the list events conducted during the AY: 2021-2022

S.No	Name of the event	Date	No.of participants	Number of EEE Participants
1.	Asteria 2021 (cultural mini fest)	24-08-2021	100	20
2.	Diwali 2021	01-11-2021	90	19
3.	Minifest 2021	18-12-2021	150	23
4.	Club Rendezvous	11-03-2022	50	9
5.	Asteria 2022 (cultural minifest)	06-05-2022	150	29
6.	Valedictory 2022 and Krithi Magazine Release	25-06-2022	50	8

9.7.A2.8 College Annual Day Celebrations:

- o **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.
- o 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.
- o 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.
- o 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.
- o 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.
- o 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.
- o 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.



Figure 9.7.A2.8.1 Cultural Activities performed on the Occasion of Silver Jubilee Celebrations



9.7.A2.8.2 Cultural Activities performed on Visit of Honourable President of India in Dec'2022

9.7 B.NCC, NSS and Other Clubs (3)

Under NSS these are the five 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) Rotaract
- (5) 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

9.7.B1.1 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.

NATIONAL SERVICE SCHEME (NSS)



Figure 9.7.B1.1 NSS logo

9.7.B1.1(a) 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.

The tables 9.7.B1.1, 9.7.B1.2 and 9.7.B1.3 gives the number of activities conducted under NSS in last years 2020-23

Table 9.7.B1.1 NSS activities conducted during: 2022 – 2023

Event dates	Name of the event	Organized by	Organized at	Number of participants
28-11-2022	Awareness program on rural development	Aware Group	GNITS	10
22-12-2022	Blood Donation Camp	Rotary Club	GNITS	10
08-03-23	Free Medical Camp	Vijaya diagnostics	GNITS	12
24-03-2023	Blood Donation Camp		GNITS	10
03-06-2023	Awareness program Narcotic drugs & its Adverse effects	JNTUH & TSCHE	JNTUH	11

Table 9.7.B1.2 NSS activities conducted during: 2021 – 2022

Event dates	Name of the event	Organized by	Organized at	Number of participants
07-04-2022	Blood Donation Camp	Red cross Society	GNITS	11
08-04-2022	Free Medical Camp	Vijaya Diagnostics	GNITS	10
18-04-2022	Haritha Haram	GNITS	GNITS	12

03-02-2022	Distribution of Beds to needy People	NSS GNITS		10
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Table 9.7.B1.3 NSS activities conducted during: 2020 – 2021

Event dates	Name of the event	Organized by	Organized at	Number of participants
18-08-2020 to 19-08-2020 (COVID 19 pandemic)	Distribution of Food	GNITS	ESIC hospital	12
08-07-2020 (after Lockdown)	Haritha Haram Organized at GNITS	GNITS	GNITS	10

9.7.B1.1(b) NSS activities conducted in academic year 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

Below figures 9.7.B1.1(b).1 and 9.7.B1.1(b).2 Shows the activities of NSS as part of silver jubilee year of GNITS

Figure 9.7.B1.1(b).1 Blood Donation Camp on 07th April 2022 at GNITS in collaboration with Red Cross Society, Vidyanagar, HyderabadFigure 9.7.B1.1(b).2 Haritha Haram programme on 18th April, 2022 at GNITS**9.7.B1.2 AARAMBH:**

- This is a dynamic personality development hub dedicated to nurturing the talents of students across diverse fields. With a mission to enrich skills and foster societal benefits,
- the club hosts the highly acclaimed “TED S-J Talks,” where brilliant minds converge to share profound ideas and ignite intellectual conversations by seniors.
- this remarkable journey of knowledge, innovation, and empowerment, where every voice finds its resonance and every idea sparks transformative change



Figure 9.7.B1.2 Aarambh club event

9.7.B1.3 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.



Figure 9.7.B1.3(a) Student committee of Abhaya(2022-23)



Figure 9.7.B1.3(b) Self-defence workshop by Abhaya.

9.7.B1.4 Rotract Club:



Figure 9.7.B1.4(a) Rotract club logo

- **The Rotract Club** of GNITS was established in 2014 in association with Rotract District 3150. Rotract GNITS is dedicated to promoting the Rotary International values of service above self, ethical leadership, and global citizenship.
- Rotract 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 Rotract 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 Rotract 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 Rotract and inspiring positive change in the world.



Figure 9.7.B1.4(b) Rotaract Club event



Figure 9.7.B2.3(b) Student committee of Rotaract club

9.7.B1.5 STREET CAUSE:

- Street Cause GNITS, a division of Street Cause Hyderabad, stands as a beacon of compassion in action.
- With a core belief that “A life without a cause is a life without an effect,” they strive to break the cycle of poverty and foster equity in society.
- Through donations, fundraising events, and multifaceted projects focused on orphanages, old age homes, women’s empowerment, hygiene, environmental conservation, and healthcare.
- Street Cause GNITS tirelessly uplifts the underprivileged.
- Their unwavering commitment reflects a profound belief that every individual deserves support, care, and opportunities for a brighter future.
- By inspiring others to join their cause, Street Cause GNITS embodies empathy and community spirit, striving to create a more equitable and hopeful world for all.



Figure 9.7.B1.5 Street Cause Activity “Mask Donation Drive.”

9.7.B2. Other Clubs: The below are the two clubs where ESEB is the exchange of tradition and AESC is all about energy conservation.

(1) Ek Bharat Shreshtha Bharat (EBSB)

(2) Aarushi Energy Swaraj Club (AESC)

9.7.B2.1 Ek Bharat Shreshtha Bharat (EBSB):

Objectives:

- To **CELEBRATE** the Unity in Diversity of our Nation and to maintain and strengthen the fabric of traditionally existing emotional bonds between the people of our Country.
- To **PROMOTE** the spirit of national integration through a deep and structured engagement between all Indian States and Union Territories through a year-long planned engagement between States.
- To **SHOWCASE** the rich heritage and culture, customs and traditions of either State and Union Territories for enabling people to understand and appreciate the diversity that is India, thus fostering a sense of common identity.

Ek Bharat Shreshtha Bharat (EBSB) programme aims to enhance interaction & promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. The states carry out activities to promote a sustained and structured cultural connection in the areas of language learning, culture, traditions & music, tourism & cuisine, sports and sharing of best practices, etc. The EBSB club of GNITS was introduced in December-2019. GNITS has been paired up with GURU GOVIND SINGH COLLEGE OF PHARMACY, HARYANA.

The following activities were conducted in the last three years as shown in below tables 9.7.B2.1, 9.7.B2.2, 9.7.B2.3 and 9.7.B2.4

Table 9.7.B2.1 List of events conducted in the year 2023

Jan 2023- Dec 2023			
S.no	Date	Event Name	Organised at
1	26 th Jan 2023	2K Freedom Run	GNITS
2	21 st Jan 2023	Kite Festival- Sankranthi Sambaralu	GNITS
3	28 th Jan 2023	EBSB Day Club Celebrations	GNITS
4	18 th June 2023	A National Webinar on Yoga for Wellness	GNITS (online)
5.	26 th June 2023	9 th International Yoga Day celebrations	GNITS
6	14 th Aug 2023	National Level Cultural Fest – 76 th independence day celebrations	GNITS
7.	22 nd -23 rd Sep 2023	Ganesh UTSAV	GNITS
8.	28 th -30 th Nov 2023	Yuva Sagam phase 3 Programme	Banaras Hindu University, Varanasi

Table 9.7.B2.2 List of events conducted in the year 2022

Jan 2022- Dec 2022 during COVID-19 pandemic			
S.no	Date	Event Name	Organised at
1	3 rd April 2022	Utsav-Mahotsav- Ugadi celebrations- A video presentation on Telugu new year celebrations to the staff and students of GGSCP, Yamuna Nagar,(paired state, Haryana.)	GNITS (online)
2	12 th June 2022	National webinar on Yoga for wellness	GNITS (online)
3	8 th October 2022	National Level Essay Writing Competition	GNITS (ONLINE)
4	8 th October 2022	A Short Film Contest on “Bathukama & Dusherra celebration	GNITS

Table 9.7.B2.3 List of events conducted in the year 2021

Jan 2021- Dec 2021 during COVID-19 pandemic			
S.no	Date	Event Name	Organised at
1	12 th -13 th June 2021	National webinar on Yoga for wellness	GNITS (online)

2	12 th August 2021	National-level virtual cultural fest with paired state	GNITS & GGSCP
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Table 9.7.B2.4 List of events conducted in the year 2020

Jan 2020- Dec 2020			
S.no	Date	Event Name	Organised at
1	2 nd - 11 th Jan 2020	Trip to Haryana- Cultural Exchange Program.	Sri Guru Govind Singh College of Pharmacy- Yamuna Nagar, Haryana
2	30 th June, 2020	Online National Level Inter college competition with paired state college presentation	GNITS
3	21 st June 2020	Webinar on Yoga for Wellness – International Yoga Day	GNITS

9.7.B2.2 Aarushi Energy Swaraj Club (AESC):

To create awareness about climate change and motivate all to take action to reduce climate change, Prof. Chetan Singh Solanki, IIT Bombay started the Energy Swaraj Foundation. As a part of creating awareness, the Energy Swaraj Yatra is started using Solar bus which is the heart of Energy Swaraj Movement planned to combine synergies of climate change mitigation efforts. The Yatra is planned across the country starting from November 2020 until December 2030, nearly 11 years long, to create Energy Swaraj as a public movement. As a part of Energy Swaraj Yatra, Prof. Chetan Singh Solanki along with his team visited GNITS on 24th February, 2022.

Motivation of the Club:

After the Visit of Prof. Solanki, Solar man of India, Energy Swaraj Club is initiated to spread the climate change awareness among the locals through GNITS on 16th March, 2022. Later it is named as Aarushi Energy Swaraj Club.

Vision: To create awareness about the climate change and motivate society towards energy conservation and achieve Energy independence by adopting Renewable based energy generation.

Mission: To Avoid the wastage of Energy, Minimise the usage of electricity, Generate the energy using Renewable energy sources to become energy independent.

The following events were organised in 2022-23 and 2021-22 as shown in below tables 9.7.B2.2.1 and 9.7.B2.2.2.

Table 9.7.B2.2.1 List of events conducted in the academic year 2022-23

2022- 2023			
S.no	Date	Event Name	Organised at
1	23 rd January 2023	Guest Lecture on “5 point Understanding of Climate Change and Corrective Actions”	GNITS
2	22 nd April 2023	World Earth Day-“World’s Largest Global Climate Clock Assembly and Display”	GNITS
3	14 th December 2023	Anantha Virya (Ideathon)	GNITS

Table 9.7.B2.2.1 List of events conducted in the academic year 2021-22

2021- 2022			
S.no	Date	Event Name	Organised at

1	24 th February 2022	Guest Lecture on "Energy Swaraj Yatra and creating awareness about the climate changes happening due to over usage of energy".	GNITS
2	24 th February 2022	Field visit solar based projects	Neknampur Lake, Manikonda
3	13 th June 2022	Logo Design Contest	GNITS
4	18 th June 2022	Energy literacy promotional stall	GNITS
5	21 st June 2022	Comic Design Contest- "Saving Energy Using Sustainable Solutions"	GNITS

- Below figure 9.7.B2.2.1 shows the energy swaraj solar yatra bus. The yatra is planned across the country starting from anaovember 2020 untill December 2030, nearly 11 years long, to create energy swaraj as a public movement.



Figure 9.7.B2.2.1 Solar Yatra bus at GNITS

- Energy Swaraj yatra through a solar bus is the heart of the energy swaraj movement planned to combine synergies of climate change mitigation efforts.
- The climatic clock is a graphic to demonstrate how quickly the planet is approaching 1.5 0C of global warming.
- A model of climate clock is displayed in the GNITS campus to create awareness about the climate change.
- Below figure 9.7.B2.2.2 shows the Global Climate Clock Assembly and Display as a part of world earth day..



Figure 9.7.B2.2.2 Event organised on World Earth day Global Climate Clock Assembly and Display .

Below figures 9.7.B2.2.3, and 9.7.B2.2.4 shows the places where Global Climate clock is displayed.



Figure 9.7.B2.2.3 Global Climate Clock Display near the main gate entrance



Figure 9.7.B2.2.4 Global Climate Clock Display in between EEE and CSE blocks

9.7 C Annual Student Activities (4)

Students are encouraged to participate in Webinars, Guest Lectures, Paper Presentations, Poster Presentations, Hardware Expo, Idea pitching, Hackathons etc. using the technical/Technical platforms like the professional bodies listed below.

1. Institute of Electrical and Electronics Engineers(IEEE)
2. Indian Society for Technical Education(ISTE)
3. Institution of Engineers (India)(IE(I))

9.7.C1 Institute of Electrical and Electronics Engineers(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** of G. Narayanamma Institute of Technology and Science (GNITS) was established in 2018 and has been a great platform for students to learn, network, and grow in their respective fields.

Student Branch ID: **GNITS STB 64991 Chapters of IEEE SB GNITS:**

GNITS have the following chapters/Affinity Group for the benefit of students.

- i. Women in Engineering (WiE)
- ii. Industrial Electronics Society (IES)

iii. Sensors Council

iv. Power Electronics society (PELS)

Below table gives the membership fee details for the chapters/affinity group in GNITS

Table 9.7.C1.1 IEEE MEMBERSHIP DETAILS

Chapter/Affinity Group Name	Type of Member	Amount in Dollars (\$)
IEEE	Professional Member	\$167
IEEE	Student Member	\$27
WiE	Professional Member	\$25
	Student Member	Free
Industrial Electronics Society (IES)	Professional Member	\$9
	Student Member	\$5
Sensors Council	Professional Member	Free
	Student Member	Free
Power Electronics Society (PELS)	Professional Member	\$20
	Student Member	\$10

List of events/activities conducted under IEEE for the last three years are listed below year wise.

Table 9.7.C1.1 Summary of IEEE events (2020-24):

S.No.	Academic year	No.of Events	No.of Participants
1	2023-2024	13	680
2	2022-2023	4	342
3	2021-2022	2	28
4	2020-2021	1	32

Table 9.7.C1.2 List of IEEE events in the academic year 2023-24:

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF EVENT	NUMBER OF PARTICIPANTS (EEE)
1	Wide bandgap power electronics and benefits of electrification in heavy duty vehicles	Brij N. Singh, Ph.D, Region 4 Manager External Relationships, Emerging tech in John Deere & Company, USA	20-12-2023	134

2	WiE Eco She Summit	1.Ms. Usha Paliath, Director of We Hub,	02-12-2023	41
		2.Dr Ramalatha Marimuthu, Director at iExplore Foundation for Sustainable Development,		
		3.Dr Umashankar Sahu, Chair, Photonics Society, IEEE Hyd Section,		
		4.Dr Somnath Pal, Chair, Reliability Society, IEEE Hyderabad Section,		
		5.Dr Atul Negi, Past Chair, IEEE Hyderabad Section, and Dean, UoH,		
		6.Mr.M.A.Jabbar, Secretary, IEEE Hyd. Section,		
		7.Global leaders :Dr Khanita Duangchaemkarn, Chair, IEEE R10 WIE, and Dr Celia Shanaz, Chair, IEEE WIE,		
		8.Dr. S. Harivardhagini, Chair of IEEE WIE AG, Hyd Section		
3	R10 PES India chapters annual global workshop	1.Nagaraja Ramappa, MD, PRDC, Bangalore	24-11-2023 To 25-11- 2023	3
		2.Raghupathi N Cavale, Manipal University, Ex SVP, Infosys, Bangalore		
		3.S N Singh, Director, ABV IITM, Gwalior		
		4. Surekha Deshmukh, Domain Consultant, TCS,Pune		
4	Humanitarian visit to Radha Kishan balika bhavan	1.Dr.Himabindu.T, IEEE SB Counsellor, IEEE- IES Faculty Advisor,GNITS Student Branch, IEEE-IES Vice- Chair, Hyderabad Section	19-11-2023	2

5	Condition motoring using machine learning strategies	1.Dr. Amar Kumar Verma, Post Doctoral Fellow 2.Centre for Automotive research and Tribology (CART), IIT Delhi	01-11-2023	31
6	IEEE day celebrations	1.Mr. P. Bala Prasad, Past-Execom member, IEEE Hyderabad Section,Chief Innovation Officer and Global Head - Technology Advisory Services, Technology, Software and Services Business Group	19-10-2023	84
7	Industrial visit to ARCI- International advanced research on powder metallurgy and materials	1.Dr. Sanjay Bhardwaj, a Scientist G & Head CTAT, ARCI	03-10-2023	7
8	Latest trends in battery energy storage systems	2.Mr. B. Koti Reddy, Scientific Officer, Department of Atomic Energy, Heavy Water Plant(Manuguru)	25-09-2023	68
9	AI and Human Intelligence	1.Mr. Sai Kumar Tara, Chairman, Student Activities Committee, IEEE Hyderabad Section	15-09-2023	71
10	IEEE Benefits and resources	1.IEEE Alumnae: B. Rajeshwari Company: Deloitte, Role: RFA Associate QC Engineer , 2.Vaishnavi Ginkala Company: Capgemini Role: Analyst	10-08-2023	5

11	PELS Day- Electrical vehicles for e mobility- The Future- Battery- Fuel cell/powerd	1.Dr. PV Rajgopal, B.Tech (Elec.), PGDM (Mrkt), Ph.D (IIT) Senior Member- IEEE & General Manager (Retd), BHEL/ Corporate R&D/ Hyderabad & Past Chair (2018 – 2020), PES/IAS/PELS- Jt. Chapter, IEEE- Hyderabad section, 2.Sanjib Kumar Panda, Associate Professor and Director of the Power & Energy Research Area, Department of Electrical and Computer Engineering, National University of Singapore, Singapore	16-06-2023	97
12	PELS Day	3.Dr.Himabindu.T, IEEE SB Counsellor, 4.Mrs.K.Swarna Latha, IEEE-PELS chapter advisor, GNITS SB	16-06-2023	73
13	PELS Day- Vidyouth'23	1.Dr. Renuka Methre, Professor, Dept. of ECE, GNITS	16-06-2023	64

Table 9.7.C1.3 List of IEEE events in academic year 2022-23:

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NUMBER OF PARTICIPANTS
1	Opportunities on Being IEEE member and present industry requirements	Ms. Ramya Narendra, YP Chair, IEEE HYD Section 2022, Support Eng. II, Amazon	03-12-2022	108
2	A plug and play operational approach for implementation of an autonomous- micro-grid system	Sanjib Kumar Panda, Associate Professor and Director of the Power & Energy Research Area, Department of Electrical and Computer Engineering, National University of Singapore, Singapore	12-11-2022	214

3	Owasp- A Two day workshop	Ms. Sujatha Yakasiri, Founder of W3 –CS, Sr. Computer Scientist- Information security	20-06-2022 To 21-06-2022	15
4	Star program- ENKIDLING Career	Mr. AV Narayana Rao, Journalist, Andhra Jyothi, All India News Reader	15-03-2022	5

Table 9.7.C1.4: List of IEEE events in academic year 2021-22:

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
	Webinar on digital wellness	1.Rijul Arora,Digital wellness advocate and speaker,3 times TEDX speaker 2.Ritom Gupta,full stack web developer 3.Rainar Angelo,Digital wellness advocate	26-09-2021	7
2	Webinar on gate way-an ultimate guideline to crack gate	1.Ms.Prathyusha Srisilla,GATE 2020 Score:798 &EC Rank:161 2.Ms.Amulya Pendota,GATE 2020 score:607 & EC Rank:1135 & IN Rank:1274	10-07-2021	21

Table 9.7.C1.5: List of IEEE events in academic year 2020-21:

S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	IEEE Day celebrations- Coding Quiz	Dr.N.Malla Reddy, HoD, EEE Dept.	06-10-2020	32

9.7.C2. Indian Society for Technical Education(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** of G. Narayanamma Institute of Technology & Science, Shaikpet, is established in the year 2002 which is run by students with the support of faculty advisor.
- 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.

9.7.C2.1 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.

Skill Enhancement: Focusing on both technical and soft skills crucial for career success.

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.

Research and Innovation: Promoting research projects and offering opportunities for publication.

Career Guidance: Facilitating job fairs, counseling services, and fostering community engagement.

Leadership and Soft Skills: Offering leadership opportunities and promoting teamwork.

Continuous Learning: Keeping students updated on the latest developments in their field through publications.

9.7.C2.2 Young Promising Engineer Award : 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 & Co-curricular activities with their all-round performances

- Due to covid-19 ISTE activities in academic year 2020-21 were not conducted.
- Below table 9.7.C2.1 shows the list of activities conducted for academic years 2021-22 and 2022-23.

Table 9.7.C2.1 ISTE Activities conducted for Two Academic Years

S.No	Academic Year	Technical Events	Number of participants	Awards
1	2022-23	Paper Presentation	15	1. Young Promising Engineer (Cash Prize of Rs 2500/-)
		Poster Presentation	16	
		Project Expo	20	
		Quizony	29	
		Young Engineer Award	1	

2	2021-22	Paper Presentation	12	1. Young Promising Engineer (Cash Prize of Rs 2500/-)
		Poster Presentation	6	
		Project Expo	20	
		Quizony	43	
		Technoshot	2	
		Young Engineer Award	1	

9.7.C3 Institution of Engineers (India)(IEI) (TEJASS EEE Technical Association)

- **The Institute of Engineers-** Student Chapter is a renowned club operating within Electrical and Electronics Engineering department at G. Narayanamma Institute of Technology and Science (For Women) to enhance their skills, foster innovation, and engage in collaborative learning experiences.
- To promote technical excellence, foster creativity, and cultivate a culture of innovation among GNITS students through events and activities.

Key Objectives:

- Provide a platform for students to showcase their technical prowess and innovative ideas

- Organize workshops, seminars, and hands-on sessions to enhance technical skills
- Encourage interdisciplinary collaboration and problem-solving.
- Foster leadership qualities and teamwork among members.
- Promote inclusivity by offering a diverse range of events catering to various interests and skill levels.

Events Offered:

- Technical Events: Tech Talks, Workshops, Power point Presentations, Poster Presentation, Guest lectures, Code debugging etc
- Non-Technical Events: Debate Competitions, Quiz Competitions, Organising Traditional day, JAM, Story Telling.

Achievements:

Consistently organized successful events with high participation rates. Received accolades for innovative event concepts and execution. Produced talented individuals who have excelled in technical competition

Conclusion:

- The Institute of Engineers- Student Chapter stands as a vibrant hub of activity within GNITS, nurturing talent, fostering innovation, and enriching the overall academic experience for students.
- Through its diverse range of events and activities, the club continues to inspire and empower the next generation of tech enthusiasts and leaders.

List of events conducted under Institution of Engineers (TEJASS Dept. student association) for the academic years 2020-24 is given in below tables 9.7.C3.1, 9.7.C3.2, 9.7.C3.3 and 9.7.C3.4

Table 9.7.C3.1 IE(I) Activities conducted for the academic year 2023-24

S.No	Date	Event name	Total no. of participants
1	01.03.2024 (Electro Blitz)	Paper Presentation	120
		Technical poster presentation	
		Technical Quiz	
		Electrical Simulation	
		Treasure Hunt	
		Code Debugging	
		Artista	
		Storytelling	
		JAM	

Table 9.7.C3.2 IE(I) Activities conducted for the academic year 2022-23

S.No	Date	Event name	Total no. of participants
1	19-04-2023 (Technical Fest-2023)	Paper Presentation	50
		Technical poster presentation	
		Technical Quiz	
		Code Debugging	
		Arts	
		Storytelling	
		JAM	

Table 9.7.C3.2 IE(I) Activities conducted for the academic year 2021-22

S.No	Date	Event name	Total no. of participants
1	01-12-2021	Cultural Day	100
2	15-03-2022	· Technical Fest(2022)	64
		· Paper Presentation	
		· Technical Essay Writing	
		Technical report Writing	
· JAM			
3	29-10-2021 and 30-10-2021	Hands-on Session: Basic Electrical and Electronic Circuits	50

Table 9.7.C3.2 IE(I) Activities conducted for the academic year 2020-21

S.No	Date	Event name	Total no. of participants
1	10-04-2021	Best Out of Waste	4
2	19-04-2021	· Technical Fest(2022)	100
		· Paper Presentation	
		· Technical Poster	
		· Technical report Writing	
		· JAM	
		· Code Debugging	
3	17-07-2021	Technical Essay Writing	12
4	29-10-2021 and 30-10-2021	Two Day Workshop on “Arduino and Its Applications”	6

 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)

Vision:

To become a centre 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

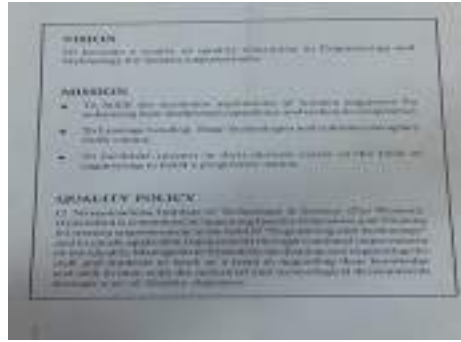


Fig: 10.1.1.6: Availability of Institute Vision Mission in the Student attendance registers

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	<ul style="list-style-type: none"> Academic Aspirations Intellectual Capabilities 	<ul style="list-style-type: none"> Leading – Edge Technologies Exemplary Work Culture 	<ul style="list-style-type: none"> Field of Engineering Progressive Nation
Engineering and Technology	<ul style="list-style-type: none"> Academic Aspirations Intellectual Capabilities Technical Competency 	<ul style="list-style-type: none"> Leading – Edge Technologies 	<ul style="list-style-type: none"> Field of Engineering Success in Desired Career
Women Empowerment	<ul style="list-style-type: none"> Academic Aspirations Intellectual Capabilities Technical Competency 	<ul style="list-style-type: none"> Leading – Edge Technologies Exemplary Work Culture 	<ul style="list-style-type: none"> Success in Desired Career Progressive Nation

Correlation	$\frac{2}{3} + \frac{3}{3} + \frac{3}{3}$ = 2.67	$\frac{2}{2} + \frac{1}{2} + \frac{2}{2}$ = 2.52	$\frac{2}{2} + \frac{2}{2} + \frac{2}{2}$ = 3
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10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

Institute Marks : 25.00

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, Twilio, 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

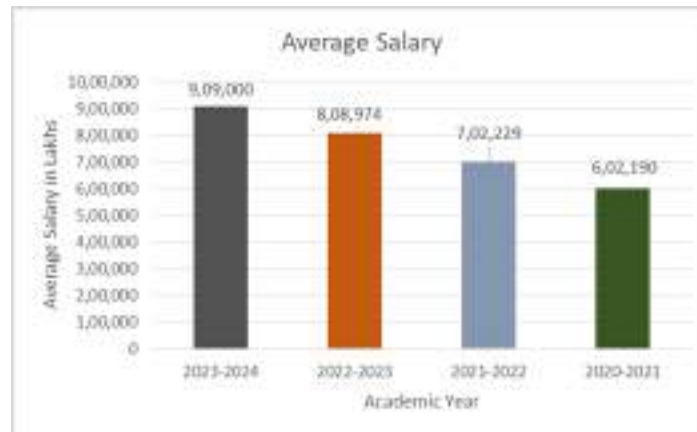


Fig: 10.1.2.2 Average Salary in Placements

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	<ul style="list-style-type: none"> 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. 	<p>Yearly</p> <p>Once</p>
2	Academic Council	<ul style="list-style-type: none"> 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. 	<p>Yearly</p> <p>once</p>
3	Finance Committee	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
6	Library Committee	<p>Functions</p> <ul style="list-style-type: none"> • 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	<p>Function I: Basic measures</p> <ul style="list-style-type: none"> • 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 <p>Function II: Counselling and monitoring</p> <ul style="list-style-type: none"> • Regular interaction and counseling • Surprise inspection at hostels, canteens, toilets, bus stands etc. <p>Function III: Creating Dissemination of the idea of ragging free campus</p> <ul style="list-style-type: none"> • Anti ragging workshops: One awareness program conducted during AY 2122 • Safety and security apps. <p>Function IV: UGC initiated measures.</p> <ul style="list-style-type: none"> • 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)	<p>Roles and Responsibilities:</p> <ul style="list-style-type: none"> • 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
9	Grievance Redressal Committee (Students)	<ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
10	Examination/ Results Review Committee	<p style="text-align: center;">Functions:</p> <ul style="list-style-type: none"> • 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	<p>Functions:</p> <ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
12.	NSS Committee	<p style="text-align: center;"><u>Functions:</u></p> <ul style="list-style-type: none"> • 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	<p><u>Functions:</u></p> <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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) - identifying 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
15.	Internal Quality Assurance Cell	<p>Functions:</p> <ul style="list-style-type: none"> • 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	<p>Functions:</p> <p>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:</p> <ul style="list-style-type: none"> • 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
17.	Alumnae Coordination Committee	<p>Functions:</p> <ul style="list-style-type: none"> • 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. <p>Roles and Responsibilities of the committee members</p> <p>Coordinator:</p> <ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
18.	Website committee	<p>Functions:</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p style="text-align: center;">Function:</p> <p>Providing the right platform to students to showcase and hone their talents in various fields like dancing, acting, singing, mime, mimicry etc.</p> <p>Roles and responsibilities of the convenor:</p> <ul style="list-style-type: none"> • 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. <p>Roles and responsibilities of Faculty members:</p> <ul style="list-style-type: none"> • To help in identifying the student representatives. • And in organising events and competitions. <p>Roles and responsibilities of the students:</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
22	Indian Society for Technical Education (ISTE)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>Responsibilities:</p> <ul style="list-style-type: none"> • 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	<p style="text-align: center;"><u>Functions</u></p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p><u>NPTEL Roles and Responsibilities</u></p> <ul style="list-style-type: none"> • 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 <p><u>FDP Roles and Responsibilities</u></p> <p>The main responsibility of this cell is</p> <ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
29.	Purchase Committee	<p>Functions:</p> <ul style="list-style-type: none"> • 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	<p>Objectives:</p> <ul style="list-style-type: none"> • 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	<p>Functions</p> <ul style="list-style-type: none"> • 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

S. No.	Names of academic and administrative bodies	Functions and responsibilities	Frequency of meetings
32.	Hostel Committee	<ul style="list-style-type: none"> • 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	<p>Functions:</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<p>Functions:</p> <ul style="list-style-type: none"> 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

S.I.No.	Name & Address of the Member	Designation in GB	Category
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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
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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 vaishnavi 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
7	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

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. Nageswar 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 Niranjana Kumar	Coordinator
11	Mr.Ch.LeelaKrishna	Coordinator
12	Ms.Y.RajaLakshmi	Coordinator
13	Mr.P.Purushotham	Coordinator

Table 10.1.3.14. Innovation & Incubation 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	
11	Dr.G.Malini Devi	IPR Coordinator
12	Mrs.E.Gouthami	
13	Mr.B.Rakesh Goud	Start-up Activity Coordinator
14	Mrs.P.N.Ramya	
15	Mrs.Usha	
16	Dr.T.Himabindu	IIC & ARIIA Coordinators
17	Mrs.B.Amrita	
18	Dr.C.Padmaja	NISIP 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. Alakananada	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 Jahnvi, 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	Chairman
2	Dr. 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 Ujwala, Asst.Prof.	EEE
9	Mrs.D.Sree Lakshi, Asst.Prof	IT
10	Dr. A. Naveena, Asst.Prof	ETM
11	Ms. V B 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	Mrs. 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.)
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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	Treasurer, 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 Ragimi, 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)	Secretary
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.)
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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. G.Srividya Reddy	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

S.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. Jahnvi,	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. Jahnvi	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:

- These Rules shall apply to all the Employees of G. Narayanamma Institute of Technology & Science (For Women), Hyderabad.
- Points requiring interpretation or clarification or any cases of doubt shall be referred to the Governing Council, whose decision shall be final.
- 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:

- a. 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.
- b. The Appointing Authority shall have the power to terminate the services of any employee appointed on tenure basis without any notice.
- c. 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:

a)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 IN ORDER TO ENCOURAGE PROFESSIONAL DEVELOPMENT: Institute of is offering incentives to publications in quality journals like SCOPUS 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 DEVELOPMENT R&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**a. 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**

- a. Ph.D. degree in the relevant field and First class or equivalent at either Bachelor's or Master's level in the relevant branch &
- b. At least total 6 research publications in SCI journals / UGC / AICTE approved list of journals. &
- c. 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**

- a. Ph. D. degree in relevant field and First class or equivalent at either Bachelor's or Master's level in the relevant branch.
- b. 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



Item No.1: Review and approval of the minutes of the previous meeting held on 21-12-2023.
 Minutes of the 27th meeting of the Governing Council of GNTE held on 21-12-2023 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 invited the appreciation and achievements of the institution since last Governing Council meeting.

- Academic Approvals by AICTE & PCI/31
 - AICTE Approval for the academic year 2023-24 vide Serial-Comm/1-18666/9753/2023/004 Dated 18/06/2023
 - PCI Approval for the academic year 2023-24 from PCI/10, Hyderabad vide Lr.No:2NTE/18666/AC/006/23/0015-24 Dated 28/11/2023 & D.22-11-2023
- NBA accredited 4 UG programs (ECE, CSE, EEE & IT) till 30.06.2024. Preparation for submission of NBA Application has been initiated under Tier-1 for accreditation of 3 UG programs (ECE, CSE, EEE, IT & EEE) to submit in the month of April, 2024. 4 PG programs in HRM, LMS, CSE & PWD up to 30/06/2024.
- Submission of NAAC 308 on 01-09-2023 for re-accreditation.
- Awards & Recognitions accorded by the institute: 2 awards
- Final year visits and events conducted by the Institute
- Admissions of UG & PG courses of 2023-24 & 2024-25
- Staff Details
 - Staff appointments (Teaching : 14 & Non Teaching : 26)
 - Staff who left the institution (Teaching : 08 & Non Teaching : 7)
- Staff & Students Achievements
- Infrastructure, Library (Volumes - 6969 ; Titles - 568) & Other facilities
- R. & D and Incubation Centre activities
- Sports Achievements
- Research, Higher Education & Placement details
- Student Council: Elections
- Athletic activities
- Short Term & Long Term Objectives

The members congratulated and appreciated the Management and the staff members for the achievements.

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Item No. 1: Distribution of minutes of 27th Academic Council meeting held on 04-11-2023.
 The Principal invited the minutes of 27th Academic Council meeting held on 04-11-2023 in the conference hall, 100075.

The members invited and verified the minutes of 27th Academic Council meeting.

Item No.2: Distribution of B.Tech and M.Tech student admission AY 2023-24
 The principal presented the details of admission 100 (50 of B.Tech and M.Tech branch) and 200 (100 of B.Tech and M.Tech branch) for AY 2023-24 of 100075 & 100076. Outlets and its cost (under Item) (Rs. - 100000) - 100000 against 100000 (under Item) (Rs. - 100000) - 100000. The total admission amount (Rs. - 100000) - 100000 & 200000 (Rs. - 200000) - 200000 was also submitted to the members.

The members verified the B.Tech and M.Tech student admissions for the AY 2023-24.

Item No.3: Approval of admission made under Foreign Students - Candidates/Overseas Course of Study in AY 2023-24
 The Principal informed the details that are being approved from AICTE in India admission for B.Tech under Foreign Students - Overseas Course of Study from the AY 2023-24. 117% approximately. 2 students admitted under Foreign course. 100% admission under 100075 & 100076 under 100000.

The members verified the admission made in B.Tech under Foreign Students for the AY 2023-24.

Item No.4: Approval of proposed increase in intake / addition of new courses in B.Tech from the AY 2024-25.
 The Principal presented the increase in intake in the following courses in B.Tech and its cost (under Item) (Rs. - 100000) - 100000. Course: Business Administration (BBA) - Undergraduate in Business Administration (BBA) vide an intake of 120 from the academic year 2024-25.

S.No.	Course	Current Intake	Proposed Intake
1	Computer Science & Engineering	200	200 + 10 = 210
2	Computer Science & Engineering (BBA)	60	60 + 10 = 70

The members approved the proposed increase in intake and introduction of 100 courses from the AY 2024-25.

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Item No. 1: Approval of sectional plans for the AY 2023-24.
 The Principal informed that the proposed total faculty strength is 228. Involvement: 22 (100%), Assistant Professors: 55, (23%) and Associate Professors: 150 (67%). Required faculty member ratio as per AJCBE is 1:20 and existing faculty member ratio is 1:17.

The members noted and verified the sectional plans for the AY 2023-24.

Item No. 2: Notification of appointment of Dean and Heads of the Departments.
 The Principal informed the membership, in consultation for each, seven new lines/professorial posts have remained. The existing Heads of the Departments have designated as Deans and 66 Professors in the Departments have been appointed as Heads of the Departments. The names of newly designated senior Deans and senior Heads of the Departments have been provided.

The following senior Heads of the Departments / Professors have been designated as Deans with effect from 1-7-2023:

S.No.	Name	Designation
1	D.A. Suresh Babu, Professor (E1)	Deans Assistant
2	P.M. Anand, Professor, IIT	Dean: B & E
3	S.J. Ravi Prasad Babu, Professor, II	Dean: Professional & Extension Education
4	M. S. Sankaranarayanan, Professor (E1)	Dean: Student Welfare & Higher Education
5	M. S. Sankaranarayanan, Professor, IIT	Dean: Student & Administration
6	D. N. Srinivas, Professor, IIT	Dean: Research & Innovation
7	D. P. Srinivas, Professor, IIT	Dean: Student Affairs

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The following Professors have been designated as Heads of the Departments with effect from 1-7-2023:

S.No.	Name	Designation
1	D. N. Srinivas, Professor, II	DEAN-IT
2	P. M. Anand, Professor, IIT	DEAN-EE
3	S. J. Ravi Prasad Babu, Asst. Prof. IIT	DEAN-PROFESSORIAL & EXTENSION
4	D. N. Srinivas, Professor, IIT	DEAN-HE
5	D. A. Suresh Babu, Professor, IIT	DEAN-SS
6	M. S. Sankaranarayanan, Professor, IIT	DEAN-SE
7	S. J. Ravi Prasad Babu, Asst. Professor, Mathematics	DEAN-PROFESSORIAL & EXTENSION

The members noted and verified the appointments of Deans & Heads of the Departments.

Item No. 3: Approval of staff recruitment & FVTI @ self-financing department.
 The Principal presented the details of faculty (27%) and non-teaching staff (11%)/support staff & other staff (DTESS) appointments (11%) during the AY 2023-24. Staff appointments were done after the final meeting of the Governing Council.
 Teaching & Non-Teaching: 15 Teaching - 16 Non-Teaching: 10
 Teaching & Non-Teaching: 15 Teaching - 16 Non-Teaching: 7

The members noted and approved the staff recruitment & DTESS/SS appointments for the AY 2023-24.

Item No. 4: Notification of SWR submitted to NAAC for accreditation.
 The Principal informed the members that in per NAAC regulations the institutions are required to submit SWR after publication of two consecutive batches, i.e., SWR for SWR was submitted on 27/10/2023 for re-accreditation and change of grade. FVTI applications were submitted on 29/ November, 2023. The quality of SWR was accepted on 17/ December, 2023. NAAC Visit Team had to operate in the month of February - March, 2024.

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The Members have noted and verified the SSI submitted to NAAC and they endorsed that GNVTU with excellent infrastructure and more power can achieve A++ grade.

Dr. K. Rama made the following suggestions with respect to NAAC:

- I) To calculate publications per teacher, B+ index and Citation index is reflected in the benchmark.
- II) Achived to be very calculated, otherwise at present, review the bench marks which are disclosed.
- III) The bench end date comparison is done between earlier grade and present data submitted by the institution. This referred to be more cautious while presenting the data to NAAC per year.

She advised to focus more on NIRF ranking as it is gaining more momentum in terms of publications 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 achievement by the college.

Item No. 15) 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 : 89
- d) No. of research scholars guided by the professors : 77
- e) Papers published by self-organized work / Journals : 99; Conferences : 18
SCOPUS/World Journals: 58; Peer reviewed / Indexed Journals : 77
- f) Books published : 112
- g) Workshops/Conferences/Seminars/Training programmes attended by staff :
National: 267; International : 44
- h) Workshops / Conferences / Seminars / Training programmes conducted
National : 1; International : 1
- i) Funds received : Rs.2,26,89,750/- since inception & 05.11.2014; AY 2023-24
- II) Patents / Trad: 44 (Granted 8, Published: 36), 08 - submitted for publication
- III) Active Memberships of Institutions :- 79

The members reviewed the improvement in R & D activities.

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Mr. P. Narasimha Murthy, Chairman, N. E. C. informed the members that we are having departmental and advised to focus on other industry like activities like advanced energy segment and electric vehicles to improve the department on par with other departments with respect to faculty and student achievements. Faculty are worth motivating under such activities.

In this regard, Dr. M. Srinivas, Dean, N. E. C. informed the members that we are having IIRL with IITM which is looking into sustainability and e-vehicles department of IITM is looking forward to work with us. We are also looking into energy sector. The member also discussed the possibility of making collaborations with related agencies and business activities to benefit our faculty and students through a number of activities for the benefit of the institution.

Members appreciated the same.

Item No. 10. Review of Innovation Eddy Activities.
 The proposal presented for initiation of Innovation and Incubation cell and to meet up identified under AIC-GNTTS.

Dr. N. 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 approved GNTTS for establishing Innovation and Incubation Cell.

Mr. P. Narasimha Murthy mentioned about an institute called IITGNTTS which operates from IIT, Hyderabad. They give training about how to create an enterprise by industry entrepreneurs. This can be considered for initial five years ago. He also said about National Innovation Fund which is doing financial job during the last few years. Lot of work goes into making a pitch to this fund. It is one among the top 20 in the country today. It is a 100% 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 GNTTS who are from AI, related, AICTE, innovation etc.

The members reviewed the activities of Innovation & Incubation Cell and approved.

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Item 10.1: Approval of Budget submitted for 2023-24.
 The Budget submitted for the financial year 2023-24 was presented by the Principal. An amount of \$1,133,001.25 has been requested (attach Budget for 2023-24 to the Minutes to review attachments).

The members approved the Budget submitted for AY 2023-24.

Item 10.2: Approval of actual statement of income for the financial year 2022-23.
 The Principal submitted a statement of income for the financial year 2022-23.

	2022-23	2021-22
Income	4758.40	4764.00

* BUDGETING DEFICIT/PROFIT - 1546.00 (2022-23)
 * Non-BUDGETING DEFICIT/PROFIT - 10,000.00 (2022-23)
 * BUDGETING - 2295.00 (2022-23)
 * Non-BUDGETING - 2000.00 (2022-23)
 * Total - 1295.00 (2022-23)

The members approved the actual Report of the Institutions 2022-23.

Item 10.3: Any other matter

6. Approval of B-Tech (Hons) Degree & B-Tech (Hons) Program.
 The Principal submitted the B.Tech (Hons) for given approval to offer B-Tech (Hons) and B-Tech (Hons) Degree Programs to B.Tech 1 students from the AY 2023-24. Around 40 students from the Institute of IIT, IIT and IIT are expected and they are awarded entry degree along with degree from 2024 graduating term.

The members approved the B-Tech (Hons) Degree and B-Tech (Hons) Program.

Note: No example other than IIT (IIT) 2023-24 has been discussed and approved by the members.

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7. Approval of Submission of Credits for the students presented from AY 2022-23 to AY 2023-24.
 The Principal informed the members that the credits have been released and given marks have been added to per instructions of IIT (IIT) for promotion of students from AY 2022-23 to AY 2023-24.

The members approved the Submission of Credits for student promotion.

8. 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 create the Innovation & Incubation ecosystem to run smoothly and to ensure students promote entrepreneurship.

The members approved IPR Policy and Innovation Startup Policy from the AY 2023-24.

The Chairman, Vice-Chancellor, and the Principal accepted the actions of the members of the Governing Council for their valuable suggestions and arduous support for the successful running of the Institution.


 CHAIRMAN
 G. Srinivasan
 Chairman, Governing Council of
 Institute of Information Technology
 Indian Institute of Technology
 Madras

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College Code : 25
G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
 (AUTONOMOUS)

Approved by AICTE, New Delhi, India, on 12/11/2014
 Approved by UGC, New Delhi, India, on 12/11/2014
 Approved by MHRD, New Delhi, India, on 12/11/2014

BBA (HONORS) SEM-III
 Question Paper Code: 25-303-2024
 Date: 12/11/2024

Sl. No. **Books/References**

1	Principles of Marketing, 12th Edition, McGraw-Hill Education
2	Principles of Marketing, 12th Edition, McGraw-Hill Education
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Marking Scheme :
 Questions set of 100 marks in the 3rd hour of the exam. 40 marks for the first hour, 40 marks for the second hour, and 20 marks for the third hour. Total marks for the exam are 100. All questions are compulsory. Different questions are distributed as follows:

Page 4 of 4

G. Narayamma Institute of Technology & Science
 BBA (HONORS) SEM-III
 Question Paper Code: 25-303-2024
 Date: 12/11/2024

College Code : 26
G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
 (AUTONOMOUS)

Approved by AICTE, New Delhi, India, on 12/11/2014
 Approved by UGC, New Delhi, India, on 12/11/2014
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9	Principles of Marketing, 12th Edition, McGraw-Hill Education
10	Principles of Marketing, 12th Edition, McGraw-Hill Education
11	Principles of Marketing, 12th Edition, McGraw-Hill Education
12	Principles of Marketing, 12th Edition, McGraw-Hill Education
13	Principles of Marketing, 12th Edition, McGraw-Hill Education
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 Questions set of 100 marks in the 3rd hour of the exam. 40 marks for the first hour, 40 marks for the second hour, and 20 marks for the third hour. Total marks for the exam are 100. All questions are compulsory. Different questions are distributed as follows:

Page 4 of 4

G. Narayamma Institute of Technology & Science
 BBA (HONORS) SEM-III
 Question Paper Code: 26-303-2024
 Date: 12/11/2024

- 4.1 Review of all academic Council meetings:
- Strategic Investment Strategy for new academic program addition
- 4.2 Academic activities of U-Track and U-Track Programs for the Academic Year 2023-2024
- Academic Calendar of U-Track UG and PG year programs only
 - U-Track UG and PG year program/semester/year approved
 - Current request for academic calendar for the U-Track UG and PG
 - U-Track UG year programs for the academic year 2023-2024

ACADEMIC CALENDAR (2023-2024)

IV - U-Track UG

Commencement of U-Track UG Year Work	2023-2024
U-Track UG Year Commencement	2023-2024 To 2024-2025 U-Track
U-Track UG Year Commencement	2024-2025 To 2025-2026 U-Track
U-Track UG Year Commencement	2025-2026 To 2026-2027 U-Track
U-Track UG Year Commencement	2026-2027 To 2027-2028 U-Track
U-Track UG Year Commencement	2027-2028 To 2028-2029 U-Track
U-Track UG Year Commencement	2028-2029 To 2029-2030 U-Track
U-Track UG Year Commencement	2029-2030 To 2030-2031 U-Track

No. of Working Days: 30

IV - U-Track PG

Commencement of U-Track PG Year Work	2023-2024
U-Track PG Year Commencement	2023-2024 To 2024-2025 U-Track
U-Track PG Year Commencement	2024-2025 To 2025-2026 U-Track
U-Track PG Year Commencement	2025-2026 To 2026-2027 U-Track
U-Track PG Year Commencement	2026-2027 To 2027-2028 U-Track
U-Track PG Year Commencement	2027-2028 To 2028-2029 U-Track
U-Track PG Year Commencement	2028-2029 To 2029-2030 U-Track
U-Track PG Year Commencement	2029-2030 To 2030-2031 U-Track

No. of Working Days: 30



Dean of U-Track UG

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ACADEMIC CALENDAR (2023-2024)

IV - U-Track UG

Commencement of U-Track UG Year Work	2023-2024
U-Track UG Year Commencement	2023-2024 To 2024-2025 U-Track
U-Track UG Year Commencement	2024-2025 To 2025-2026 U-Track
U-Track UG Year Commencement	2025-2026 To 2026-2027 U-Track
U-Track UG Year Commencement	2026-2027 To 2027-2028 U-Track
U-Track UG Year Commencement	2027-2028 To 2028-2029 U-Track
U-Track UG Year Commencement	2028-2029 To 2029-2030 U-Track
U-Track UG Year Commencement	2029-2030 To 2030-2031 U-Track

No. of Working Days: 30

IV - U-Track PG

Commencement of U-Track PG Year Work	2023-2024
U-Track PG Year Commencement	2023-2024 To 2024-2025 U-Track
U-Track PG Year Commencement	2024-2025 To 2025-2026 U-Track
U-Track PG Year Commencement	2025-2026 To 2026-2027 U-Track
U-Track PG Year Commencement	2026-2027 To 2027-2028 U-Track
U-Track PG Year Commencement	2027-2028 To 2028-2029 U-Track
U-Track PG Year Commencement	2028-2029 To 2029-2030 U-Track
U-Track PG Year Commencement	2029-2030 To 2030-2031 U-Track

No. of Working Days: 30

IV - U-Track UG

Commencement of U-Track UG Year Work	2023-2024
U-Track UG Year Commencement	2023-2024 To 2024-2025 U-Track
U-Track UG Year Commencement	2024-2025 To 2025-2026 U-Track
U-Track UG Year Commencement	2025-2026 To 2026-2027 U-Track
U-Track UG Year Commencement	2026-2027 To 2027-2028 U-Track
U-Track UG Year Commencement	2027-2028 To 2028-2029 U-Track
U-Track UG Year Commencement	2028-2029 To 2029-2030 U-Track
U-Track UG Year Commencement	2029-2030 To 2030-2031 U-Track

No. of Working Days: 30



Dean of U-Track UG

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ACADEMIC CREDENTIALS REPORT
St. B. Fakhri

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)


 Director of Academic Services
 St. B. Fakhri
 Page 1 of 1

ACADEMIC CREDENTIALS REPORT
St. B. Fakhri

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)

ACADEMIC CREDENTIALS REPORT
St. B. Fakhri

Academic Achievement (All Subjects) (All Year)	1540/2000
1. Math	170/200
2. English	170/200
3. Science	170/200
4. Social Studies	170/200
5. Foreign Language	170/200
6. Physical Education	170/200
7. Art	170/200
8. Music	170/200
9. Health	170/200
10. Career	170/200
11. Life Skills	170/200
12. Other	170/200
13. Total	1540/2000

Academic Achievement (All Subjects) (All Year)


 Director of Academic Services
 St. B. Fakhri
 Page 1 of 1

Worksheet: Financial Statements
At Year End - 12/31/2023

Account Name	Balance	Debit	Credit
Assets	1,000,000		
Liabilities		500,000	500,000
Equity			500,000
Total	1,000,000	500,000	1,000,000

1. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

2. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.
- Accounting Principles for Business Enterprises (APBE)
 - Accounting Principles for Not-for-Profit Organizations (APNPO)
 - Accounting Principles for Governmental Organizations (APGO)
 - Accounting Principles for Health Care Organizations (APHC)
 - Accounting Principles for Financial Institutions (APFI)
 - Accounting Principles for Insurance Companies (APIC)
 - Accounting Principles for Real Estate Companies (APRE)
 - Accounting Principles for Other Organizations (APO)

3. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

4. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

5. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

6. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

7. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

Table 1: Financial Ratios

Ratio	Value	Interpretation
Current Ratio	2.00	Good
Debt to Equity Ratio	1.00	High
Return on Assets	10%	Low

8. All financial statements are prepared in accordance with the accounting principles generally accepted in the United States of America.

Table 2: Management Discussion and Analysis

Item	Description	Impact
1	Revenue	Increased
2	Expenses	Increased
3	Net Income	Decreased
4	Assets	Increased
5	Liabilities	Increased
6	Equity	Decreased

10	000000	00-0 Statement
11	000000	00-0 Statement
12	000000	00-0 Statement
13	000000	00-0 Statement

Transfer of the above Health Insurance Expenses

07 Principal proposed to transfer the Health Insurance Expenses for the calendar year ended 12/31/2023 to the Health Insurance Expenses for the calendar year ended 12/31/2024.

a. Principal agrees to transfer the Health Insurance Expenses for the calendar year ended 12/31/2023.

08. Resolution/Action/Decision/Approval

Principal proposed to approve the Resolution/Action/Decision/Approval for the calendar year ended 12/31/2023. The Board of Directors approved the Resolution/Action/Decision/Approval for the calendar year ended 12/31/2023.

b. Resolution/Action/Decision/Approval for the calendar year ended 12/31/2023.

0000	000000	00-0 Statement	00
1	000000	00-0 Statement	00
2	000000	00-0 Statement	00
3	000000	00-0 Statement	00

c. Resolution/Action/Decision/Approval for the calendar year ended 12/31/2024.

0000	000000	00-0 Statement	00
1	000000	00-0 Statement	00
2	000000	00-0 Statement	00
3	000000	00-0 Statement	00



Page 1 of 1

3. ITSDA (ITINLANDIGELLA XABDITLA)

S.Nr	Subject Reported	Subject/Subjects Recommended by
1	RESEARCH, ECONOMIC & FINANCIAL ANALYSIS (ECONOMICS)	Statistical Science (1148) of 3.2 COURSE III
2	CONTROL SYSTEMS (ECONOMICS)	Microprocessors and Microcontrollers (1184) of 3.2 COURSE III

4. ITSDA (ITINLANDIGELLA XABDITLA)

S.Nr	Subject Reported	Subject/Subjects Recommended by
1	RESEARCH, ECONOMIC & FINANCIAL ANALYSIS (ECONOMICS)	Statistical Science (1148) of 3.2 COURSE III
2	CONTROL SYSTEMS (ECONOMICS)	Microprocessors and Microcontrollers (1184) of 3.2 COURSE III

5. ITINLANDIGELLA XABDITLA (ECONOMICS)

Subject Reported: NIL

6. ITINLANDIGELLA XABDITLA (ECONOMICS)

Subject Reported: NIL

- 7) Rejected from (CITS III or CITS-III) ADDITIONAL SUBJECTS LIST III (CITS III) AND APPROVED SUBJECTS LIST (BY CITS-III)
- i) DESIGN THINKING (3-Credits)
 - ii) DATA SCIENCE (3-Credits)
 - iii) DATA STRUCTURE LAB (1.5-Credits)

Council approved the above additional subjects for B.Tech students.

8) Decision based on attendance and results. Council proposed to implement the attendance based decision, whereby A.Y. 2023-2024 and result based decision from A.Y. 2022-2023 to A.Y. 2023-2024 as per the existing academic regulations. ITSDA/III extends any corrective to students.



assessment will be applicable to EDPY students in situations not specifically discussed.

EDPY as of 01/1/2023 gives students of credit the permission from 01/1/2023 to 01/1/2023.

01/1/2023 - 01/1/2023 students are permitted to continue their 01/1/2023 to 01/1/2023 semester without any credit requirements additional for the Academic Year 2023-24 only.

Students of EDPY receive any information for other years (2022) Page 01/1/2023 to 01/1/2023 from and 01/1/2023 from to 01/1/2023. EDPY also will implement the same information to other based situations during the A.Y. 2023-2024.

01/1/2023 approved the above information to credit based situations.

01/1/2023 - 01/1/2023 semester information details of the Academic Year 2023-2024, 01/1/2023 to 01/1/2023.

01/1/2023 semester approved information over the credit process.

01/1/2023 approved about the placement of the students in A.Y. 2023-2024 and A.Y. 2022-2023.

01/1/2023 semester approved information over the students enrolled by (EDPY).

The students enrolled with city of study in the Academic Year 2023-2024.

01/1/2023 semester approved information during A.Y. 2023-2024.

Placement prepared to continue the change of information of students of A.Y. 2023-2024 of the students during Academic Year 2023-2024 to be given below.

Sl.No	Course	Year/sem	No. of students Registered	No. of students unregistered/unenrolled
1	M.Sc	1-1	441	0
2	M.Sc	1-2	439	0
3	M.Sc	2-1	444	0
4	M.Sc	2-2	444	0
5	M.Sc	3-1	444	0
6	M.Sc	3-2	444	0
7	M.Sc	4-1	444	0
8	M.Sc	4-2	444	0
9	M.Sc	5-1	444	0
10	M.Sc	5-2	444	0
11	M.Sc	6-1	444	0
12	M.Sc	6-2	444	0
13	M.Sc	7-1	444	0
14	M.Sc	7-2	444	0
15	M.Sc	8-1	444	0
16	M.Sc	8-2	444	0
17	M.Sc	9-1	444	0
18	M.Sc	9-2	444	0
19	M.Sc	10-1	444	0
20	M.Sc	10-2	444	0
21	M.Sc	11-1	444	0
22	M.Sc	11-2	444	0
23	M.Sc	12-1	444	0
24	M.Sc	12-2	444	0
25	M.Sc	13-1	444	0
26	M.Sc	13-2	444	0
27	M.Sc	14-1	444	0
28	M.Sc	14-2	444	0
29	M.Sc	15-1	444	0
30	M.Sc	15-2	444	0
31	M.Sc	16-1	444	0
32	M.Sc	16-2	444	0
33	M.Sc	17-1	444	0
34	M.Sc	17-2	444	0
35	M.Sc	18-1	444	0
36	M.Sc	18-2	444	0
37	M.Sc	19-1	444	0
38	M.Sc	19-2	444	0
39	M.Sc	20-1	444	0
40	M.Sc	20-2	444	0
41	M.Sc	21-1	444	0
42	M.Sc	21-2	444	0
43	M.Sc	22-1	444	0
44	M.Sc	22-2	444	0
45	M.Sc	23-1	444	0
46	M.Sc	23-2	444	0
47	M.Sc	24-1	444	0
48	M.Sc	24-2	444	0
49	M.Sc	25-1	444	0
50	M.Sc	25-2	444	0
51	M.Sc	26-1	444	0
52	M.Sc	26-2	444	0
53	M.Sc	27-1	444	0
54	M.Sc	27-2	444	0
55	M.Sc	28-1	444	0
56	M.Sc	28-2	444	0
57	M.Sc	29-1	444	0
58	M.Sc	29-2	444	0
59	M.Sc	30-1	444	0
60	M.Sc	30-2	444	0
61	M.Sc	31-1	444	0
62	M.Sc	31-2	444	0
63	M.Sc	32-1	444	0
64	M.Sc	32-2	444	0
65	M.Sc	33-1	444	0
66	M.Sc	33-2	444	0
67	M.Sc	34-1	444	0
68	M.Sc	34-2	444	0
69	M.Sc	35-1	444	0
70	M.Sc	35-2	444	0
71	M.Sc	36-1	444	0
72	M.Sc	36-2	444	0
73	M.Sc	37-1	444	0
74	M.Sc	37-2	444	0
75	M.Sc	38-1	444	0
76	M.Sc	38-2	444	0
77	M.Sc	39-1	444	0
78	M.Sc	39-2	444	0
79	M.Sc	40-1	444	0
80	M.Sc	40-2	444	0
81	M.Sc	41-1	444	0
82	M.Sc	41-2	444	0
83	M.Sc	42-1	444	0
84	M.Sc	42-2	444	0
85	M.Sc	43-1	444	0
86	M.Sc	43-2	444	0
87	M.Sc	44-1	444	0
88	M.Sc	44-2	444	0
89	M.Sc	45-1	444	0
90	M.Sc	45-2	444	0
91	M.Sc	46-1	444	0
92	M.Sc	46-2	444	0
93	M.Sc	47-1	444	0
94	M.Sc	47-2	444	0
95	M.Sc	48-1	444	0
96	M.Sc	48-2	444	0
97	M.Sc	49-1	444	0
98	M.Sc	49-2	444	0
99	M.Sc	50-1	444	0
100	M.Sc	50-2	444	0
101	M.Sc	51-1	444	0
102	M.Sc	51-2	444	0
103	M.Sc	52-1	444	0
104	M.Sc	52-2	444	0
105	M.Sc	53-1	444	0
106	M.Sc	53-2	444	0
107	M.Sc	54-1	444	0
108	M.Sc	54-2	444	0
109	M.Sc	55-1	444	0
110	M.Sc	55-2	444	0
111	M.Sc	56-1	444	0
112	M.Sc	56-2	444	0
113	M.Sc	57-1	444	0
114	M.Sc	57-2	444	0
115	M.Sc	58-1	444	0
116	M.Sc	58-2	444	0
117	M.Sc	59-1	444	0
118	M.Sc	59-2	444	0
119	M.Sc	60-1	444	0
120	M.Sc	60-2	444	0
121	M.Sc	61-1	444	0
122	M.Sc	61-2	444	0
123	M.Sc	62-1	444	0
124	M.Sc	62-2	444	0
125	M.Sc	63-1	444	0
126	M.Sc	63-2	444	0
127	M.Sc	64-1	444	0
128	M.Sc	64-2	444	0
129	M.Sc	65-1	444	0
130	M.Sc	65-2	444	0
131	M.Sc	66-1	444	0
132	M.Sc	66-2	444	0
133	M.Sc	67-1	444	0
134	M.Sc	67-2	444	0
135	M.Sc	68-1	444	0
136	M.Sc	68-2	444	0
137	M.Sc	69-1	444	0
138	M.Sc	69-2	444	0
139	M.Sc	70-1	444	0
140	M.Sc	70-2	444	0
141	M.Sc	71-1	444	0
142	M.Sc	71-2	444	0
143	M.Sc	72-1	444	0
144	M.Sc	72-2	444	0
145	M.Sc	73-1	444	0
146	M.Sc	73-2	444	0
147	M.Sc	74-1	444	0
148	M.Sc	74-2	444	0
149	M.Sc	75-1	444	0
150	M.Sc	75-2	444	0
151	M.Sc	76-1	444	0
152	M.Sc	76-2	444	0
153	M.Sc	77-1	444	0
154	M.Sc	77-2	444	0
155	M.Sc	78-1	444	0
156	M.Sc	78-2	444	0
157	M.Sc	79-1	444	0
158	M.Sc	79-2	444	0
159	M.Sc	80-1	444	0
160	M.Sc	80-2	444	0
161	M.Sc	81-1	444	0
162	M.Sc	81-2	444	0
163	M.Sc	82-1	444	0
164	M.Sc	82-2	444	0
165	M.Sc	83-1	444	0
166	M.Sc	83-2	444	0
167	M.Sc	84-1	444	0
168	M.Sc	84-2	444	0
169	M.Sc	85-1	444	0
170	M.Sc	85-2	444	0
171	M.Sc	86-1	444	0
172	M.Sc	86-2	444	0
173	M.Sc	87-1	444	0
174	M.Sc	87-2	444	0
175	M.Sc	88-1	444	0
176	M.Sc	88-2	444	0
177	M.Sc	89-1	444	0
178	M.Sc	89-2	444	0
179	M.Sc	90-1	444	0
180	M.Sc	90-2	444	0
181	M.Sc	91-1	444	0
182	M.Sc	91-2	444	0
183	M.Sc	92-1	444	0
184	M.Sc	92-2	444	0
185	M.Sc	93-1	444	0
186	M.Sc	93-2	444	0
187	M.Sc	94-1	444	0
188	M.Sc	94-2	444	0
189	M.Sc	95-1	444	0
190	M.Sc	95-2	444	0
191	M.Sc	96-1	444	0
192	M.Sc	96-2	444	0
193	M.Sc	97-1	444	0
194	M.Sc	97-2	444	0
195	M.Sc	98-1	444	0
196	M.Sc	98-2	444	0
197	M.Sc	99-1	444	0
198	M.Sc	99-2	444	0
199	M.Sc	100-1	444	0
200	M.Sc	100-2	444	0
201	M.Sc	101-1	444	0
202	M.Sc	101-2	444	0
203	M.Sc	102-1	444	0
204	M.Sc	102-2	444	0
205	M.Sc	103-1	444	0
206	M.Sc	103-2	444	0
207	M.Sc	104-1	444	0
208	M.Sc	104-2	444	0
209	M.Sc	105-1	444	0
210	M.Sc	105-2	444	0
211	M.Sc	106-1	444	0
212	M.Sc	106-2	444	0
213	M.Sc	107-1	444	0
214	M.Sc	107-2	444	0
215	M.Sc	108-1	444	0
216	M.Sc	108-2	444	0
217	M.Sc	109-1	444	0
218	M.Sc	109-2	444	0
219	M.Sc	110-1	444	0
220	M.Sc	110-2	444	0
221	M.Sc	111-1	444	0
222	M.Sc	111-2	444	0
223	M.Sc	112-1	444	0
224	M.Sc	112-2	444	0
225	M.Sc	113-1	444	0
226	M.Sc	113-2	444	0
227	M.Sc	114-1	444	0
228	M.Sc	114-2	444	0
229	M.Sc	115-1	444	0
230	M.Sc	115-2	444	0
231	M.Sc	116-1	444	0
232	M.Sc	116-2	444	0
233	M.Sc	117-1	444	0
234	M.Sc	117-2	444	0
235	M.Sc	118-1	444	0
236	M.Sc	118-2	444	0
237	M.Sc	119-1	444	0
238	M.Sc	119-2	444	0
239	M.Sc	120-1	444	0
240	M.Sc	120-2	444	0
241	M.Sc	121-1	444	0
242	M.Sc	121-2	444	0
243	M.Sc	122-1	444	0
244	M.Sc	122-2	444	0
245	M.Sc	123-1	444	0
246	M.Sc	123-2	444	0
247	M.Sc	124-1	444	0
248	M.Sc	124-2	444	0
249	M.Sc	125-1	444	0
250	M.Sc	125-2	444	0
251	M.Sc	126-1	444	0
252	M.Sc	126-2	444	0
253	M.Sc	127-1	444	0
254	M.Sc	127-2	444	0
255	M.Sc	128-1	444	0
256	M.Sc	128-2	444	0
257	M.Sc	129-1	444	0
258	M.Sc	129-2	444	0
259	M.Sc	130-1	444	0
260	M.Sc	130-2	444	0
261	M.Sc	131-1	444	0
262	M.Sc	131-2	444	0
263	M.Sc	132-1	444	0
264	M.Sc	132-2	444	0
265	M.Sc	133-1	444	0
266	M.Sc	133-2	444	0
267	M.Sc	134-1	444	0
268	M.Sc	134-2	444	0
269	M.Sc	135-1	444	0
270	M.Sc	135-2	444	0
271	M.Sc	136-1	444	0
272	M.Sc	136-2	444	0
273	M.Sc	137-1	444	0
274	M.Sc	137-2	444	0
275	M.Sc	138-1	444	0
276	M.Sc	138-2	444	0
277	M.Sc	139-1	444	0
278	M.Sc	1		

10.1.4 Decentralization in working and grievance redressal mechanism (5)

Institute Marks : 5.00

A.Organizational Structure, List of Administrative Committees and Administrative Heads who have been delegated powers for taking administrative decisions (1)

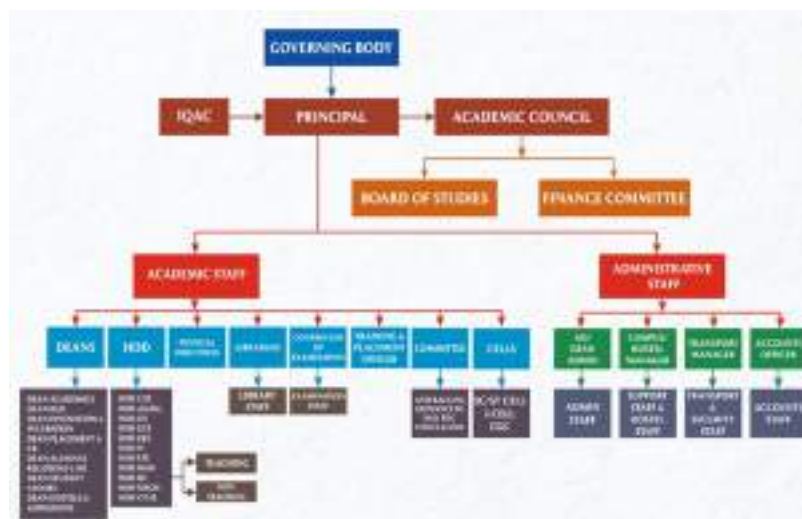


Fig.10.1.4: Organization Structure

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	IQAC 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.Madhavi lata	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	In-Charge, 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.almgrievance.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	Department	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
13	Naga Shriya Saroj.A	Student	IT	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 Redressal 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 witnesses 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 complainant 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.

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

G.NARAYANAMMA INSTITUTE OF TECHNOLOGY& SCIENCE						
S.B.I./c 62012845212 Book						
1-Apr-22 to 31-Mar-23						
Date	Particulars	Vch Type	Vch No.	Debit	Credit	
01-Apr-22	Cr Opening Balance			15362.45		
06-Apr-22	Dr Function Expenses A/c	Payment	50		8000.00	
	Fines & Penalties A/c				500.00	Cr
	ID Cards A/c				266.00	Cr
27-Apr-22	Cr (as per details)	Receipt	49	1390.00		
	Fines & Penalties A/c				1190.00	Cr
	ID Cards A/c				200.00	Cr
28-Apr-22	Cr (as per details)	Receipt	52	600.00		
	Fines & Penalties A/c				530.00	Cr
	Bonafide Certificates A/c				70.00	Cr
28-Apr-22	Cr Transcripts A/c	Receipt	55	450.00		
29-Apr-22	Cr (as per details)	Receipt	57	500.00		
	Duplicate Memoes Fee A/c				300.00	Cr
	Bonafide Certificates A/c				70.00	Cr
	Fines & Penalties A/c				550.00	Cr
29-Apr-22	Cr Transcripts A/c	Receipt	59	50.00		
30-Apr-22	Cr (as per details)	Receipt	61	1030.00		
	Fines & Penalties A/c				870.00	Cr
	Bonafide Certificates A/c				160.00	Cr
28-Mar-23	Cr (as per details)	Receipt	1190	950.00		
	Fines & Penalties A/c				520.00	Cr
	Bonafide Certificates A/c				40.00	Cr
29-Mar-23	Cr Student & Staff Awards A/c	Receipt	1191	5000.00		
29-Mar-23	Cr Sports Events A/c	Payment	2520		5000.00	
29-Mar-23	Cr (as per details)	Receipt	1194	3950.00		
	Accounting Fees				3000.00	Cr
	Sale of Record Books A/c				500.00	Cr
	ID Cards A/c				200.00	Cr
	Bonafide Certificates A/c				40.00	Cr
	Fines & Penalties A/c				220.00	Cr
31-Mar-23	Cr LIC A/c	Payment	2633		3305.00	
31-Mar-23	Cr ECE Lab Maintenance A/c	Payment	2640		1930.00	
31-Mar-23	Cr (as per details)	Receipt	1197	5850.00		
	Accounting Fees				5000.00	Cr
	Bonafide Certificates A/c				40.00	Cr
	Fines & Penalties A/c				810.00	Cr
31-Mar-23	Cr Advance to P.Rama Krishna Reddy, Prof. EEE	Receipt	1199	11812.00		
				6367489.45	6237712.72	
	Cr Closing Balance				69776.72	
				6367489.45	6367489.45	

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

Date: 28/03/2023

To
The Principal,
CMTT

5915

Sub: Imprest Money Spent - EIM Department - Reg.

Date	Items Purchased	Amount in Rs.
24-07-2022	Misc. BOD Balances	80
28-08-2022	Color Printers	60
24-08-2022	Spine Binding-1 (BOD)	30
28-08-2022	Spine Binding-2 (BOD)	60
29-08-2022	Nominal Prisons, Funicular, Banchana	1106
22-08-2022	Pen Ink, micro-covers	150
24-08-2022	Taxi (BOD)	100
15-09-2022	White Board marker	340
05-11-2022	XXXI Stamp Paper	100
10-11-2022	Color Printers	120
15-11-2022	AA Batteries	100
19-01-2023	Hole Punch, Staples, White permanent markers	625
23-07-2023	Departmental Stationery	700
08-09-2023	Files (East Arrow 6/10)	600
04-01-2023	Xerox and speed bindage	460
28-03-2023	Water glasses, Tea-Cups, and Hacks for departmental purpose	1415
Total Amount		5095

Total Sanctioned Amount - Rs. 3,000/-
Spent Amount - Rs. 5095/-
Balance (Balance) Amount - Rs. 95/-

To
Accountant
K. S. Reddy

K. R. L. Reddy
(Dr. K. Rama Linga Reddy)
BOD, ETE

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

G.NARAYANAN INSTITUTE OF TECHNOLOGY AND RESEARCH
(A UTM AUTONOMOUS INSTITUTION)

SHANMUGA, HYDERABAD - 501014, T.S.
Department of Computer Science & Engineering

Date: 17/05/2023

Budget details of Department Technical activities: Validity: Quarter: 1st
on 2023-April-2023. Amount sanctioned: Rs.40,000

Amount Spent for Technical activities:

S.No.	Amount spent	Amount
1.	Cash Prize for best Projects & Hackathons	Rs.16,700
2.	Amount spent for Student Farewell	Rs. 2,500
3.	Trophies	Rs.7,990
4.	Wall Magazine	Rs. 2,500
5.	Certificates	Rs.1,980
6.	Transportation	Rs.151
7.	Diary	Rs.5,569
8.	Amount spent for Budget	Rs.500
	Total Amount spent	Rs. 40,000

TS
Accounts
17/5/2023

M. S. S. Reddy
HOD CSSE

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

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-content/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-Disclosures-2020-21-revised.pdf (https://www.gnits.ac.in/wp-content/uploads/2021/11/Mandatory-Disclosures-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 & O	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	8500000	8276904	1800000	1534725	3900000	3516483
Library	3200000	3135728	2000000	1580447	2453000	2252370	1200000	918173
Laboratory equipment	1220000	1207163	2000000	1852563	2700000	2657625	4200000	3772016
Laboratory consumables	1500000	1433781	1981000	1366313	1800000	1585366	1085000	850638
Teaching and non-teaching staff	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 foreseen 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, as well as 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 90% 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

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 2045700		Actual expenditure (till...): 2108442		Total No. Of Students 390
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1945700	100000	2083033	25409	5406.26

Table 2 :: CFYm1 2022-2023

Total Budget 4378600		Actual expenditure (till...): 4752690.42		Total No. Of Students 376
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
4223600	155000	4658424.42	94266	12640.13

Table 3 :: CFYm2 2021-2022

Total Budget 492000		Actual expenditure (till...): 402810		Total No. Of Students 382
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
384000	108000	349000	53810	1054.48

Table 4 :: CFYm3 2020-2021

Total Budget 766000		Actual expenditure (till...): 773202		Total No. Of Students 404
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
723000	43000	715667	57535	1913.87

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	1610700	1764524	4223600	4658424	100000	100000	518000	510667
Software	335000	318509	0	0	284000	249000	205000	205000
Laboratory consumable	15000	15409	20000	30700	26000	0	23000	20365
Maintenance and spares	85000	10000	135000	63566	82000	53810	20000	37170
R & D	475000	174396	250000	310000	0	0	1000000	800000

Training and Travel	25000	23444	100000	95220	50000	48833	30000	23100
Imprest Amount and systems tc	75000	63204	15000	13466	430000	427958	15000	0
Total	1010000	2369486	520000	512952	872000	779601	1293000	1085635

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

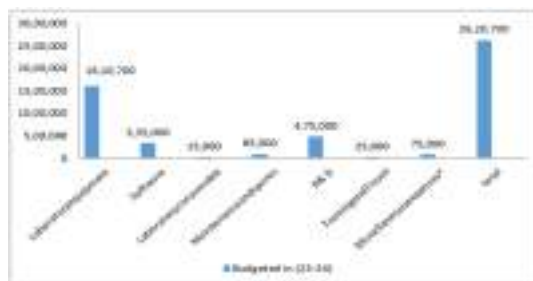
A. Quantum of Budget allocation for three years

- Before the commencement of the financial year ,the department of EEE allocates amount towards software, laboratory equipment, laboratory consumable, maintenance and spares, research and development activities and other professional activities etc.
- The HOD will instruct the concerned lab in-charges to prepare a budget proposal for the respective labs under non-recurring and recurring sections .
- The lab incharges 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 established with new equipment and purchase of software license/upgradation of software.
- The budget allocation towards the research and development in every year has been allotted to meet the following requirements:
- Professional development allowances encourages the faculty towards research and development activities such as publishing paper in journals, patent publication and writing project proposals.
- The faculty members are motivated to develop their exposure by attending faculty development program& workshops .
- The registration fee towards FDPs, courses, conferences/journals publication will be reimbursed to the faculty.
- The HOD in consultation with all the Lab in charges and other senior faculty at department level estimates the budget every year. The estimates are prepared and forwarded to the principal and placed before the chairman for consideration and approval.

A. Justification of Budget allocated for three years

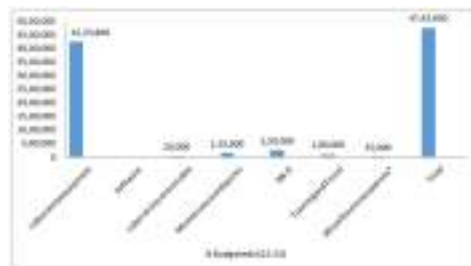
i. Justification of Budget allocated for (2023-2024)

Items	Budgeted in (23-24)
Laboratory equipment	16,10,700
Software	3,35,000
Laboratory consumable	15,000
Maintenance and spares	85,000
R& D	4,75,000
Training and Travel	25,000
Miscellaneous expenses*	75,000
Total	Rs 26,20,700



ii. Justification of Budget allocated for (2022-2023)

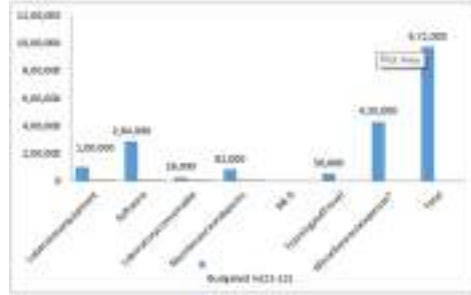
Items	Budgeted in (22-23)
Laboratory equipment	42,23,600
Software	-
Laboratory consumable	20,000
Maintenance and spares	1,35,000
R& D	2,50,000
Training and Travel	1,00,000



Miscellaneous expenses*	15,000
Total	Rs 47,43,600

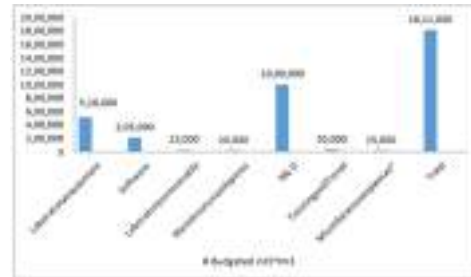
iii. Justification of Budget allocated for (2021-2022)

Items	Budgeted in(21-22)
Laboratory equipment	1,00,000
Software	2,84,000
Laboratory consumable	26,000
Maintenance and spares	82,000
R& D	
Training and Travel	50,000
Miscellaneous expenses*	4,30,000
Total	Rs 9,72,000



iv. Justification for Budget allocated for (2020-2021)

Items	Budgeted in (20-21)
Laboratory equipment	5,18,000
Software	2,05,000
Laboratory consumable	23,000
Maintenance and spares	20,000
R& D	10,00,000
Training and Travel	30,000
Miscellaneous expenses*	15,000
Total	Rs 18,11,000



- In the year 2023-2024, EEE department proposed Rs. 3,35,000 for the Math Works-MATLAB software and Matlab tool and its toolbox
- In the year 2022-2023, EEE department proposed Rs 15,00,000 for establishing new python lab with high configuration. This lab is also used for the purpose of Campus recruitment training program which runs for students comprises preparation of aptitude exam for initial screening round of companies, Resume Writing, Group Discussions and Personal Interviews etc.
- In the year 2022-2023, Rs 2,50,000 was proposed for design and development of Electric Golfkart
- In the year 2021-2022, Rs. 2,84,000 was proposed for the MATLAB software and licensing
- In (2020-21) EEE proposed Rs 2,55,000 for the Matlab software and licensing and Rs 50,000 for KIEL software
- Based on the requirements forwarded by the department the budget allocations are found to be sufficient for (2023-2024), (2022-2023), (2021-2022) ,(2020-2021) years .

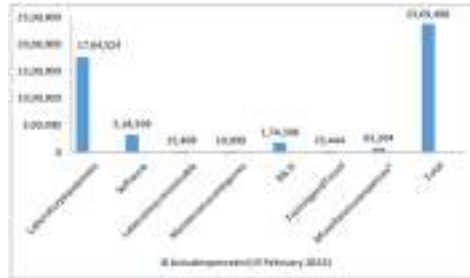
10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

- At the end of every financial year budget proposal will be forwarded by all the departments for approval by the management.
- After Approval Funds are allocated by the Management of the College. Department Heads are intimated of the extent of funds allocated against their budget proposals.
- The allocated budget is utilized for procurement of lab equipment, software, purchase of laboratory consumables, up-gradation of existing lab facilities, furniture, development of faculty programmes are initiated from the department and the funds are released from the accounts office of the college on approval by the Management .
- During the last four years, the budget was utilized to meet expenses like purchase of equipment, expenses towards laboratory consumables etc.

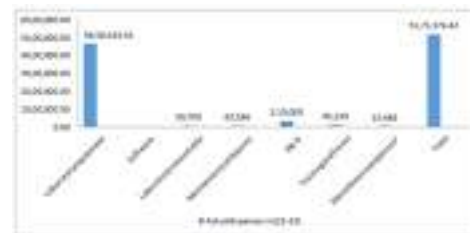
i. Utilization of allocated funds for (2023-2024)

Items	Actual expenses in (till February 2024)
Laboratory equipment	17,64,524
Software	3,18,509
Laboratory consumable	15,409
Maintenance and spares	10,000
R& D	1,74,396
Training and Travel	23,444
Miscellaneous expenses*	63,204
Total	Rs 23,69,486



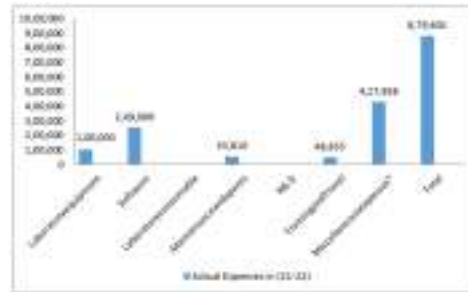
ii. Utilization of allocated funds for (2022-2023)

Items	Actual Expenses in (22-23)
Laboratory equipment	46,58,424.42
Software	-
Laboratory consumable	30,700
Maintenance and spares	63,566
R& D	3,10,000
Training and Travel	95,220
Miscellaneous expenses*	13,466
Total	Rs 51,71,376.42



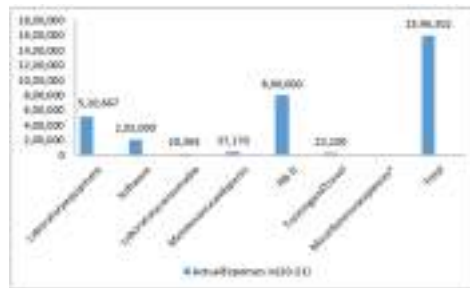
iii. Utilization of allocated funds for (2021-2022)

Items	Actual Expenses in (21-22)
Laboratory equipment	1,00,000
Software	2,49,000
Laboratory consumable	
Maintenance and spares	53,810
R& D	
Training and Travel	48,833
Miscellaneous expenses*	4,27,958
Total	Rs 8,79,601



iv. Utilization of allocated funds for (2020-2021)

Items	Actual Expenses in (20-21)
Laboratory equipment	5,10,667
Software	2,05,000
Laboratory consumable	20,365
Maintenance and spares	37,170
R& D	8,00,000
Training and Travel	23,100
Miscellaneous expenses*	
Total	Rs 15,96,302



In the year 2023-2024, an amount of Rs. 3,18,509 was spent for the purchase of the Math Works-MATLAB software ,Matlab tool and its toolbox.

MATLAB	Version 9.14	(R2023a)
Simulink	Version 10.7	(R2023a)
Simscape	Version 5.5	(R2023a)
Simscape Electrical	Version 7.9	(R2023a)
Simscape Battery	Version 1.1	(R2023a)
Signal Processing Toolbox	Version 9.2	(R2023a)
Sim Events	Version 5.14	(R2023a)
Simulink Check	Version 6.2	(R2023a)
Simulink Code Inspector	Version 4.3	(R2023a)
Simulink Coder	Version 9.9	(R2023a)
Simulink Compiler	Version 1.6	(R2023a)
Simulink Control Design	Version 7.0	(R2023a)
Simulink PLC Coder	Version 3.8	(R2023a)
Simulink Design Optimization	Version 3.13	(R2023a)
MATLAB Compiler	Version 8.6	(R2023a)

- MATLAB software was effectively used which helps the faculty, students and research scholars.
- Matlab helps the faculty and students to perform laboratory experiments/project which in turn enhances the teaching and learning environment with ease and also it helps faculty to continue their research work and greatly helpful in research and development activities by publishing paper in reputed scopus indexed journals.
- The faculty were trained in Matlab tool with the help of hands-on training and workshops.
- In the year (2022-2023) ,an amount of Rs 32,80976 was spent for new python lab for lenova Desktop -39 quantity of total cost Rs 19,11,000, LAN and Networking –Rs 1,96,960 , 20 KVA UPS & Battery’s –Rs 2,55,732, Modular work station –Rs 9,17,284. This lab also used for the purpose of Campus recruitment training programme.

- Python lab is used for the students to carry out the projects on latest technologies like IOT and data science
- In the year (2022-2023) Rs 2,50,000 was utilised for conducting Value added course to students on a course called Design and development of Electric Golfkart.
- In the year (2021-2022), Rs. 2,49,000 was spent in purchasing the major equipment for the MATLAB software
- In the year (2021-2022) for Project lab Rs 1,00,000 was spent for soldering kits, electronic components, testing and measuring equipment required for executing the mini projects, main projects etc.
- In the year(2020-21) , Rs. 2,05,000 was spent for purchase of MATLAB software
- In the year (2020-21) , Rs. 37,170 was spent in procuring the laboratory equipment as per the academic requirement and trainer kit for Microprocessors & Microcontroller
- MP&MC kit -10 numbers- 8051 development board with Accessories
- The MP&MC Lab has Keil & μ 5 software and has 10 microcontroller 8051 development board with Accessories trainer kits. This lab is equipped with 52 networked computer systems with latest configuration.. Arduino kits are provided for student's projects.

10.4 Library and Internet (20)

Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

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 behind 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
3	Research Papers	Faculty and Staff	23
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/>))



e-Shodhsindhu Membership



GNITS on IRINS (Indian Research Information Network System)



10.4.2 Internet (10)

Institute Marks : 10.00

A. 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.

TAX INVOICE

Pioneer E-Labs Limited - ISP Pioneer Towers, 7th Floor, Madhava N. SPIC, Madhava Nagar, Hyderabad - 500081 Tel: 080-42009999 011-3237 Cell: 09849000000 011-3237 State: Telangana - 500081		Invoice No: 135894472 Invoice Date: 14-Mar-2024 Delivery Date: Supplier PO#: Supplier Order No.: Client			
Bill To: S.Kangayyamma Institute of Technology & Science 28-1-20/12/11, Siragapeta, Hyderabad - 500704 GSTIN: 360918 Date Name: Telangana, Code: 35		Due Date: 10th of Every Month Terms of Delivery: Account Name: Pioneer E-Labs Ltd Bank Name: Axys Ltd Account Number: 502010200002190 IFSC: AXYS000 Branch: Madhapur			
S.	Particulars / Services	QTY/UNIT	Rate	per	Amount
	Internet Access Services in Wired and Wireless Mode (SAC 999922)				6,14,791.87
	CGST Output 9% TS				19,321.26
	SGST Output 9% TS				19,321.26
	Internet leased line 100Mbps				
Total					Rs. 1,35,454.17
Amount (Rupees only): One Lakh Thirty Five Thousand Four Hundred Fifty Four and 17/100th only (Rupees: 1,35,454.17)					
Remarks: (1) Being Invoice issued for sale of immovable properties for the month of 01.03.2024 to 31.03.2024 as per contract.		for Pioneer E-Labs Limited - ISP  Authorized Signatory			
Note: Please retain the Invoice for e-proceeding RTGS Payment. Declaration: (1) Internet Access Services in Wired and Wireless Mode - SAC 999922 (2) ISBT Exempted as per ISBT Memo (2) Supply to ISBT 2011 Developer by Authorized Operator 208					
Order SUT No: AWN/AZ003223547716 Date of Prep: 14-03-2024					
This is a Computer Generated Invoice User Name: Amritha@pioneerlabs.com					

TAX INVOICE

Pioneer Fibre Limited - PFL
 Pioneer Fibre Limited
 401-2002th, Malindi
 Malindi, Kenya
 P.O. Box 100000
 Malindi, Kenya
 Tel: +254 733 333 333
 Fax: +254 733 333 333
 Email: info@pioneerfibre.com

Customer: TSP/BAAC
Invoice No: 1234-2024
Invoice Date: 12/31/2023
Invoice Period: 12/31/2023

Item	Description	Quantity	Rate	per	Amount
1	Internet Access Services to Wired and Wireless (Wired & Wireless) 100Mbps Output @ \$70				\$641.87
2	Internet leased line 20Mbps				\$697.30
Total					\$7,139.17

Total: \$7,139.17

For Pioneer Fibre Limited - PFL
 Authorized Signatory

Note: Please refer to invoice for applicable VAT Payment.

Declaration:
 I, Pioneer Fibre Limited, hereby certify that the above information is true and correct.

Signature: _____
Date: _____

B. Available bandwidth: (4)

1000 Mbps 1:1 Leased Line

Campus Network Control Centre (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.

C. 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.

D. 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.

E. 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.

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	Graduates will be able to analyze, develop and demonstrate Projects, both Software and Hardware in relevant topics of Electrical and Electronics Engineering
PSO2	Graduates will be able to identify and solve problems in different core areas of Electrical and Electronics Engineering to meet the industry requirements along with overall personality and skills development.

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 17:37:29