



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	G.NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE (FOR WOMEN)
Name of the head of the Institution	Dr. K Ramesh Reddy
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04029561356
Mobile no.	9849422460
Registered Email	principal@gnits.ac.in
Alternate Email	cegnits@gnits.ac.in
Address	Shaikpet
City/Town	Hyderabad
State/UT	Telangana
Pincode	500104

<b>2. Institutional Status</b>	
Autonomous Status (Provide date of Conformant of Autonomous Status)	28-Mar-2018
Type of Institution	Women
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.K. Rama Linga Reddy
Phone no/Alternate Phone no.	04029565856
Mobile no.	9391045077
Registered Email	iqac@gnits.ac.in
Alternate Email	kattareddy2000@yahoo.com

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://gnits.ac.in/AOAR/2018-2019.pdf">https://gnits.ac.in/AOAR/2018-2019.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://gnits.ac.in/academics/academic-calendar/">https://gnits.ac.in/academics/academic-calendar/</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	B	2.53	2018	04-Dec-2018	31-Dec-2023
1	B	2.53	2014	21-Feb-2014	20-Feb-2019

<b>6. Date of Establishment of IQAC</b>	12-Jul-2012
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<b>7. Internal Quality Assurance System</b>
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Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
IQAC meeting	15-Feb-2020 1	15
NIRF	30-Nov-2019 1	3200
NAAC	19-Sep-2019 3	87
IQAC meeting	24-Aug-2019 1	16
Mentoring System for mentoring students individually or collectively for academic and career development	01-Jul-2019 365	2500
Performance Based Appraisal System	01-Jul-2019 365	200
<a href="#">View File</a>		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Computer Science Engineering	Minor Projects	AICTE: PMKVY	2019 365	961380
Electronics and Communication Engineering	Industry Sponsored Projects	BigWiz Pvt. Ltd.	2019 840	556000
Computer Science Engineering	Industry Sponsored Projects	Brigh Tex Bio-Photonics Pvt.Ltd. (BTBP)	2019 730	850000
Information Technology	Industry Sponsored Projects	Hebeon	2019 365	400000
Information Technology	Industry Sponsored Projects	dbPro Software Solutions	2019 730	250000
Information Technology	Industry sponsored Projects	Teraedge	2019 365	235000
Electronics and Communication Engineering	Projects sponsored by the University/ College	Collaborative Research Scheme: JNTUH/TEQIP-III/MHRD/	2019 365	505000
Basic Science	Projects sponsored by the University/ College	Collaborative Research Scheme: JNTUH/TEQIP-III	2019 365	250000

Electronics and Communication Engineering	Major Projects	AICTE : MODROBs	2019 730	1451000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

1.Promoting Co Curricular Extra Curricular activities for the betterment of students and their placements under the banner of Department Technical Associations, ISTE, IEEE, I Cell, EDC Cell, Cultural Clubs, Sports etc.  
 2.Encouraging staff and students to register for online courses for the development of their technical knowledge. Ex: NPTEL Courses, Course Era.  
 3.Preplacement Training programs (Campus Recruitment Training Program) proposed by IQAC helped the students for acquiring more placements.. 4. GNITS has received Rs.42,54,380/ for Research grants from AICTE, UGC and other agencies. 5. Conducting various FDP programmes both online and offline for enriching knowledge on latest technological trends and improvement of the Quality of Teaching in GNITS.

[View File](#)

**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To conduct international conference on "Emerging Technologies in Engineering and Technology".	Conducted International Conference on Computing Communications and Electrical Technology ICCCET19 on 29th and 30th August 2019.
To Organize at least three FDP Programs on emerging technologies	Department of CSE organized a One-Week National Level FDP on "Edge Intelligence: Edge computing in

	<p>Artificial Intelligence Era" from 02nd December 2019 to 07th December 2019. Department of ECE organized a One Week Online Workshop on " Robotics Powered by ROS" from 25th May 2020 to 30th May 2020 in association with IETE and Smart Bridge. Department of Information Technology organized a five day FDP on " Artificial Intelligence, Machine Learning and Deep Learning" from 16th December 2019 to 20th December 2019 in association with AI First academy and Task, Telangana Government.</p>
<p>To organize National Level Technical meet in the month of February 2020</p>	<p>A one day National level Technical Symposium IGNIUM 2K20 was conducted on 6th March 2020 under ISTE students Chapter with main events such as, Technical Paper Presentation, Project Expo, Hackathon, All Terrain Bots, Line Follower, Maze solver, Pick and Place Robotrons events by Mindspark along with 14 exciting department level parallel events such a Line it Up, Electrovanza, Code Zest, Voltrix 2.0 Technotics, Paper and poster presentations, Hardware project expo and Hackathons. Students from Various Engineering colleges of Telangana and Andhra Pradesh attended to this technical meet.</p>
<p>To Conduct Workshop on NAAC's New Framework</p>	<p>Conducted a Three-day workshop on " NAAC's New Framework for Accreditation and Assessment of HEI's Opportunities and Challenges" in association with NAAC, Bangalore from 19th September 2019 to 21st September 2019</p>
<p>To Organize a program for creating awareness on Engineering courses with Practical demonstration to nearby Government School Students.</p>	<p>Due to Covid-19 Pandemic Situation, the event was cancelled. Based on the situation it will be planned in the future.</p>
<p>Renewal of NBA Accreditation for 4 UG Programmes.</p>	<p>The compliance report for Re-accreditation of UG courses was submitted to the NBA and the experts visit was scheduled in the month of March. Due to the Covid-19 Pandemic Situation experts visit postponed to the next academic year 2020-2021 and have given extension of accreditation from 1st July 2020 to 30th June 2021. NBA Experts Committee visited on January 8th 2021 and Re-accreditation has been given from three years i.e. from 1st July 2021 to 30th June 2024.</p>
<p>Construction of EEE Block Extension.</p>	<p>EEE Block Extension has been done, which created space for 4 Labs 2 Classrooms, 1 Staff Room and 1 Common</p>

Room.

[View File](#)

**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body

Meeting Date

Governing Council

12-Oct-2019

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission

14-Mar-2020

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The ecap software, contains the following modules is being used by all faculty, staff and students for so many years which is an MIS system adopted in this institution. Admissions: At the time of admissions, student's data is recorded in the ecap software and the same is used in all the modules. After completion of admissions, admission register is prepared by downloading and printing from the software. Student ID cards are issued from the admissions module. There is a possibility of editing and deleting the recorded data of students in the admissions module. Academics: Subjects allotment to the faculty, timetable setting, creation of labs and lab batches are performed in the academic module. Student's daily attendance and internal marks are posted by the faculty regularly through their individual logins in the academic module. Consolidated attendance and internal marks report can be downloaded. Employee: Faculty and staff members can see their regular attendance and leave history through their individual logins in Employee module. Daily attendance of the faculty and staff is recorded in the software

through biometric system installed in various places in the campus. Faculty can apply leaves through their logins and the same is approved by the respective HODs. Staff movement during college hours is recorded through the biometric system installed at the main gate. Accounts Fee payments: The fee collections and other miscellaneous collections are recorded in the software by issuing an e receipt. Day wise fee collection reports in the various modes of payments i.e. cash, bank , online etc can be downloaded. Fee dues list can be created which is easy to identify the fee defaulters. Transport: Bus routes and stages are created and students are subscribed to the designated routes and stages. A report of list of students bus wise, route wise and stage wise can be created. Hostel: Hostel block no. s, room numbers are created and rooms are allotted at the time hostel admissions at the starting of the academic year. Student list room wise, hostel wise and branch wise can be downloaded from the hostel reports. Separate biometric systems are installed in the hostel duly integrated into the ecap software. Hostel students attendance is recorded morning and evening and the reports can be downloaded regularly.

Administration: Academic calendar, College timings, holiday list can be set through administration module. Users, user levels can be created and necessary user permissions also can be given through the administration module. Library : Books issue and return can be done by scanning barcode. Barcodes are also created according to the Accession No. of the books.

Examinations: Internal exam marks entry report and generation of reports can be done. Correspondence: Communication sends to parents of the students about daily absenteeism of the students. Internal circulars can be issued to the faculty staff. Student's Login: Students can login into the software from remote places using their roll number and default password. Students are able to see their performance like attendance, marks, fee dues, academic calendar, timetable etc. through logins.

Part B

**CRITERION I – CURRICULAR ASPECTS**

**1.1 – Curriculum Design and Development**

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Electrical and Electronics Engineering	19/08/2019	Linear Algebra and Multivariable Calculus (BS111AB)	19/08/2019
BTech	Electrical and Electronics Engineering	19/08/2019	Programming for Problem Solving (ES111AF)	19/08/2019
BTech	Electrical and Electronics Engineering	19/08/2019	Engineering Graphics (ES111AE)	19/08/2019
BTech	Electrical and Electronics Engineering	19/08/2019	Engineering Workshop (ES11104)	19/08/2019
BTech	Electrical and Electronics Engineering	19/08/2019	Physics Lab (BS11102)	19/08/2019
BTech	Electrical and Electronics Engineering	19/08/2019	Programming Lab (ES11105)	19/08/2019
BTech	Electrical and Electronics Engineering	20/01/2020	Numerical Techniques and Transform Calculus (BS112AG)	20/01/2020
BTech	Electrical and Electronics Engineering	20/01/2020	English (HS112AJ)	20/01/2020
BTech	Electrical and Electronics Engineering	20/01/2020	Basic Electrical Engineering (ES112AD)	20/01/2020
BTech	Electrical and Electronics Engineering	20/01/2020	English Professional and Communication Skills Lab	20/01/2020



[View File](#)**1.2 – Academic Flexibility**

## 1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

## 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Electrical and Electronics Engineering	01/07/2019
BTech	Electronics and Communication Engineering	01/07/2019
BTech	Computer Science and Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BTech	Electronics and Telematics Engineering	01/07/2019
Mtech	Computer Science and Engineering	01/07/2019
Mtech	Power Electronics and Electric Drives	01/07/2019
Mtech	Wireless and Mobile Communications	01/07/2019
Mtech	Computer Networks and Information Security	01/07/2019
Mtech	Digital Electronics and Communications Engineering	01/07/2019

**1.3 – Curriculum Enrichment**

## 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Cyber Security	12/03/2020	32
Arduino Development Board for Basic Hardware Applications	01/09/2019	82
Experiments with Arduino	01/08/2020	54
Brainovision Solutions Pvt. Ltd.	05/09/2019	180
Hebeon Technologies Pvt. Ltd.	16/09/2019	198
Edyst Consulting Pvt.	01/10/2019	186

Ltd.		
eKalasaala - The Virtual Finishing School	13/01/2020	188
Python Programming	03/11/2019	146
Data Engineering and AI	18/08/2019	189
Web Development using PHP	06/01/2020	158
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Electrical and Electronics Engineering	66
BTech	Electronics and Communication Engineering	145
BTech	Computer Science and Engineering	188
BTech	Information Technology	68
BTech	Electronics and Telematics Engineering	17
<a href="#">View File</a>		

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Feedback obtained from various stake holders offers great help in improving the institution and contributes highly to its overall development. It provides a clear expectation of performance by the stakeholders and gives insight into the strengths and weaknesses of the institution. Feedback is in fact the key to the institution's success. The feedback is collected annually from all the stakeholders and is used in the following places</p> <ul style="list-style-type: none"> <li>• To check whether the Vision and Mission of the departments as well as the institution are being met.</li> <li>• To take inputs while Forming and updating program curriculums.</li> <li>• Improving quality of the various programs offered by the institute.</li> <li>• To check Attainment levels of the PEOs (Program Educational objectives) .</li> <li>• To know if the infrastructural facilities and other facilities provided by the institution like library , Wifi , transport, hostel etc are good.</li> <li>• Analyzing the impact of the teaching learning methodologies used in the institution.</li> <li>• To analyze the performance of faculty.</li> </ul> <p>Feedback is collected from following stakeholders :</p> <p>Student feedback :</p> <ul style="list-style-type: none"> <li>• A Graduate Student Exit Survey is done for the outgoing students in which questionnaires are answered by the students . The questions are framed in such</li> </ul>

a way that , they directly relate to the attainment of PEOs . • One final year student is made part of the DAC (Departmental Advisory committee ) to give inputs and help in the improvement of the program. • A CRC( Class Review Committee) meeting consisting of students from every year ( IInd, IIIrd and IV) , is conducted twice in semester to know the status of the courses being taught and identify the difficulties of students if any. Appropriate measures are immediately taken by the heads of the department to resolve them. • Feedback on faculty is taken from students at the end of every semester to know about the faculty performance. This gives faculty an opportunity to assess their strengths and weaknesses and improve accordingly. Alumni feedback : Feedback from Alumni is collected every year to know the accomplishment/progress in their professional advancement after graduation, based on the Graduate Programme Study at the institution. This feedback also helps to find out whether the programme has helped them in carrying out self learning post their study at the institution. This feedback helps in assessing the status of the institution with respect to the industry demands. It gives an insight into the various modern technologies that a graduate needs to be aware of so as to fare well in the industry. The department/institute analyzes these feedbacks and updates the programs accordingly. Parents feedback: The feedback from parents is taken as inputs and are treated as sources of inspiration and encouragement for fine tuning our academic processes. This feedback helps in knowing the satisfaction level of parents with reference to the curriculum offered, laboratory equipment provided and modern scientific tools available, student transport/ hostel facilities, safety and security measures taken up by the institution, medical facilities, infrastructural facilities, campus placement

## **CRITERION II – TEACHING- LEARNING AND EVALUATION**

### **2.1 – Student Enrolment and Profile**

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Electrical and Electronics Engineering	120	142000	118
BTech	Electronics and Communication Engineering	180	142000	180
BTech	Computer Science and Engineering	180	142000	180
BTech	Information Technology	120	142000	120
BTech	Electronics and Telematics Engineering	60	142000	60
Mtech	Power Electronics and Electric Drives	18	20415	11
Mtech	Digital Electronics and Communications Engineering	18	20415	16

Mtech	Computer Science and Engineering	18	20415	15
Mtech	Computer Networks and Information Security	18	20415	12
Mtech	Wireless and Mobile Communications	18	20415	15
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	658	69	187	15	202

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
202	190	13	45	9	40

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring and Counseling: • Attendance of the students is monitored on a regular basis, and communication is sent to the parents/guardians if any student is falling short of the requirements or continually absent without intimation. Special Counseling is also imparted to such students, alerting them to become attentive. • Regular Counselor is appointed (1 faculty for each 15 to 20 students), who monitors the performance and advises the students as needed. For Weak Students: • Remedial Classes are conducted for those students who could not succeed in some of the earlier courses. • Out of turn counseling is done for very poor students. • Bridge Courses in Maths and English are conducted for Lateral Entry Students, who have deficiencies because of their academic back ground limitations. • Remedial/Bridge Classes are usually conducted in the Saturday Afternoon Sessions or in the available vacant slots of time-table schedule. For Bright Students: • Based on the performance, the students who are bright are encouraged by giving Gold medal, Young Engineer Award and cash prizes are announced at the time of College Annual Day. • The Top fifteen students from each class are allowed to attend various seminars, workshops for improving their technical knowledge and skills. • Students who got more than 95 of attendance of all Years of B.Tech will be awarded as Most Sincere Student. Also awards will be given to the students who got best score in various competitive exams like GRE, TOEFL, Gate etc. Among various departments of the college, students who got best performance all over will be considered as Student President of Annual day celebration who is eligible for seating in the dais along with the dignitaries. Also the photographs of these students will be published in college newsletter, which will be released yearly twice.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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2974

202

1:15

**2.4 – Teacher Profile and Quality**

## 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
197	202	Nil	Nil	43

## 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.K.Ramesh Reddy	Principal	Patron - ICCET-19
2019	Dr.K.Ramesh Reddy	Principal	Education Leadership Award received from 27th Business School Affaire Dewang Mehta National Educational Awards
2019	Dr.K.Ramesh Reddy	Principal	Member - BOS at JNTUH, IEEE, IE(I), NAFEN and Expert Committee Member of NBA, Technical committee Member of "International Association of Science Technology Development (IASTED) conference", Calgary, Canada, Editorial Board Member of "World Academy
2019	Dr.K.Ramesh Reddy	Principal	Reviewer - National Journal of Institution of Engineers (India), Kolkata International Journal of IEEE transactions on Power Delivery, Journal of Power Electronics, South Korea and International Journal of Power Electronics Drives, UK.

2019	Dr.R.Balasubramanian	Professor	Life Member Affinity Group(LMAG) Chair of IEEE Hyderabad Section
2019	Dr.R.Balasubramanian	Professor	Expert Committee Member in Global Innovations and Technological Allowance(GITA)-DST-CII(Confederation of Indian Industries)
2019	Dr.R.Balasubramanian	Professor	Reviewer - IEEE transactions on power systems.
2019	Dr.K.Ragini	Professor	SPOC for the SWAYAM-NPTEL Local Chapter
2019	Dr.M.Seetha	Professor	Best HOD of the year,CSI Mumbai Technext , Mumbai
2019	Dr.M.Seetha	Professor	Acharya Ratna award,Information Technology Association of Andhra Pradesh,Takshasila, Impact foundation Indian Servers, Vijayawada in 2019.
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	4	8	27/09/2020	01/11/2020
BTech	2	1	13/01/2020	15/02/2020
BTech	2	2	26/11/2020	23/12/2020
BTech	2	3	14/12/2019	22/01/2020
BTech	2	4	28/11/2020	23/12/2020
BTech	2	5	13/12/2019	17/02/2020
BTech	2	7	21/12/2019	08/02/2020
BTech	2	8	27/09/2020	01/11/2020
<a href="#">View File</a>				

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in

the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
725	14065	5

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.gnits.ac.in/academics/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
02	BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	138	114	82
04	BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	211	188	89
05	BTech	COMPUTER SCIENCE AND ENGINEERING	215	194	90
12	BTech	INFORMATION TECHNOLOGY	121	94	77
54	Mtech	POWER ELECTRONICS AND ELECTRIC DRIVES	11	8	73
B1	Mtech	DIGITAL ELECTRONICS AND COMMUNICATIONS ENGINEERING	11	10	91
58	Mtech	COMPUTER SCIENCE AND ENGINEERING	18	18	100
78	Mtech	COMPUTER NETWORKS AND INFORMATION SECURITY	12	12	100

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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

### CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

<b>Yes</b>
Name of the teacher getting seed money
Dr.S.S. TulasiRam
<a href="#">View File</a>

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

#### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	90	G.Narayanamma Institute of Technology Science (For Women)	0.72	0.72
Projects sponsored by the University	1095	G.Narayanamma Institute of Technology Science (For Women)	4.25	4.25
Projects sponsored by the University	365	Collaborative Research Scheme: JNTUH/T EQIP-III/MHRD/	5.05	4.12
Industry sponsored Projects	365	Teraedge	2.35	2.35
Industry sponsored Projects	730	dbPro Software Solutions	2.5	2.5
Industry sponsored Projects	365	Hebeon	4	4



Industry sponsored Projects	730	Brigh Tex Bio-Photonics Pvt.Ltd. (BTBP)	8.5	8.5
Industry sponsored Projects	840	BIGWIZ Pvt. Ltd.	5.56	1.36
Minor Projects	365	AICTE-PMKVY	9.63	1.67
Major Projects	730	AICTE-MODROBS	14.51	11.6
<a href="#">View File</a>				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

5
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### 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Modern Control Techniques in Power systems Electric Drives	Electrical Electronics Engineering	17/10/2019
Research Aspects of Electrical Vehicle Charging station and its effect on Distribution Systems.	Electrical Electronics Engineering	28/05/2020
Design Thinking	Electronics and Communications Engineering	14/03/2020
"Intra College Innovation Contest 2019"-Idea pitching	Computer Science Engineering	03/10/2019
Design Thinking(SAMASYA-workshop by Dr. Radhika Meenakshi Shankar	Computer Science Engineering	11/11/2019
Introduction to Scopus Database and Research Analysis	Computer Science Engineering	18/11/2019
Awareness on IPR	Computer Science Engineering	13/12/2019
Edge Intelligence: Edge Computing in Artificial Intelligence Era	Computer Science Engineering	02/12/2019
24-hour hackathon on Web Application Development, under CSI by Dept. of CSE in association with Brain O Vision solutions India	Computer Science Engineering	18/01/2020

Pvt. Ltd., Hyderabad		
National Level 36 Hours Women Hackathon on Environmental	Computer Science Engineering	31/01/2020
Smart India Hackathon-2020	Computer Science Engineering	04/02/2020
Artificial Intelligence, in association with Brain O Vision Solutions India Pvt. Ltd.	Computer Science Engineering	22/05/2020
Understand key research metrics, Importance of Literature survey, identifying right Journal Tracking research performance	Computer Science Engineering	28/05/2020
Understand key research metrics, Importance of Literature survey, identifying right Journal Tracking research performance by Mr Vijay Reddy, Elsevier	Computer Science Engineering	28/05/2020
Augmented Reality Virtual Reality	Information Technology	26/02/2020
Agile Connections to Future	Information Technology	29/02/2020
Data science	Information Technology	19/02/2020
Cyber Security Data Privacy	Information Technology	17/02/2020
Augmented Reality Virtual Reality Introduction	Information Technology	22/01/2020
Create Vmware Technology Skills among Faculty Students	Information Technology	14/11/2019
Session on Cyber Awareness	Information Technology	25/09/2019
Opportunities in IT industry and Skills required	Information Technology	14/08/2019
Accenture Preplacement talk	Information Technology	07/08/2019
Session on Preplacement talk Tech talk(Persistent Systems)	Information Technology	06/08/2019
Node JS(MVC)	Information Technology	06/08/2019
How to prepare Succeed at competitive coding	Information Technology	06/08/2019

How to prepare Succeed at competitive coding	Information Technology	05/08/2019
How to prepare Succeed at competitive coding	Information Technology	31/07/2019
Data science	Information Technology	24/07/2019
Netsim Academic Version Training	Electronics and Telematics Engineering	30/01/2020
<a href="#">View File</a>		

### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best ECE Teacher from Engineering Colleges in TS	Dr. PVD Somasekhar	ISTE	01/12/2019	Teaching
Cash Award worth 1 Lakh	E Manasa, G Shireesha, N Lohitha	Digital Finance Advisor Hack2Hire(24 hour hackathon) - INVESCO Technology, Hyderabad	03/11/2019	Engineering and Technology
Best Women Engineer	Dr.N.Kalyani	Institution of Engineers (India), Hyderabad as part of 34th Indian Engineering Congress	27/12/2019	Engineering and Technology
Uthama Acharya Puraskar award	Dr.N.Kalyani	Information Technology Association of Andhra Pradesh, Takshasila, Impact foundation Indian Servers, Vijayawada in 2019.	02/10/2019	Engineering and Technology
Best Research Paper Award	Dr.M.Seetha	ICCCET,GNITS	30/08/2019	Engineering and Technology
Acharya Ratna award	Dr.M.Seetha	Information Technology Association of Andhra Pradesh, Takshasila, Impact foundation Indian Servers, Vijayawada in 2019.	02/10/2019	Engineering and Technology

Best HOD of the year	Dr.M.Seetha	CSI, Mumbai Technext	28/09/2019	Engineering and Technology
Education Leadership Award	GNITS	Dewang Mehta National Educational Award	15/11/2019	Engineering and Technology
Higher Education award	GNITS	Brainfeed	07/12/2019	Engineering and Technology
<a href="#">View File</a>				

### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
GNITS Incubation Center	Mr.P.Maruti Prasad	Book My Stall	M/s Book My Stall Pvt.Ltd., Hyderabad	Product Development	02/12/2019
GNITS Incubation Center	Mr.JVK Chaitanya Varma	Intrinsic Science Labs	M/s Intrinsic Science Labs, Pvt. Ltd., Hyderabad	Product Development	16/12/2019
<a href="#">View File</a>					

### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
<b>No Data Entered/Not Applicable !!!</b>	

#### 3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electrical and Electronics Engineering	23	2.83
International	Electronics and Communications Engineering	7	1.15
International	Computer Science Engineering	19	5.49
International	Information Technology	12	5.94
International	Electronics and Telematics Engineering	16	1.93
International	Humanities and Mathematics	10	4.38
International	Mechanical Engineering	2	2.93

National	Electronics and Communications Engineering	5	6.54
<a href="#">View File</a>			

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electronics and Telematics Engineering	11
Information Technology	5
Computer Science and Engineering	15
Electronics and Communication Engineering	4
Electrical and Electronics Engineering	14
<a href="#">View File</a>	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
System and methods for monitoring and forecasting physiological conditions	Published	201941028160 A	02/08/2019
Device and Method for Determining Quality and Flow Control of Water	Published	201941047644 A	16/12/2019
System and Method for Detecting and Assisting in Quitting Smoking Habit	Published	201941036716 A	20/09/2019
System and Method for Solid waste Management and Segregation	Published	201941036714 A	20/09/2019
<a href="#">View File</a>			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
A Novel IUPQC for Multi-Feeder	Mr. T. Surya Prakash	IEEE	2020	1	G.Narayana namma Institute of	1

Systems Using Multilevel Converters With Grid Integration of Hybrid Renewable Energy System						Technology and Science (for Women)	
Fuzzy Controller based Interline Unified Power Quality Conditioner (IUPQC) in Multi-feeder Systems	Mr. T. Surya Prakash	IEEE	2019	1	G.Narayanna Institute of Technology and Science (for Women)	1	
Neural network with adaptive evolutionary learning and cascaded support vector machine for fault localization and diagnosis in power distribution system	Dr.S.S.Tulasi Ram	Springer	2020	1	G.Narayanna Institute of Technology and Science (for Women)	1	
Fault Recognition and Diagnosis Based on a Decision Tree for Power Distribution Systems	Dr.S.S.Tulasi Ram	Journal of Computational Mechanics, Power System and Control	2019	1	G.Narayanna Institute of Technology and Science (for Women)	1	
An Examination on Advanced MPPT Methods	Mr.Buchi Babu P	IJEAT	2019	2	G.Narayanna Institute of Technology	2	

For PV Systems Under Normal Partial Shading Conditions						and Science (for Women)	
Comprehensive Examination on solar - Wind Energy Systems Grid Integration and Emerging Power Quality Challenges	Suresh Palla	IJEAT	2019	2	G.Narayana Institute of Technology and Science (for Women)	2	
PID and Fuzzy controllers for BLDC motor in Electric Vehicles	Dr.N.Malla Reddy	IJARTET	2019	0	G.Narayana Institute of Technology and Science (for Women)	Nil	
Design of a Harmonic Filter for a Grid Connected Doubly Fed Induction Generator under Unsymmetrical Fault Conditions	Dr.R. Nageswara Rao	IJITEE	2020	0	G.Narayana Institute of Technology and Science (for Women)	Nil	
STATCOM Based Multilevel Inverter Modelling and Simulation	Y.Priyanka	IJRTE	2019	0	G.Narayana Institute of Technology and Science (for Women)	Nil	
Improved Automatic Generation Control of Interconnected Power System	K.Krushna Murthy	IJRTE	2019	0	G.Narayana Institute of Technology and Science (for Women)	Nil	

Women )

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## 3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A Novel IUPQC for Multi-Feeder Systems Using Multilevel Converters With Grid Integration of Hybrid Renewable Energy System	Mr. T. Surya Prakash	IEEE Access	2020	1	1	G.Narayanna Institute of Technology and Science (for Women)
Fuzzy Controller based Interline Unified Power Quality Conditioner (IUPQC) in Multi-feeder Systems	Mr. T. Surya Prakash	IEEE	2019	Nil	1	G.Narayanna Institute of Technology and Science (for Women)
Neural network with adaptive evolutionary learning and cascaded support vector machine for fault localization and diagnosis in power distribution system	Dr.S.S.Tulasi Ram	Springer	2020	1	1	G.Narayanna Institute of Technology and Science (for Women)
Fault Recognition and	Dr.S.S.Tulasi Ram	Journal of Computational	2019	Nil	1	G.Narayanna Institute



Diagnosis Based on a Decision Tree for Power Distribution Systems		Mechanics, Power System and Control				of Technology and Science (for Women)
An Examination on Advanced MPPT Methods For PV Systems Under Normal Partial Shading Conditions	Mr.Buchi Babu P	IJEAT	2019	1	2	G.Narayanna Institute of Technology and Science (for Women)
Comprehensive Examination on solar - Wind Energy Systems Grid Integration and Emerging Power Quality Challenges	Suresh Palla	IJEAT	2019	1	2	G.Narayanna Institute of Technology and Science (for Women)
PID and Fuzzy controllers for BLDC motor in Electric Vehicles	Dr.N.Malla Reddy	IJARTET	2019	Nil	Nil	G.Narayanna Institute of Technology and Science (for Women)
Common Mode Voltage Eliminating in ML-ANPC Inverter Using Modern PWM	PVSSA Parimala	IJMTE	2019	Nil	Nil	G.Narayanna Institute of Technology and Science (for Women)
Time Series Clustering-Introduction to Health care System	Mr.T.Rajesh, Asst.Prof. Dr.K.Venugopal Rao	International Journal of Innovative Technology and Exploring Engineerin	2019	1	Nil	G.Narayanna Institute of Technology and Science (for Women)

Regressive Whale Optimization for Workflow Scheduling in Cloud Computing	Mr.G.Narendrababu Reddy, Asst.Prof.	International Journal of Computational Intelligence and Applications	2019	3	2	G.Narayanna Institute of Technology and Science (for Women)
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	25	112	20	40
Presented papers	34	8	Nil	2
Resource persons	1	5	Nil	3
<a href="#">View File</a>				

### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr.A.Sharada, Professor, CSE	Translation the course OOAD offered by IIT Kharagpur into Telugu language	NPTEL Project of MHRD, Govt of India	18000
Dr.N.Kalyani, Professor,CSE	Translation the course VLSI offered by IIT Kharagpur into Telugu language	NPTEL Project of MHRD, Govt of India	20000
Dr. I. Ravi Prakash Reddy, IT	Knowledge base activities Micro Projects / Code base solutions on cutting edge Technologies	Hebeon Technologies	400000
Dr. I. Ravi Prakash Reddy, IT	Content management system with web page automation	TeraEdge Digital	235000
Dr. Ch.Ramesh, IT	Predictive analytics for Financial analytics and investment Banking	DBPRO Software Solutions	100000
Dr. Ch.Ramesh, IT	Building Deep	DBPRO Software	150000

	Learning Models to analyze Human Bio Parameters for Wearable Technology bands such as fitness bands	Solutions	
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### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
TCS	CII School teachers training	Government teachers	0	210
<a href="#">View File</a>				

### 3.6 – Extension Activities

#### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation Camp	G Narayanamma Institute of Technology Science	6	42
150th Birthday Celebrations of Mahatma Gandhi	G Narayanamma Institute of Technology Science	2	32
Vivek Band 2020 - Be Good Do Good	G Narayanamma Institute of Technology Science	4	54
Ek Bharath Sreshsta Bharath (EBSB), Student Cultural Exchange Program	AICTE	14	20
<a href="#">View File</a>			

#### 3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Kalam Bharat Project	Outstanding Member	Department of School Education, Govt. of Telangana	2
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#### 3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities

NSS- Swachh Bharat	G Narayanamma Institute of Technology Science	Harita Haram	15	50
NSS	G Narayanamma Institute of Technology Science	Pulse Polio Programme	1	18
Fit India Movement	G Narayanamma Institute of Technology Science	National Sports Day Celebration-s-Spot Jogging Event	30	2500
Fit India Movement	G Narayanamma Institute of Technology Science	Yoga Day Celebrations-2019	35	Nil
Fit India Movement	G Narayanamma Institute of Technology Science	Stress Management by Yoga	3	66
Fit India Movement	G Narayanamma Institute of Technology Science	Mandatory Sports sessions	12	660
Fit India Movement	G Narayanamma Institute of Technology Science	National Level Inter college tournament for Women- VERVE-20	22	543
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### 3.7 – Collaborations

#### 3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
RD Collaboration M/s TechFLUENT	Dr.N.Kalyani, Dr.P.Sudhakar Rao, Mr.V.Vikas	-	1
JHUB-“Smart India Hackathon-2020”	Participants-196	GNITS	2
AICTE-“24-Hour Hackathon”	Participants-16	GNITS	1
Project	N Haritha, P Keerthi	IIIT Hyderabad	143
Project Title -Automatic Pothole Detection and Listing the GPS Location	Dr. Renuka Devi S M	JNTUH-TEQIP-III/ MHRD	365
Project Title- Improving Object	Y. Rakesh Kumar	JNTUH-TEQIP-III/ MHRD	365

Visibility Under Atmospheric Degradation of Haze and Fog by Adopting Deep Neural Network Model			
Embedded Systems in Internet of Things (STTP)	Dr. K Ragini	AICTE-STTP	6
Ultra Wide Band (UWB) based indoor positioning system (IPS)	Dr. R swapna	Consultancy - M/s. BIGWIG Technologies Pvt. Ltd.	730
Lecture on how to write Technical papers	Dr.I.Ravi Prakash Reddy	JNTUH-Hyderabad	1
Lecture on Data and its Relevance	Dr.S.Ramacharan	JNTUH-Hyderabad	1
<a href="#">View File</a>			

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Machine learning with python	Goal street Mr M.Sheshu 9246818840	16/05/2020	16/07/2020	Nakshatra Jilloju
Project	Automatic Street Lights	Goal street Mr M.Sheshu 9246818840	15/04/2020	30/06/2020	Sunitha Yalakamani
Project	Diabetes prediction using ML	Goal street Mr M.Sheshu 9246818840	30/04/2020	30/06/2020	Nakshatra Jilloju
Internship	Sales and Marketing Intern	The Climber - MyCaptain Mr.Shashank 9962939557	14/05/2020	13/06/2020	Vemula Vineela
Internship	Android with IoT	Goal street Mr M.Sheshu 9246818840	15/04/2020	27/05/2020	Sunitha Yalakamani
Internship	Marketing	At home/ unschool	01/04/2020	01/05/2020	Kurmeti Dathasri
Internship	Study Of	KTPS	03/10/2019	13/10/2019	Polagani

	500 MW generator Protection	Kothagudem			Harshitha
Internship	Study Of 500 MW generator Protection	KTPS Kothagudem	03/10/2019	13/10/2019	Kandukuri Manideepa
Internship	Study Of 500 MW generator Protection	KTPS Kothagudem	03/10/2019	13/10/2019	Badugala Akshaya
Internship	Machine learning Training	NIT ,Warangal	01/11/2019	03/11/2019	A.Manisha

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Infosys	09/01/2020	Infosys Campus Connect: Programming Fundamentals Database Fundamentals Python Database Integration Object Oriented Programming using Python Advanced Database Concepts	125
HIEE	16/11/2019	Internships and Projects	3
M/s. EMPIEZO IT Solutions Pvt.Ltd	21/01/2020	1. To mentor the departments in research activity 2. Startups working under various RD programs 3. To engage in mentoring innovators in developing the disruptive technologies. 4. To conduct workshops	5
M/s. Intrinsic Science Labs Pvt.Ltd	02/12/2019	1. To establish GNITS Incubation Centre (GIC) 2. Industry-level Mentorship sessions every month. 3. Internship for	39

		technical roles.	
M/s. Book My Stall	02/12/2019	1. To establish GNITS Incubation Centre (GIC) 2. To promote a product development. Industry-level Mentorship sessions every month. 3. Internship for both Technical and Business Development roles.	31
BrighTex Bio-Photonics Pvt.Ltd	25/11/2019	Create a project bank for final year students • Conducting special lectures for students at campus. • Sharing Industry oriented courseware and technology with faculty.	6
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#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
540.91	489.71

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Newly Added
Campus Area	Existing
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##### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS	Nature of automation (fully)	Version	Year of automation
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software	or patially)		
ECAP	Fully	-	2002

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	33269	18404054	592	289186	33861
Reference Books	9184	4601013	70	67869	9254	4668882
e-Books	2284853	13561	Null	Null	2284853	13561
Journals	130	195043	5	74635	135	269678

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
<b>No Data Entered/Not Applicable !!!</b>			

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#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1237	31	1	0	0	42	1195	200	0
Added	265	5	0	0	0	2	263	0	0
Total	1502	36	1	0	0	44	1458	200	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

200 MBPS/ GBPS
----------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
TINKERCAD Arduino videos	<a href="https://www.youtube.com/playlist?list=PLmgCRJJerumrtnFTWGbcOnJHp3saMWr541">https://www.youtube.com/playlist?list=PLmgCRJJerumrtnFTWGbcOnJHp3saMWr541</a>
Introduction to Embedded Systems - Definition, History, Classification of Embedded Systems	<a href="https://www.youtube.com/watch?v=m5y8Rcj_d8vQ&amp;t=661s">https://www.youtube.com/watch?v=m5y8Rcj_d8vQ&amp;t=661s</a>
Major Application Areas of Embedded Systems, Purpose of Embedded Systems	<a href="https://www.youtube.com/watch?v=fE9li1T92vI&amp;t=62s">https://www.youtube.com/watch?v=fE9li1T92vI&amp;t=62s</a>
Characteristics of Embedded Systems,	



Quality Attributes of Embedded Systems	<a href="https://www.youtube.com/watch?v=pddnct3bUOE&amp;t=366s">https://www.youtube.com/watch?v=pddnct3bUOE&amp;t=366s</a>
Core of Embedded Systems - Microprocessors - Microcontrollers - DSPs	<a href="https://www.youtube.com/watch?v=wAAPSgrpNYs">https://www.youtube.com/watch?v=wAAPSgrpNYs</a>
Core of Embedded Systems -PLDs - ASICs - COTS	<a href="https://www.youtube.com/watch?v=zTgMpwk19ys&amp;t=915s">https://www.youtube.com/watch?v=zTgMpwk19ys&amp;t=915s</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
119.05	89.31	431	355.95

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The institute adopted certain Procedures and Executed in the college for the maintenance. The following facilities are being monitored centrally: Library, Internet, website, Canteen, Transport, Hostel, EPABX with intercoms, Health Centre. Periodical meetings of In- Charges of facilities are conducted to review the functioning of each facility to make more effective and student friendly. Buildings Toilets Hygiene: Sufficient Sweepers, scavengers are recruited for each building in the campus, monitored by a supervisor. All HK staff are to give biometric attendance daily while coming and leaving from the duty. Infrastructure Maintenance: The maintenance of infrastructure facilities in the institute such as classrooms, buildings, hostels and green areas are monitored by a qualified Civil Engineer with skilled man power for civil, electrical, plumbing, carpentry horticulture works. The maintenance of equipment for water pumping plants, sewage are undertaken as per their preventive maintenance schedules, guidelines by the equipment supplier. Power Maintenance System: The Institute has 750 KVA power backup to ensure uninterrupted power supply and maintenance of electrical assets. The maintenance of equipment like Generator Sets, General Lighting, Power Distribution System, Solar Panels are undertaken as per their preventive maintenance schedules, guidelines by the equipment supplier. Transport Maintenance: A fleet of Buses, Vans and Cars are maintained by the Transport Department of the Institute under the supervision of Transport Manager. The vehicles are maintained on frequent intervals and the taxes are paid according to the law. Sports facilities: The indoor-outdoor sports facilities such as Tennis court, Volley Ball Court, Basket Ball Court, Badminton Court are monitored maintained by the well-qualified Physical director. Other Services: The institute provides various services such as Cafeteria facilities, Banking / ATMs , Laundry services, Gymnasium, Gaming Arcadia facilities, Reprographic, Photocopy services, Books Stationary facilities to the students, faculty and staff and are maintained by respective service providers as per contract. Maintenance of Equipment: The Institute has laid down guidelines and structure for the maintenance of various types of equipment as under: The Heads of the departments are looking after the repair, maintenance and upkeep of labs. Further, major laboratory equipment is under Annual Maintenance Contract for their regular preventive and corrective maintenance. The Biometric Systems, Campus Surveillance Cameras, CCTVs, other security equipment are maintained through the Admin. Department by the equipment providers. Teaching aids such as

LCD Projectors, PA Systems, Laptops, Desktops, Printers, Wi-Fi are maintained by IT department. Fire Fighting equipment in various blocks, classroom, labs, hostels, offices are maintained by Mechanical Engineering Department. The respective departments conduct a periodic audit to ensure timely corrective action for proper functioning of the various equipment gadgets. Library: Is maintained and monitored by the Library Advisory Committee. Maintenance is computerized and automated with constant up keeping. Regular swabbing of the Library floors, regular cleaning of the racks, up keeping the quality of the books. Incubation Centre: The 2,000 square feet state of the art Incubation center set up in the campus to connect future leaders students, entrepreneurs with capital, networking, mentoring and coaching support with rich infrastructure and facilities.

<https://gnits.ac.in/sites/default/files/ProceduresandPoliciesPhysicalFacilities.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	Nil	Nil
Financial Support from Other Sources			
a) National	TS Government Fee Reimbursement	1161	91532100
b) International	Nil	Nil	Nil
<a href="#">View File</a>			

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Coaching	08/07/2019	250	GNITS Faculty
Personal Counselling and Mentoring	08/07/2019	2829	GNITS Faculty
Aptitude and Attitude	08/08/2019	740	CREATE U
English Language Lab	08/07/2019	740	GNITS Faculty
To bridge the lateral entry students with the main stream EAMCET students in Mathematics	08/07/2019	66	GNITS Faculty
Personal Counselling	01/11/2019	740	Suvidha
Stress Management and Time Management	16/08/2019	740	Art of Living
Importance of	07/08/2019	740	Non Formal

learning Sanskrit			Sanskrit Education (NFSE) center
Human excellence	07/08/2019	740	IMPACT
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	GRE	27	Nil	15	Nil
2019	GATE	48	Nil	17	Nil
2019	UPSC	39	Nil	Nil	Nil
2019	Seminars on Career Counselling	Nil	285	Nil	Nil
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Adobe, ServiceNow, Commvault, JPMC, Amazon, Invesco, Thought Works, Micro n, Deloitte, TCS Digital (Through NQT), Loyalty Juggernaut, NCR, Hexagon, Accenture FSE, IHD Markit, EPAM, EZE, bank of	523	469	IBM, CTS, NIIT, tech Mahindra, Zensar	40	16

America,  
Quantium  
Analytics,  
ADTRAN,  
State  
Street, etc

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	ETE	George Brown College of Applied Arts and Technology	MS- Wireless Networking
2019	2	B.Tech	ETE	G.Narayana mma Institute of Technology and Science (for Women)	M.Tech-WMC
2019	1	B.Tech	IT	LAMAR UNIVERSITY	MS
2020	1	B.Tech	IT	SIBM,Hyder abad	MBA
2019	1	B.Tech	CSE	Rutgers University	MS (IT&A)
2019	1	B.Tech	CSE	Indiana University	MS (DS)
2019	1	B.Tech	CSE	Loughborough University	M.Sc. (IB)
2019	1	B.Tech	CSE	Rutgers University	MBS (CIS)
2019	1	B.Tech	ECE	MIT Manipal	M.Tech
2019	1	B.Tech	ECE	IIITH	MS

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	19
CAT	3
GRE	24
TOFEL	6

Any Other	24
<a href="#">View File</a>	

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Staff Events- Badminton- Men- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	10
Staff Events- Throw ball- Women- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	20
Table Tennis- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	24
Badminton- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	24
Kho Kho- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	134
Basketball- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	72
Volleyball- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	96
Throw ball- Inter Engineering colleg Sports meet for Women, VERVE-2020	National	132
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Chess winner	National	1	Nil	1725A04C9	G. Sravya Gayathri
2020	Athletics	National	1	Nil	17251A04E7	T.Naga Pranathi

	4X400 m. Relay- I					
2020	Throw ball-Winners	National	1	Nil	16251A0534	G.Tejasree
2020	Chess-Winner	National	1	Nil	17251A04C9	G. Sravya Gayathri
2020	Kho-kho-winners	National	1	Nil	17255A0213	J.Srija
2020	Volley Ball-winners	National	1	Nil	16251A12A2	P.Jagade swari
2020	Table Tennis(si)-winner	National	1	Nil	19251A05F4	L.Ramya Sri
2020	Table Tennis(D)Winners	National	1	Nil	16251A0517	G.Srija
2020	Badminton(S) Winner	National	1	Nil	19251A1272	G.Geetha Krishna
2020	Athletics-4X 100m. Relay- II	National	1	Nil	16251A0265	B.Preethi

[View File](#)

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The allround development of student is planned from first year to final year in a systematic manner .As part of student extended activities various student led clubs are constituted to build up leadership skills and to bring out the innate talents and potentials of the students to the forefront. Each club has its elected office bearers with a faculty convenor nominated . Professional student

Branches :Each student committee of the professional bodies such as IEEE,ISTE,IETE,CSI, IE coordinates and conducts the technical fest, technical activities such paper presentations, project exhibitions, Hackathons etc.

LiterariaClava and Sanskrithi: The literary and cultural clubs - organize annual intra and inter collegiate fests besides organizing various competitions on various occasions . Club Persona : To enhance the communicative skills of the students, organizes ongoing activities like role plays, skits and stage performances all through the academic years. LINC GNITS:To nurture the Leadership Initiatives for Noble Causes is a platform that exclusively works to build up leadership skills and personality development through organizing the national festivals - Independence Day, Republic Day , International Womens' Day Celebrations and World Students Day in the campus. The vision of Bharat RatnaDr.APJ Abdul Kalam is percolated through this club with the motto AapBadaoDeshKoBadao. Philanto - Photography Club :OrganisesPhoto exhibitions. Artista - Arts Club of GNITS:organizes Art Galleries displaying the students works and contributions.- Vivekananda Centre for Human Excellence: Named as 'Aarambh'that works in collaboration with Ramakrishna Mutt in taking up charity works and contributing to the social needs identified. Rotaract Club works in collaboration with the Rotaract at state and national level in organizing various awareness camps and programmes. Street Cause:Student Association

promotes and works to meet the needs and causes for the benefit of the poor and downtrodden and increases awareness among the communities . Library committee: The committee discusses the issues related to new books addition, issue timings and weekdays of issue of books, Sports committee: This committee is active with very good support to students in adding sports and games related infrastructure resulting in continuous girls overall championship in the JNTUH NSS committee: Students take up activities such as Blood donation, SwachhBharath,AarogyaBharath,Pulse Polio etc. Alumni Association: This committee organizes meeting every year .The committee is very active in contacting and updating the progress and taking the help of alumni to make the current students aware of the latest trends in the industry and also in placement preparation EDC committee: This committee is taking up activity to inspire budding engineers towards entrepreneurship by conducting interactions with entrepreneurs. Innovation Cell (I -Cell) is thus envisaged to network people, ideas, experience and resources to motivate the innovation community in the college. Hostel committee:Hostel committee decides the menu and also the quality of food Placement committee:This committee collects the database and coordinates the placement activity. Anti Ragging committee :The senior students form a committee and inform the faculty for any action required Transport committee: The committee discusses the routes, seating issues of the transport.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

No Data Entered/Not Applicable !!!

5.4.3 – Alumni contribution during the year (in Rupees) :

500100

5.4.4 – Meetings/activities organized by Alumni Association :

3

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The college has always promoted decentralization and participative management as a form of democratic governance as it believes it would result in creating an ambience favorable for overall growth of the institute. This is achieved by encouraging faculty, staff and students to contribute through participation at various levels and forums such as: 1. The College Academic Council constituted as per UGC guidelines for all execution-related and academic plans for the institution. This committee comprises all Heads of Departments and senior faculty members of the institution besides the eminent academicians professionals from various neighboring renowned institutions and industries. 2. Various Committees viz Board of Studies, Grievance Redressal committee, Women protection committee, Anti Ragging committee, Purchases committee, NPTEL/FDP Committee, ISTE, IEEE, Alumni Association, R D Committee, NSS, ISO committee, Library committee, EDC, I-Cell, College magazine committee, Hostel Committee, Canteen Committee, Cultural Committee, Transportation committee, Finance Committee, Placements Committee and IQAC committee constituted for overseeing



different operational aspects of the institute functioning is the best example of participative management in action. At any given point of time almost 90 of the faculty is involved in at least one committee. These committees define their own plans and are completely responsible for executing them.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	<p>The admission process followed in the college through two categories namely Category A (Convenor Quota) and Category B (Management / NRI Quota ) as per the norms prescribed by the state Government. 1. Category - A: In Category -A, 70 of the seats are filled through convenor quota following reservation norms specified by the government. • UG: Admissions into UG programmes in the college arte made by Convenor , EAMCET. The admissions are based on the state wide ranks obtained by students in EAMCET entrance exam. • PG: Admissions into PG programmed are based on the merit of candidates in GATE, PGECET conducted by TSCHE. These admissions are made by Convenor, PG admissions. 2. Category B : In CategoryB , out of 30 of the seats, not more than 15 seats are allowed to NRI/NRI Sponsored category. • UG: The merit criteria is decided by the state Government from Time to Time like, AIEEE/IIT JEEE Mains, EAMCET ranks, Intermediate Public Examinations (IPE) marks. • PG: The admissions are based on merit: the order of merit is GATE score, PGECET ranks for M.Tech and the left over seats.</p>
Industry Interaction / Collaboration	<p>The college has MOUs with industries to provide summer Internships, Research projects and industry visits for the students and training programs for the staff. Hackathon's are conducted in the upcoming areas. Placements are also provided.</p>
Human Resource Management	<p>Faculty members are sponsored to participate in Faculty Development /Orientation Programmes • Faculty and Researchers are encouraged to participate in national and international conferences • Timely recruitment of teaching and nonteaching staff by the management in approved /</p>



leave vacancies to ensure smooth functioning of the institution. • The performance of the faculty is assessed yearly through selfappraisal reports and appropriate recommendations are made by the Head of the Department.

Library, ICT and Physical Infrastructure / Instrumentation

GNITS Library is fully automated and operating by using eCAP: an integrated Library automation software. Library created its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed to know the availability and the status of the book with in the campus through LAN . Institute Library is subscribing online ebooks and ejournals databases as per the requirement of the institute and also AICTE. Provided IP based access and these journals can be accessed from any computer connected in the campus LAN. This facility enables the staff and students to access elearning resources such as NPTEL Lectures.

Research and Development

Faculty to obtain Research grants for conducting Research and publishing peer reviewed , Impact Factored Journals. HODs RD to sensitize and promote research activities among the faculty and the students in the respective areas of Engineering. Subscribing to journals with high impact factor, giving incentives to the faculty publishing papers in UGC approved journals, integrating research publications in the presentations in the classroom teaching are few of the initiatives taken in sensitizing to the research activities. Every faculty member is eligible to claim an amount of Rs 10, 000/ every year towards the charges for publishing of papers, registration fee for attending conferences or workshops. The faculty members who have completed PhD degree are appreciated and encouraged by providing financial incentives. Faculty members pursuing PhD are encouraged by allowing them to take long leave depending on the need.

Examination and Evaluation

The Examination scheme follows a process of continuous evaluation comprising Internal Assessments, Assignments, Seminars and Semester End Exams. • Quality of examination is maintained by forming panel members of External examiners from reputed

institutes and the standard of the question paper is maintained following blooms taxonomy. • The performance of a student in each semester is evaluated course -wise with a maximum of 100 marks for Theory (30 marks for internal examination and 70 marks for external examination) and 100 marks for Practical (30 marks for internal evaluation and 70 marks for external evaluation). For each course, two internal examinations and one external examination will be conducted. The average of the marks obtained from the two internal examinations is chosen for the award of internal assessment marks.

Teaching and Learning

GNITS encourages faculties to take part in summer trainings, FDPs, workshops, paper presentations and conferences. Students has access to NPTEL courses, IEEE Journals. To encourage bright students are given cash incentives and remedial/Maths bridge classes are conducted for weak students to improve pass percentage. Regular Counselling is done to students in a batch of 24.To bridge the gap between the curriculum and industry requirements, department conducts workshops, paper presentations, guest lectures, technical seminars, Poster presentations, Project expo, Skill tests and many more events are conducted.

Curriculum Development

Batches till 2017 academic year adhered to the regulations and curriculum prescribed by the JNTUH. GNITS has been granted UGC Autonomous from 2018 onwards for a period of 10 years. Curriculum is framed forming the committee constituting Board of Studies is constituted with Head of the Department, Senior faculty, subject experts from outside, parent university expert, alumni and representative from industry. Curriculum was structured to have clear focus on Core Courses, Laboratory Courses, Professional Electives, Open Electives, Audit Courses and Mini, Major Project Work. Seminar has been introduced to augment the research development process and enhance communication skills.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area

Details

<p>Planning and Development</p>	<p>ERP system Academic planning, timetable setting, students attendance, staff attendance, hostel students attendance, hostel room allotments, teaching assignments, teaching load distribution, teaching plans, allotment of substitutes, students promotions to the next semester, periods setting, staff leaves, staff movements, faculty feedback, faculty details report, staff increments, salary statement correspondence to students ,parents, staff alumni through emails SMS, Library information pertaining to books catalogue, book search, issue return etc., information, transportation roots, buses, students availed details available in the e-cap software which is used as a Management Information System (MIS) or Enterprise Resource Planning (ERP) system in this college.</p>
<p>Administration</p>	<p>ERP system Branches courses can be created in this module. No.of sections in each branch can be created, Academic calendar can be set, college details, Holiday, students credits, departments can be set in this module. Fee type, fee details, fee due dates can be set through this module in order to operate through the fee payment accounts modules the same. Subjects, staff working hours, student bioIDs, semester regulations, maximum marks for the internal external exams can be set through this module. Users can be created and user level permission can be set through this module. Hostel session time can be set here. Forgot password of students staff can be set through this module</p>
<p>Finance and Accounts</p>	<p>ERP system Students fee Payments can be done through this module. Receipt from govt. Scholarships also can be recorded in this module. Fee ledger class wise and branch wise, fee, dues list, fee concession list etc, can be generated. Daily fee receipts report, Cash Bank can be generated through accounts module. Transactions made through fee payment module accounts module can be edited in the accounts module transaction history.</p>
<p>Student Admission and Support</p>	<p>ERP system Student admissions data can be recorded in the admission module. Student data edit, generate of</p>

	<p>Admission Register, student rejoings, students detains entry, students transfers etc can also be done through this module. Students admission report ID Cards report year wise, course wise branch wise can be generated. ID Cards of regular students, college transportation availed students Hostel students can be generated. Students section wise allotment can be made. Scholarship availed students data can be generated. Students castes location details can be inserted in the Admission data through a linkavailable in this module.</p>
Examination	<p>ERP system Student admissions data can be recorded in the admission module. Student data edit, generate of Admission Register, student rejoings, students detains entry, students transfers etc can also be done through this module. Students admission report ID Cards report year wise, course wise branch wise can be generated. ID Cards of regular students, college transportation availed students Hostel students can be generated. Students section wise allotment can be made. Scholarship availed students data can be generated. Students castes location details can be inserted in the Admission data through a linkavailable in this module.</p>

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Ch.Leelakrishna	workshop on Application of Digital Signal processing Techniques for power electronic systems at NIT Warangal.	-	2500
2019	Mr.Badriramak rishnan	workshop on Application of Digital Signal processing Techniques for power	-	2500

		electronic systems at NIT Warangal.		
2019	Mr.P.Buchibabu	workshop on Application of Digital Signal processing Techniques for power electronic systems at NIT Warangal.	-	2500
2019	Mrs.K.V.Soumya	workshop on Application of Digital Signal processing Techniques for power electronic systems at NIT Warangal.	-	2500
2019	Mr.K.Krushna Murthy	International conference on Automatic generation control of interconnected power system at CMRCET, hyderabad.	-	10000
2019	Mr.S.L.V. Sravan Kumar	workshop on Advanced resonant converters for micro grid and electric transportation at NIT warangal	-	2950
2019	Mrs.E.Gouthami	one week FDP program on Recent advancements in renewable energy technology organised by PES college ofr Engg. Mandy, karnataka.	-	2000
2019	Dr. Renuka Devi SM	-	IEEE Membership	7140
2019	Mr.P.Suresh	International Conference on Comprehensive examination on	-	10000

		solar -windenergy systems grid integration and emerging power quality challenges at Vignana University , Guntur		
2019	Mr.P.Buchibabu	International Conference An examination on advanced MPPT methods for PV system under normal and practical shading conditions at Vignana University , Guntur	-	10000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	AICTE sponsored one week STTP on 'Modern Control Techniques in Power Systems Electric Drives'.	-	17/10/2019	22/10/2019	50	Nil
2020	A Five day online FDP on 'Recent Challenges and Emerging techniques in Microgrid'	-	16/06/2019	20/06/2019	200	Nil
2020	One day	-			200	Nil

	Online webinar titled 'Research Aspects of Electrical Vehicle Charging station and its effect on Distribution Systems'		20/05/2020	20/05/2020		
2020	Online Quiz on Covid 19: Technological and Digital Transformation for a New Era	Online Quiz on Covid 19: Technological and Digital Transformation for a New Era	23/05/2020	31/05/2020	1500	1
2020	FDP on Digital Transformation in Higher Education	FDP on Digital Transformation in Higher Education	18/01/2020	18/01/2020	182	5
2019	Embedded Systems in IOT	Embedded Systems in IOT	25/11/2019	30/11/2019	53	3
2019	NAACs New Framework for Accreditation and Assessment of HEIs: Opportunities and Challenges	-	19/09/2019	21/09/2019	80	Nil
2019	2x2 MIMO using NI USRP 2920 with hands on sessions	2x2 MIMO using NI USRP 2920 with hands on sessions	23/08/2019	27/08/2019	46	3
2020	IMPARTUS Training Program	IMPARTUS Training Program	26/05/2020	26/05/2020	38	9
2020	A 5-Day online FDP on cyber	-	28/05/2020	01/06/2020	249	Nil

security

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
AI applications in power electronics systems at MJCET, Hyderabad	4	20/01/2020	25/01/2020	6
Transformation on engineering applications at Anurag group of Institutions	2	05/01/2020	08/01/2020	4
Biomedical signal processing NITW	1	11/12/2019	16/12/2019	6
Recent advancement in renewable energy technology at PES college of Engg.	1	22/07/2019	26/07/2019	5
IoT on Embedded system at GNITS	1	25/11/2019	30/11/2019	6
Advanced simulation tools for power systems and power electronics at Anurag groups of Institutions	1	18/11/2019	22/11/2019	5
Modern control techniques in power system and electric drives at GNITS	8	17/10/2019	22/10/2019	6
Power systems at JNTUH	2	23/09/2019	27/09/2019	5
NAACs new framework for accreditation	3	19/09/2019	21/09/2019	3



andassessment at GNITS				
Advanced resonant converters for micro grid and electric transportation at GNITS	1	19/08/2019	19/08/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
202	Nil	54	11

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Contribution of EPF 2. Gratuity 3. Health Insurance 4. Study leave for professional development 5. Incentives for paper Publications/Presentations 6. Subsidized Transportation 7. Incentives for Ph.D. Awarded 8. Group personal Accident Policy as per JNTUH FFC	1. Contribution of EPF 2. ESI 3. Gratuity 4. Health Insurance 5. Subsidized Transportation 6. Group personal Accident Policy as per JNTUH FFC	1. Management Scholarships 2. Gold Medals to Academic Toppers 3. Incentives for Paper Publications/Presentations 4. Financial support for attending external events 5. Group personal Accident Policy as per JNTUH FFC

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The internal audit of accounts will be done by the committee constituted by the Principal with senior teaching non-teaching staff every year. The committee, after verification of accounts, submits the report to the Principal for follow-up action. The observations and concerns if any noticed by the internal auditors will be carried out to the accounts staff for necessary updations. Similarly, the intuition accounts are audited by qualified and experienced Audit personals every year and provide inputs to incorporate the required changes as per the statutory requirements. The external auditors issue their reports and the same will be filed for Income Tax returns.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
<b>No Data Entered/Not Applicable !!!</b>		
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6.4.3 – Total corpus fund generated

0
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## 6.5 – Internal Quality Assurance System

### 6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Audit committee formed by the Department involving external academicians (At least two)	Yes	Internal committee formed by the Institute
Administrative	Yes	Audit committee formed by the Department involving external academicians (At least two)	Yes	Internal committee formed by the Institute

### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

- In every semester, after the first mid Exams the department wise Parent Teachers Association Meetings, are conducted.
- Academic performance is analyzed and suggested to take the necessary steps to improve the performance of the students.
- Discussion on discipline and ethical values followed by students and given suggestions for the improvement of the same.

### 6.5.3 – Development programmes for support staff (at least three)

The institution has a strong network with support staff and recognizes them as they also play a critical role in the development of the college as follows:

- The institution provides funding for the needy for the purpose of self-development.
- The institution organizes skill development programs for the support staff to upgrade their skills.
- The institution organizes special Medical camps and Awareness Programmes on health-related issues for the supporting staff, so as to maintain a healthy environment.

### 6.5.4 – Post Accreditation initiative(s) (mention at least three)

Establishment of Internal Quality Assurance cell. Management Information System(E-Campus) • Autonomous Status • Strengthening ICT infrastructure online learning resources Launching of incubation and RD Centre. Purchasing of unlimited campus-wide latest version Matlab 2020.

### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants

2019	Performance Based Appraisal System	01/07/2019	01/07/2019	30/06/2020	200
2019	Mentoring System for mentoring students individually or collectively for academic and career development	01/07/2019	01/07/2019	30/06/2020	2500
2019	IQAC meeting	24/08/2019	24/08/2019	24/08/2019	16
2019	NAAC's New Framework for Accreditation and Assessment of HEI's Opportunities and Challenges	19/09/2019	19/09/2019	21/09/2019	87
2019	NIRF	30/11/2019	30/11/2019	30/11/2019	3200
2020	IQAC meeting	15/02/2020	15/02/2020	15/02/2020	15
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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Positive Wellbeing	04/10/2019	04/10/2019	180	Nil
Towards a world of equal course on Gender Sensitization	08/07/2019	20/11/2019	740	Nil
Gynaec Issues of young women and simple ways to handle them	06/08/2019	06/08/2019	740	Nil
Awareness Programmes as	08/02/2020	25/02/2020	740	Nil

Polycystic Ovarian Programme (PCO)				
Legal Services Camp	16/11/2019	16/11/2019	22	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
761621.76

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	10
Ramp/Rails	Yes	10
Braille Software/facilities	No	Nil
Rest Rooms	Yes	10
Scribes for examination	Yes	3
Special skill development for differently abled students	Yes	10

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	23/01/2020	1	Vivek Band-2020 "Be Good Do Good"	Motivational speech	14
2019	1	1	19/01/2020	1	Pulse Polio Camp	Polio vaccine	9
2019	1	1	26/09/2019	1	Blood Donation Camp	Save Life	10
2019	1	1	21/06/2019	1	International Yoga Day	Practice yoga Asanas and improve health	85
2019	1	1	07/02/2019	1	Tree Pl	Go	150

			020		antation	Green	
2019	1	1	14/07/2019	1	Street Cause(Donation of fans and water purifier)	Social Welfare	4
2019	1	1	15/08/2019	1	Project Vidhya Phase-2: Painting of Government Schools	Social Welfare	4
2019	1	1	20/08/2019	1	Project Parivartan: Task 1	Social Welfare	6
2019	1	1	25/08/2019	1	Project Parivartan: Task 2 -Establishment of Stitching Centre	Social Welfare	5
2019	1	1	28/08/2019	1	Project Parivartan: Task 3 -Awareness Program for Pregnant Women	Social Welfare	4
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#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
GNITS Code of Conduct for Students - Hand Book GNITS Code of Conduct for Staff - Hand Book	01/07/2019	GNITS Code of Ethics and Conduct for both the staff and the students is drafted and is placed on the college website: www.gnits.ac.in The Staff and Student Code of Ethics and Conduct sets out the standards of expected professional behavior of Students and Staff for building up a culturally vibrant and dynamic environment for the professional and academic pursuit. The book details the responsibilities for the individual and the

groups in the workplace and the expected conduct in a manner that contributes positively to the academic environment failing which the consequences of their actions are also documented.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

? Rain Water Harvesting Pits ? Reducing consumption of paper ? Renewable Energy Source (Solar) ? Minimize usage of plastic ? Most of the campus is being covered by greenery ? Wastewater treatment plant ? E-Waste Recycle

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice : 1 Title of the Practice: Skill Development Objectives of the Practice: The main objective of this program is to strengthen the technical knowledge of the students. This training ensures that students attain the scope of career in both their core and in IT industry. The session starts from the very first year of their curriculum and exists until their PLACEMENTS in the final year. 1. Includes Python, Java and C Tutorials and related programming lab practice problems. 2. In addition to the languages within curriculum, the newer batch gets to learn additional language - Python, which happens to be growing and on-demand in the market. 3. Timed programming tests, so as to serve as a mock test for the actual placement process. 4. Related analytics and Metrics for Training and Placement by department as well as associated faculties. 5. Students will get individual performance reports. The context: The Technical Association Activities of each department are integrated with the curriculum within the time table. The office bearers are nominated and the planned activities are conducted regularly all through the semester. The Practice: The Association activities start with first working Day and close with a Valedictory in every academic year. The technical competencies of the students are identified in conducting various competitions and quizzes. The guest faculty is invited for a talk or in conducting a workshop. A Valedictory is conducted during the end of the academic year and distribution of certificates on that day programme. Evidence of Success: The technical competencies and diverse talents of the students are brought to the forefront and were encouraged to take part in national level competitions. Some of the students explored their areas of interest to present papers in intercollegiate Technical Competitions. • Knowledge in many programming languages from their basics • The fundamental concepts of the language gets stronger • Performance evaluation for each student at the end of the session • Course completion Certificate will be provided after each course • Students will be well-trained in core concepts and will be ready to face the interview by the time they reach their final year Problems Encountered and Resources Required: To conduct the activities on regular basis. Identifying the resource persons and their availability. SALIENT FEATURES The salient feature of the skill development includes: Online Learning that helps to practice codes at anytime Training in many programming languages. Test cases that match real time problems. Training

based on core concept. Performance evaluation at the end of each session. Course certificate. Best Practice : 2 Title of the Practice: Maintenance of Student counseling Record Objectives of the Practice: ? To establish a feeling of mutual understanding between the student and the teacher. ? To give individual attention to the student to cope with the academic and professional challenges in Engineering if any. ? To assist and guide the student in academic and career planning. The context: The students with their peer pressures, parental pressures and social pressures encounter academic challenges in not being regular to the classes, not able to cope with some of the subjects offered and may loose the focus to achieve the desired results and performance.

The Student Counselor as mentor addresses such issues of each individual students and helps them to overcome the issues. The Practice: ? One faculty is assigned to 30 students as their counsellor/mentor. ? The faculty meets the student individually and addresses any issue that becomes deterrent for the academic progress of the student and records them in the Student Counselling Record. ? The attendance and the mid examination and end examination marks of the student are recorded on their Counselling Record and if any student is found irregular or with low performance is noted, they are personally counselled and are provided the professional help needed. Evidence of Success: • The student counselling provided a forum for each student to address their issues if any. • Many students felt comfortable to address their problems and to seek the help from their counsellor. • Most of the students met the objective of establishing a feeling of mutual trust and understanding between them and their counsellor. Problems Encountered and Resources Required: ? The availability of time convenient both for the student and the counsellor. ? Some students feel diffident to address their issues with the counsellor. Best Practice : 3 Title of the Practice: ASSESSMENT OF NUTRITIONAL STATUS AND BODY COMPOSITION Objectives of the Practice: ? To assess the nutritional status off the Ist year B.Tech students every year that is whether they are in under-weight, normal-weight, over weight or obese categories based on Body mass index (BMI) norms. ? To assess the body composition profile that is body fat percentage, lean body mass including visceral fat. ? To identify the Resting Metabolic Rate (RMR) of the students. The context: Proper physique and desirable composition manifests overall health, fitness and work performance. Due to modern life style patterns, including changed dietary habits and decreased physical activity levels, health and fitness levels of the students are getting affected and resulting in the rise of non-communicable diseases. Hence, this practice provides an opportunity for the students to know their nutritional status and body fat content. Resting metabolic rate (RMR) information helps to identify the calorie needs of a person. It helps to plan required intervention programs to achieve desirable body weight and body composition. The Practice: ? The height of the students is measured with a height stand with an accuracy of 0.1 cm.. ? The student details including age, gender and height in centimetres data are recorded and that data is entered in the Fat analyser ( Omron Karoda Scanner. Then the student is made to stand on the platform of the scanner by holding the hand grip of the scanner.). This instrument works on the principle of bio electrical impedance.. In few minutes, the weight , Fat percentage, BMI, body age, Resting Metabolic Rate and Visceral fat will be assessed and reading will be recorded. ? The students have been guided and counseling on their diet habits, physical fitness based on this data. Evidence of Success: • This data proved to be very useful to identify the malnourished students (Both under weight, over weight and obese ). • In addition to this , students with abnormal fat percentages have been identified.

• Such students with abnormal BMI and fat percentage are counseled and intervention programmes are provided to achieve desirable nutritional status and body composition • The RNR data is used as an important base to identify the caloric needs of the students in the formulation of dietary guidelines.. • Many staff members also check their status of BMI and fat percent and are



guided appropriately. • Many students have been suggested Physical activity guidelines to improve their overall health and fitness levels. Problems Encountered and Resources Required: ? More technical support and latest infrastructure is required to evaluate students periodically and intervention program impact can be seen and modified based on the requirement.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://gnits.ac.in/IOAC/Best%20Practices.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The Vision of the institute focuses on the empowerment of aspiring women engineering graduates through enhancing their intellectual abilities and technical competency. State of art infrastructure with upgraded software and lab facilities in enabling the technical students to have more of practical handson experience has been the exemplary work culture of the institute. The three outcomes for which the institute strives to work are: Academic Excellence, Innovation and Design and Allround development of the personality towards social responsibility and professional ethics. Academic Excellence: A high quality of the academic excellence paves way for the desired outcomes of conceptual learning and technical competency among the students. This is achieved through curriculum design in tune with the global requirement blended with innovative teaching - learning methods. Inducting the students into various technical programs and activities, guest lectures and workshops through technical associations and forums namely ISTE, CSI, IEEE enables them to develop their technical competency to work towards their career aspirations and opportunities and to achieve their desired academic and career goals. Students are educated on courses offered through MOOCS each of the semesters in tune with the courses offered through the semester. The institute also acknowledges the academic excellence of the students through scholarships, cash awards and Gold Medals during College Annual Day. Innovation and Design: The institute's vision to empower the budding women engineers towards innovation and design is visualized through their active participation in national level competitions like Hackathon, paper presentations, Project expos. The students are mentored and guided by the faculty in working competitively to stand at the national level in various technical events. GNITS ICell , RD Cell, EDC Cell conducts various workshops, seminars, guest lectures and contests to tap the potential of the students towards innovation and design. MAC lab established by M/C Apple Inc has been the Hall Mark of the Institution in providing advanced research training for the students. All round development of the Personality: The institute strongly advocates all round development of the personality to face the challenges ahead in their career and to be more professional and responsible in handling the works assigned. This is achieved through taking part in various cocurricular and extracurricular activities.. Various technical contests and competitions are conducted by department technical associations to challenge the technical competency of the students. The various studentclubs namely Literaria clava, Sanskriti, Aarambh, Philato, Lead India 2020, Artista gives the students to explore their hobbies and talents through peer interactions in turn giving them an experiential learning in connecting to the world around. The GNITS NSS takes up initiatives in collaboration with government agencies and NGOs to built up social responsibility among the students. The institute known for excellent games and sports facilities with well demarcated Throwball, indoor shuttle, Basket ball courts, Table Tennis boards, Gym to promote health and fitness among the students. The biannual college Newsletter-Sankethika Bharathi, student published magazines GGazette,



WE Magazine and the coffee table books released by the Student Clubs reflect the dynamic academic and professional ambience of the campus.

Provide the weblink of the institution

<https://www.gnits.ac.in/>

### **8.Future Plans of Actions for Next Academic Year**

1. Proposed to start new courses in Emerging areas 2. Proposed to establish Incubation Centre and Innovation Centre 3. Proposed to conduct an International Conference on Robotics Design and Applications using Wireless Sensor Networks, IOT and Artificial Intelligence 4. Proposed to conduct three FDPs in emerging technologies 5. Proposed to provide Lecture Capturing system/ Video Recording Facility 6. Proposed for the Construction of 4th Floor in Admin Block 7. Proposed for the construction of Addition Block for Hostel