Annual Quality Assurance Report (AQAR) 2017-18



G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (Accredited by NAAC of UGC with "A" Grade, Accredited by NBA (CSE, EEE & ECE), Approved by AICTE, New Delhi , Permanently Affiliated to Jawaharlal Nehru Technological University, Anantapur)

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Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

November, 2018

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THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

PART-A

1. Details of the Institution:

1.1 Name of the Institution:	S.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY			
1.2 Address Line 1	PASUPALA VILLAGE			
Address Line 2	NANDIKOTKUR ROAD			
City/Town	KURNOOL			
State	ANDHRA PRADESH			
Pin Code	518002			
Institution e-mail address	principal@gpcet.ac.in			
Contact Nos.	92469 22869			
Name of the Head of the Insti	tution: Dr.C.SrinivasaRao			
Tel. No. with STD Code:	08518 - 285011			
Mobile:	92469 22869			

Name of the IQ	Name of the IQAC Co-ordinator:			Dr.N.Rar	namurtl	ny	
Mobile:				994	840415	52	
IQAC e-mail address:				iqac@	gpcet.ac	c.in]
1.3NAAC Track ID APCOGN26610							
1.4NAAC Executive Committee No. & Date: (For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate) EC(SC)/22/A & A/25.1					& A/25.1		
1.5 Website ad	1.5 Website address: www.gpcet.ac.in						
We	b-link of the AQ	AR:		www.ş	gpcet.ac	e.in	
1.6 Accreditati	on Details:						
Sl. No.	Cycle	G	rade	CGF	PA PA	Year of Accreditation	Validity Period
1	1 st Cycle		A	3.0	3	2017	5 YEARS
2	2 nd Cycle						
3	3 rd Cycle						
4	4 th Cycle						
1.7 Date of Est	1.7 Date of Establishment of IQAC: 21-01-2017						
1.8 AQAR for the year				2017-18			

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11submitted to NAAC on 12-10-2011)

The Present AQAR is being submitted for the First Time

1.10 Institutional Status:	
University	State Central Deemed Private
Affiliated College	Yes No
Constituent College	Yes No
Autonomous college of UGC	Yes ✓ No
Regulatory Agency approved Inst	itution Yes 🗸 No
(eg. AICTE, BCI, MCI, PCI, NCI)	
Type of Institution Co-education	on Men Women
Urban	Rural 🗸 Tribal
Financial Status Grant-in-	aid
Grant-in-ai	d + Self Financing ☐ Totally Self-financing ✓
1.11 Type of Faculty/Programme:	
Arts Science	Commerce Law PEI (Phys Edu)
TEI (Edu) Engineerin	g Health Science Management
Others (Specify)	
	Tourshould Nation Trade and a least 111 1
1.12 Name of the Affiliating Univer	Sity (for the Colleges): Jawaharlal Nehru Technological University Anantapur, Ananthapuramu, AP

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / Univers	ity 🗸				
University with Potential for Excellence		UGC-CPE	E		
DST Star Scheme		UGC-CE			
UGC-Special Assistance Programme		DST-FIST	Γ		
UGC-Innovative PG programmes		Any other (Spe	cify)		
UGC-COP Programmes					
2. IQAC Composition and Activitie	s:				
2.1 No. of Teachers			09		
2.2 No. of Administrative/Technical staff	2.2 No. of Administrative/Technical staff 04				
2.3 No. of students			02		
2.4 No. of Management representatives	2.4 No. of Management representatives 01				
2.5 No. of Alumni 01					
2.6 No. of any other stakeholder and community representatives					
2.7 No. of Employers/ Industrialists 02					
2.8 No. of other External Experts 01					
2.9 Total No. of members					
2.10No. of IQAC meetings held:			04		

2.11No. of meetings with various stakeholders : No. 04 Faculty 9
Non-Teaching Staff 4 Students 4 Alumni 2 Others
2.12Has IQAC received any funding from UGC during the year? Yes _ No
If yes, mention the amount
2.13 Seminars and Conferences (only quality related)
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC
Total Nos International National State Institution Level 2
(ii) Themes Quality Practices in Teaching-Learning and Research
2.14Significant Activities and contributions made by IQAC
The following are the significant Activities and Contributions made by IQAC over the academic year in terms of Academic and Administrative Aspects 1. Monitoring the submission of quality research proposals for grants to different funding agencies 2. Implementation of Measurement of attainment of Course Outcomes and Program Outcomes for every Course 3. Establishment of a structures Internal Assessment Pattern 4. Performing Academic audits in all the departments

2.15 Plan of Action by IQAC/Outcome:

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

The following are the targets set by the IQAC cell for the academic year 2017-18 towards quality enhancement

Targets

- 1. To apply for Autonomous from University Grants Commission, New Delhi
- 2. To go for NBA accreditation in the departments of ECE, EEE and CSE
- 3. To publish good number of papers in various reputed Journals and Conferences
- 4. To improve the research activities by getting more funded projects
- 5. To increase the activities of Training and Placement Cell
- 6. To improve the number of activities being conducted for the holistic development of students

The following is the extent to which they were achieved

- 1. The application for applying for Autonomous has been submitted to UGC, New Delhi
- 2. The NBA accreditation has been completed in the 3 departments of ECE, EEE and CSE and all the 3 departments have been accredited for a period of 3 years starting from 2017-18
- 3. Good Number of papers have been published by the faculty in reputed Journals involving Elsevier, Springer etc
- 4. The College has also bagged good number of research projects from DST, India worth about 50 Lakhs
- 5. The activities of Training and Placement Cell were also increased so as to improve the technical and analytical skills of the students which will make them face the interviews better
- 6. Various number of activities in association with APSSDC, ARK Technologies were conducted in order to improve the technical skills of the students and make them industry ready

.16 Whether the AQAR was placed in statutory body Yes ✓ No					
Management	Syndicate Any o	ther body			
Provide the details of the action taken					
The Governing Body approved all the proposals and activities taken up by IQAC for the holistic development of the Institute.					

^{*} Attach the Academic Calendar of the year as Annexure.

PART-B CRITERION-I

1. CURRICULAR ASPECTS

1.1. Details of Academic Programmes:

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self- financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	4		4	
UG	5		5	
PG Diploma				
Advanced Diploma			ŀ	
Diploma				
Certificate				
Others				
Total	9		9	

Interdisciplinary	 	
Innovative	 	

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

The curriculum that is being followed at GPCET includes Interdepartmental electives and Professional electives for III and IV year students in order to fulfill their requirements. Various Certification and skill enrichment programmes are also conducted to enrich the knowledge base of the student community and also to meet the needs of industry.

Range of Core /Elective options offered by the University and those opted by the college:

GPCET offers five specializations in the areas of Engineering and Technology under UG level and four specializations in PG level. The syllabus for these specializations is prescribed by the Jawaharlal Nehru Technological University Anantapur, Ananthapuramu.

The courses are given below:

UG Courses (B.Tech)

- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- ❖ Computer Science and Engineering
- Civil Engineering
- Mechanical Engineering

PG Courses (M.Tech)

❖ M.Tech (Digital Electronics and Communication Systems)

- M.Tech (Electrical Power Systems)
- ❖ M.Tech (Computer Science Engineering)

Other PG Courses

❖ Master of Business Administration (MBA)

Elective Options at the UG level:

B. TECH –ELECTRONICS AND COMMUNICATION ENGINEERING REGULATIONS: R15

CODE	SUBJECT				
13A52301	Human Values and Professional Ethics				
13A52502	Advanced English Language Communication Skills Lab				
CHOICE BAS	CHOICE BASED CREDIT COURSE				
13A04605	Telecommunication and Switching Networks				
13A04606	Television and Video Engineering				
13A04607	Artificial Neural Networks and Fuzzy Systems				
ELECTIVE-I	(OPEN ELECTIVE)				
13A04709	Concepts of Communication Systems				
13A04710	Neural Networks & Fuzzy Logic				
13A04711	Industrial Electronics				
ELECTIVE-II					
13A04704	Digital Image Processing				
13A04705	RADAR & Navigational Aids				
13A04706	T.V Engineering				
ELECTIVE-II	Ι				
13A04803	Satellite Communication				
13A04804	Spread Spectrum Communication				
13A04805	Multimedia Communication				
ELECTIVE-IV	7				
13A04806	Bio-Medical Instrumentation				
13A04807	Speech Processing				

13A04808 DSP Processors & Architectures	13A04808	DSP Processors & Architectures
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B. TECH –ELECTRICAL AND ELECTRONICS ENGINEERING REGULATIONS: R13

CODE	SUBJECT			
13A52301	Human Values and Professional Ethics			
13A52502	Advanced English Language Communication Skills Lab			
CHOICE BASED CREDIT COURSE				
13A02605	Neural Networks and Fuzzy Logic			
13A02606	Programmable Logic Controller & Its Applications			
13A02607	Optimization Techniques			
ELECTIVE-I (OPEN ELECTIVE)			
13A02710	Optimization Techniques			
13A02711	Reliability and safety Engineering			
13A02712	PLC & Its Applications			
ELECTIVE-II				
13A02705	Instrumentation			
13A02706	Design of Electrical Systems			
13A04712	Communication Systems			
13A02707	AI Applications to Electrical Systems			
ELECTIVE-III				
13A02803	Modern Control Theory			
13A02804	Special Electro Mechanical Systems			
13A02805	Power System Deregulation			
13A02806	Switch Mode Power Converters			
ELECTIVE-IV	7			
13A02807	Reliability Engineering and Applications to Power Systems			
13A02808	High Voltage Engineering			
13A02809	Smart Grid			

13A02810 Energy Auditing & Demand side Management

B. TECH-COMPUTER SCIENCE ENGINEERING REGULATIONS: R13

CODE	SUBJECT	
13A52301	Human Values and Professional Ethics	
13A52502	Advanced English Language Communication Skills Lab	
CHOICE BASI	CHOICE BASED CREDIT COURSE	
13A050606	Big Data Technologies	
13A050607	Cloud Computing	
13A050608	Linux Administration & Programming	
ELECTIVE-I (OPEN ELECTIVE)	
13A05711	Soft Computing	
13A05712	Pattern Recognition	
13A05713	Intellectual Property Rights & Cyber Laws	
13A05714	Simulation & Modeling	
ELECTIVE-II		
13A05705	Information Retrieval Systems	
13A05706	Human Computer Interaction	
13A05707	Computer Forensics	
13A05708 Digital Image Processing		
ELECTIVE-III		
13A05802	Software Project Management	
13A05803	Software Architecture and Design Patterns	
13A05804	Storage Area networks	
13A05805	Artificial Intelligence	
ELECTIVE-IV	7	
13A05806	Parallel and Randomized Algorithms	
13A05807	Embedded Systems	
13A05808	Game Theory	

13A05809 Adhoc and Sensor Networks

B. TECH-CIVIL ENGINEERING REGULATIONS: R13

CODE	SUBJECT	
13A52301	Human Values and Professional Ethics	
13A52502	Advanced English Language Communication Skills Lab	
CHOICE BASED CREDIT COURSE		
13A01606	Finite Element Method in Engineering	
13A01607	Disaster Management and Mitigation	
13A01608	Intellectual Property Rights	
ELECTIVE-I (OPEN ELECTIVE)	
13A01709	Finite Element methods in Engineering	
13A01710	Disaster Management and mitigation	
13A01711	Architecture and Town Planning	
13A01712	Intellectual Property Rights	
ELECTIVE-II		
13A01704	Ground Improvement Techniques	
13A01705	Air Pollution and Quality Control	
13A01706	13A01706 Construction Technology and Project Management	
ELECTIVE-III	[
13A01803	Advanced foundation Engineering	
13A01804	Water Shed Management	
13A01805	Remote Sensing and GIS	
13A01806	Rehabilitation & Retrofitting of Structures	
ELECTIVE-IV	7	
13A01807	Experimental Stress Analysis	
13A01808	Pre stressed Concrete	
13A01809	Earth Quake resistant design of Structures	
13A01810	Environmental Impact Assessment and Management	

B. TECH-MECHANICAL ENGINEERING REGULATIONS: R13

CODE	SUBJECT	
13A52301	Human Values and Professional Ethics	
13A52502	Advanced English Language Communication Skills Lab	
CHOICE BASED CREDIT COURSE		
13A03605	Non-Conventional Source of Energy	
13A03606	Total Quality Management	
13A03607	Mechatronics	
ELECTIVE-I	(OPEN ELECTIVE)	
13A03711	Energy Systems	
13A03712	Total Quality Management	
13A03713	Entrepreneurship	
13A03714	Reliability and Maintenance Engineering	
ELECTIVE-II		
13A03705	Computational Fluid Dynamics	
13A03706	Mechatronics	
13A03707	Concurrent Engineering	
13A03708	Production & Operations Management	
ELECTIVE-II	I	
13A03803	Gas Turbines & Jet Propulsion	
13A03804	Tool Design	
13A03805	Tribology	
13A03806	Composite Materials	
ELECTIVE-IV		
13A03807	Modern Manufacturing Methods	
13A03808	Design of Heat Transfer Equipment	
13A03809	Mechanical Vibrations	
13A03810	Product Design	

Elective Options at the PG level:

M. TECH –DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS REGULATIONS: R17

CODE	SUBJECT	
ELECTIVE-I		
17D06105	Advanced Operating Systems	
17D06210	Low Power VLSI Design	
17D38103	Advanced Computer Architecture	
ELECTIVE-II		
17D38104	Transform Techniques	
17D38105	Statistical Signal Processing	
17D38106	Spread Spectrum Communication	
ELECTIVE-III		
17D38202	Internet of Things	
17D38203	Speech Processing	
17D38204	Software Defined Radio	
ELECTIVE-IV	7	
17D06208	Network Security & Cryptography	
17D38205	Wireless Adhoc Networks	
17D38206	Optical Communication Technology	
ELECTIVE-V(Open Elective)		
17D20301	Research Methodology	
17D20302	Human Values & Professional Ethics	
17D20303	Intellectual Property Rights	
ELECTIVE-VI (MOOCs)		

M. TECH –ELECTRICAL POWER SYSTEMS REGULATIONS: R17

CODE	SUBJECT	
ELECTIVE-I		
17D49105	Modern Control Engineering & Principles of Optimal	
	Control	
17D49106	FACTS Controllers	
17D49107	Solar Energy Conversion Systems	
ELECTIVE-II		
17D49108	Power System Wide Area Monitoring &Control	
17D49109	Energy Auditing and Management	
17D49110	State Estimation Techniques	
ELECTIVE-III		
17D49205	Reactive Power Compensation & Management	
17D49206	Power System Optimization	
17D49207	HVDC & EHVAC Transmission Systems	
ELECTIVE-IV	7	
17D49208	Distributed Generation & Micro grid Control	
17D49209	Wind Energy Conversion Systems	
17D49210	Intelligent Control Techniques	
ELECTIVE-V		
17D20301	Research Methodology	
17D20302	Human Values and Professional Ethics	
17D20303	Intellectual Property Rights	
ELECTIVE-VI	I (MOOCs)	

M. TECH –COMPUTER SCIENCE ENGINEERING REGULATIONS: R17

ELECTIVE-I		
17D25207	Software Project Management	
17D58101	Information Security	
17D58102	Distributed Databases	
17D08109	Neural Networks	
ELECTIVE-II		
17D58103	Professional Aspects In Software Engineering	
17D08206	Artificial Intelligence	
17D08104	Internals of Operating Systems	
17D58104	Multicore Architecture & Programming	
ELECTIVE-III	I	
17D25206	Internet of Things	
17D25201	Advances in Software Testing	
17D08103	Network Security & Cryptography	
17D58201	NOSQL databases	
ELECTIVE-IV	7	
17D08208	Machine Learning	
17D58202	Distributed Computing	
17D25210	Software Configuration Management	
17D58203	Natural Language Processing	
ELECTIVE-V	(Open Elective)	
17D20301	Research Methodology	
17D20302	Human Values & Professional Ethics	
17D20303	Intellectual Property Rights	
ELECTIVE-VI (MOOCs)		

MASTER OF BUSINESS ADMINISTRATION REGULATIONS: R17

CODE	SUBJECT	
ELECTIVE-I		
17E00304	Cost and Management Accounting	
17E00305	Product and Brand Management	
17E00306	Human Resource Development	
17E00307	Mobile Commerce	
ELECTIVE-II		
17E00308	Financial Institutions and Services	
17E00309	Consumer Behavior	
17E00310	Labor laws and Legislation	
17E00311	Supply Chain Management	
ELECTIVE-III		
17E00312	Investment and Portfolio Management Rural Marketing	
17E00313	Performance Management	
17E00314	Enterprise Resource Planning	
17E00315	Investment and Portfolio Management Rural Marketing	
ELECTIVE-IV		
17E00316	Auditing and Taxation	
17E00317	Advertising and Sales Promotion Management	
17E00318	Knowledge Management	
17E00319	Data warehousing and Mining	
ELECTIVE-V		
17E00403	Financial Derivatives	
17E00404	Services Marketing	
17E00405	Organization Development	

17E00406	Data Communication and Network Analysis	
ELECTIVE-VI		
17E00407	International Financial Management	
17E00408	International Marketing	
17E00409	Global Human Resource Management	
17E00410	Corporate Information Management	

Almost 10% of elective subjects are offered by Jawaharlal Nehru Technological University, Anantapur for each department. These subjects are selected from the list of the elective subjects as per the choice of the students. Further there is no liberty for the students to move from one program to another program as per the rule of the Affiliating University.

Skill Development

Apart from these the college also imparts communication skills right from first year and also training is being given by external resource persons on aptitude, verbal and reasoning

Academic Mobility

- Regular invited talks are being held for the students by external resource persons from industry/institute in order to get updated regarding the latest trends of industry
- Personality development programs are also being conducted regularly for the benefit of the students

Progression to Higher Studies

- ❖ GATE classes are being held regularly for the students from III B.Tech I Semester
- ❖ Students are also encouraged to go for higher studies by conducting various interactive sessions by experts through Training and Placement Cell of the College.

Improved Potential for Employability

- **Students** are encouraged to take assessments ratified by industry.
- Training for employability is made an integral part of overall curriculum.
- ❖ Inputs are taken from industry to upgrade the training curriculum time to time

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	9
Trimester	
Annual	

	Trimester		
	Annual		
1.3 Feedback from stake (On all aspects)	eholders* Alumni	Parents Employers	✓ Students ✓
Mode of feedback	: Online Manua	Co-operating scho	ools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The College is an affiliating College under Jawaharlal Nehru Technological University, Ananthapur, Ananthapuramu. In this regard, there has been no revision/updation of regulation and Syllabi by the University so far and as a result the college has also not carried out revision/updation of syllabi in this regard

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Not applicable

CRITERION-II

2. Teaching, Learning and Evaluation

2.1Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
153	113	18	22	

2.2 No. of permanent faculty with Ph.D.

25

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Pr	ofessors	Associate Professors		Professors ()thers		Total	
R	V	R	${f V}$	R	R	\mathbf{V}	R
12		2					

2.4 No. of Guest and Visiting faculty and Temporary faculty

03

2.5 Faculty participation in conferences and symposia

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	14	73	00
Presented papers	27	70	02
Resource Persons	00	03	02

2.6 Innovative processes adopted by the institution in Teaching and Learning:

The following are the innovative process adopted by the institution in Teaching and Learning mechanism

- ❖ The course plan for each subject is prepared by the faculty well in advance, before the commencement of the semester and they are duly checked by respective HODs. The Course file for each subject consists of Lecture schedule, notes, assignments, old question papers, content beyond syllabus, and tutorial problems with solutions, course outcomes, mapping of course outcomes with objectives, mid-term question papers and model answer scripts.
- ❖ Laboratory manuals and handouts are prepared and supplied to students at the beginning of the semester.
- Organization of workshops, seminars and quality related themes
- ❖ The usage of LCD and ICT will ensure that the students can visualize and appreciate some of the practical applications of the theoretical aspects covered by the faculty. This will ensure learning to be more interactive and dynamic.

- ❖ The Institute has also signed an MOU with Indo US Collaboration for Engineering Education (IUCEE) for the conduct of Webinars on latest technologies.
- ❖ The students are regularly motivated to participate actively in the student chapters like IE (I), ISTE and CSI etc., wherein they interact with outside world. The ISTE Faculty chapter of the college has also got "Best Faculty Chapter" award in the state of Andhra Pradesh for the year 2015-16.
- ❖ The students are regularly encouraged to design their own applications using the available equipment and software in the laboratory.
- The faculty motivates the students to participate in model making, paper presentations, software contests and various co-curricular activities in various events organized in and outside the college.
- ❖ The scientific temper among students is enhanced by providing additional laboratory hours and research activities.
- Students are also encouraged to participate in project competitions and workshops with hands-on experience.
- The guest lectures and seminars organized in the college with eminent faculty enable the students to interact with them regarding the latest developments in the technology. This creates an interest in the minds of the students for further learning processes.
- Students are encouraged to take up live/industry projects through which they come to learn about the technological advances in real time world.
- ❖ Faculty members take the help of Virtual Laboratories offered by MHRD, India to get upgraded on the latest laboratory experiments.
- ❖ Various e-journals available in the library are also being followed to get upgraded on the latest technological developments in their respective fields
- NPTEL videos offered by IITs are also being followed by the faculty to get exposed to latest technological trends
- The staff members are encouraged to participate in short-term courses, staff development programmes and workshops on advanced topics to enhance their level of knowledge.
- Various Guest Lectures/Workshops on latest topics are regularly organized for the benefit of faculty and students
- ❖ Faculty are also regularly encouraged to present papers in National and International Conferences so as to get updated on latest technological developments
- ❖ Students are also encouraged to go for Internships in order to know about the developments in the industry.
- ❖ Various co-curricular activities such as group Discussion, Seminars, Quiz, Debate, Working Model Exhibition, Technical Symposiums are also regularly arranged for the benefit of students
- ❖ Associated with Andhra Pradesh State Skill Development Corporation for advanced training in Android, Cloud, Cyber security and Business Analytics
- ❖ Career guidance and counseling for the pre-final and final year students are being organized by training and placement cell by inviting experts from the industry and professional training institutions.

2.7 Total No. of actual teaching days during this academic year	204
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, and Online Multiple Choice Questions)

Jawaharlal Nehru Technological University, Anantapur has a tradition of following good old and time-proven methodology for the evaluation of students. 30 Marks have been provided for Internal Assessment and 70 marks are to be assessed through external examinations. In the case of practical's, 25 marks are internally assessed (continuous assessment) and the rest 50 marks are assessed through external exam. The University has introduced the following reforms for better evaluation.

✓ Photo copy of answer sheet

A student applying for Photostat copy of the answer script shall apply for the same in the prescribed application form along with a fee of Rs. 1500/- (Rupees Fifteen Hundred only). If the student finds that any part of the paper has not been corrected or any total mistake, then the student can bring this to the notice of the Director of Evaluation for the required modifications.

✓ Challenge valuation

A student applying for challenge valuation shall pay a fee of Rs. 10,000/- (Rupees Ten Thousand Only). The Challenge valuation shall be carried out by an expert not less than an Associate Professor Cadre, in the Presence of the Director of Evaluation. Neither the student nor his parents/representative shall be permitted to be present during the valuation. However, the photo copies of the valued answer script (Before revaluation and after revaluation) shall be given to the student. If the increase in the marks after reevaluation is equal to or more than 15% of the maximum external marks of that particular examination, 80% of the challenge valuation fee paid by the student shall be returned to the student and marks obtained after challenge valuation shall be treated as final. If the variation of marks after challenge valuation is less than 15% of the maximum external marks of that particular examination, then the higher of the original valuation marks and the challenge valuation marks shall be treated as the final marks. In such case no money shall be returned to the student.

✓ Additional spot centers

In addition to the spot centre at JNTUA, Ananthapuramu, the University has set up additional spot centers at selected reputed institutions for administrative convenience, so that the results can be declared within a stipulated time. In this connection, our Institution has also been selected as one of the additional spot centers.

✓ Examination Management System

The University has been using a software for managing the Examination related matters like examination registration of the students in affiliated colleges, uploading of internal marks which simplified the total process of registration etc.

The following are the various evaluation reforms initiated by the institution on its own

- ✓ Slip tests and assignments are regularly conducted to assess the learning capabilities of students
- ✓ Periodical Project reviews are also carried out regularly to monitor the progress of students in carrying out the projects
- ✓ Mini projects are also designed for project based learning

The college strongly believes in continuous evaluation system (day-to-day evaluation) which is implemented effectively in all laboratories for the practical work. Viva-voce is conducted after each experiment done by the students and marks are awarded for the experimental work and viva every week. The faculty are informed to set the question paper as per the Blooms taxonomy and to set the question paper such that a balance is maintained among the tough, easy and average questions. The answer scripts are to be evaluated as per the scheme of evaluation, which is prepared by the faculty concerned. The following is the cognitive level that is being maintained while setting the Question paper

Cognition level	LOCQ	IOCQ	HOCQ
% distribution of marks recommended	20 -30%	40-50%	30-40%

LOCQ – Lower order cognitive questions

IOCQ- Intermediate order cognitive questions

HOCQ – Higher order cognitive questions.

Care is also ensured that the marks obtained by the students fit the normal distribution curve (Bell Curve). The IQAC of the institution will monitor the evaluation system of internal examination.

The students are given regular assignments and tutorial problems on the topics covered at the end of each unit of the subject. The students are also evaluated based on the marks obtained in the two internal examinations of a semester. Each internal assessment test carries 30 marks (objective for 10 marks and subjective for 20 marks). Remedial classes are also being conducted for the students who get less than 50% of the marks.

The students are also evaluated at the end of the semester by their performance in the university examinations conducted by the University for 70 Marks. In order to clear a subject, a student should obtain a minimum of 35% of the marks in the final examination and a total of 40 marks in internal and external put together. The students who get more than 70% of the total marks will be placed in First class with Distinction, between 60% and 70% will be placed in First class, between 50% and 60% will be placed in Second class, between 40% and 50% will be placed in Pass class .

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop.

None of the faculty members have been involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average Percentage of attendance of Students

87 %

2.11 Course/Programme wise distribution of pass percentage:

Title of the	Total no. of			Division		
Programme	students appeared	Distinction %	Ι %	II %	III %	Pass %
B.Tech-Civil	72	22%	55%	11%		90.27
Engineering						
B.Tech-	106	32.07%	56.60%	3.7%		92.45%
Computer						
Science						
Engineering						
B.Tech-	194	23.19%	64.43%	5.15%		92.78%
Electronics and						
Communication						
Engineering						
B.Tech-	121	20.66%	66.11%	4.13%		90.90%
Electrical and						
Electronics						
Engineering						
B.Tech-	60	25%	50%	6.6%		81.6%
Mechanical						
Engineering						
M.Tech-	4	100%	-			100%
Electrical						
Power Systems						

M.Tech-Digital	4	100%	-	 	100%
Electronics and					
Communication					
Systems					
M.Tech-	5	100%	-	 	100%
Computer					
Science					
Engineering					
MBA	89	53.93%	46.06%	 	100%

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

The main objectives of establishment of Internal Quality Assessment Cell (IQAC) in the institute are as follows:

- ❖ To form a quality system to achieve desired academic and administrative performance of the institute
- To suggest the best measures to be taken towards quality improvement through incorporation of good culture and best practices

In View of this, the IQAC of the College proposes to take up the following activities:

- Development of Quality benchmark/parameters for various academic and administrative activities of the institute.
- Organization of workshops, seminars and quality related themes.
- ❖ Documentation of various programmes/activities leading to quality improvement.
- Conducting internal quality audit periodically.
- Checking the quality of equipment in all the laboratories and giving recommendations for calibration, if necessary.
- Testing the quality of mid questions whether they are on par with University question papers and whether Bloom's taxonomy has been followed while setting the questions or not.
- * Checks the course files of the entire faculty to verify whether they are being maintained as per standards or not.
- * Recommends the necessary incentive for paper publications to the faculty, if the quality of the paper is as per the stipulated guide lines.
- ❖ Periodical meetings are carried out to study the result analysis of every batch and the steps to be taken to improve the performance of students.

2.13 Initiatives undertaken towards faculty development:

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	9
UGC – Faculty Improvement Programme	12
HRD programmes	7
Orientation programmes	0
Faculty exchange programme	0
Staff training conducted by the university	5
Staff training conducted by other institutions	8
Summer / Winter schools, Workshops, etc.	9
Others	34

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	29		01	
Technical Staff	14		03	

CRITERION – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

The IQAC has recommended establishing the following laboratories to encourage the research in the organization. The following laboratories have been established in the institution

Sl.No	Name of the Research Laboratory
1	NI Virtual Instrumentation Lab
2	Cadence Lab
3	Robotics and Automation Lab
4	3-D Printing Laboratory
5	IOT Lab

The following are the research groups formed in the institution.

SL.No	Name of the	Focused areas			
	research group				
	Communications	Cognitive radio			
1		5Gcommunication			
1		OFDM and 4Gcommunication			
		Efficient communication for telemedicine			
	VLSI&	System-on-chip Design			
2	Embedded	Reconfigurable Computing			
2	Automotive Systems				
		Smart Cities, Medical applications			
	Signal	Digital Image Processing			
3	Processing	Radar Signal Processing			
3		Bio-signal Processing			
		Speech Signal Processing			
	Software	Software Engineering			
4	Development	Software Testing			
		Optimization Techniques			
		Software Application			
	Data Mining	Data Analytics			
5		Machine Learning			
		Opinion Mining			
		Web Mining			
	Energy Systems	Solar, Wind &PV Integration.			
		Energy storage and management systems.			
6		Energy Harvesting;			
		Renewable /Alternate energy			
		Solar Thermal Energy			
		Energy Material Development			
	Power Systems	Power Quality			
7		Voltage stability			
,		Contingency analysis			
		Power Electronics			

		Smart Grid and Micro Grid
	Water and	Water Resources Engineering & Management
8	Environment	Environmental Engineering
0		Water Treatment
		Remote sensing and GIS
	Geotechnical	Geotechnical Engineering
9	and	Transportation Engineering
	Transportation	
		Micromachining
		Tool Design
	Manufacturing	Additive Manufacturing
10	and 3D	Development of Metal Matrix composites
10	Experience	Optimization Techniques
		Industrial automation
		Mechatronics
		Robotics

3.2 Details regarding major projects

	Completed	On-going	Sanctioned	Submitted
Number		02		
Outlay in Rs. Lakhs		58 Lakhs		

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

3.4 Details on research publications

	International	National	Others
Peer Review Journals	71		
Non-Peer Review Journals	01		
e-Journals			
Conference proceedings	08	52	

3.5 Details on Impact factor of publications:

 Range
 2.241 to 8.54
 Average
 4.521
 h-index
 26
 Nos. in SCOPUS
 9

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3	ISRO, SERB	58Lakhs	52Lakhs
Minor Projects				

Interdisciplin	ary	!	-				
Projects Industry spor	sored						
Projects spo							
the University							
Students	research						
projects							
(other than							
by the Univers Any other(Sp							
Total	echy)	3	ISRO, SERI	3	58Lakhs	52Lakhs	
Total		3	ISKO, SEK		OLUKIIS	32Eakiis	
3.7 No. of books published i) With ISBN No. 04 Chapters in Edited Books 04 ii) Without ISBN No. 00							
3.8 No. of University Departments receiving funds from							
	UGC-SA	P	CAS		DST-FIST		
	n			_	D. D. W. C		
DPE DBT Scheme/funds							
3.9 For colleges Autonomy CPE DBT Star Scheme INSPIRE CE Any Other (specify)							
3.10 Revenue generated through consultancy 3.11 No. of conferences organized by the Institution							
	Level	Internation	nal National	State	University	College	
	Number		1				
	Sponsoring		DST -			+	
	agencies		SERB				
3.12 No. of faculty served as experts, chairpersons or resource persons							
3.13 No. of collaborations International 01 National 01 Any other							

3.14 No. of linkages created during this year

3.15 Total budget for re	search fo	r cur	rent year ii	n lakhs:				
From funding agency	59 Lak	hs	From Mai	nagemer	nt of Universi	ity/Coll	lege	2 Lakhs
Total	61 Lak	hs	-]					
3.16 No. of patents rece			J					
		T	ype of Pater		1' 1	Nun	nber	
		Nat	ional		pplied ranted		<u>-</u> -	
		Into	umatianal		pplied		-	
		mte	ernational		ranted		-	
		Cor	nmercialise	-0	pplied ranted		-	
3.17 No. of research awards/ recognitions received by faculty and research fellows								
of the institute in the		Sinti	ons recei	ved by 1	acuity and i	Cocarci	ii iciio v	15
Total	Internatio	onal	National	State	University	Dist	Colle	ge
01	01							
3.19 No. of Ph.D. award 3.20 No. of Research scl JRF	nolars rec	•	g the Fellov		Newly enrol		xisting	
				roject r	chows		Ty Offici	
3.21 No. of students Par	ticipated	in N	SS events:	,				
University level	45	Stat	e level		06			
National level		Inte	ernational le	evel				
3.22 No. of students par	rticipated	in N	CC events:					
University level			State level					
National level			Internationa	al level				

3.23 No. of Awards won in NSS:		
University level	State level	01
National level	International level	
3.24 No. of Awards won in NCC:		
University level	State level	
National level	International level	
3.25 No. of Extension activities organize	ed	
University forum	College forum 04	
NCC	NSS 15	Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The NSS unit of the college is vibrant throughout the year taking up different activities. The NSS unit has received medals and Credentials from His Excellency, The Governor of Andhra Pradesh for Best Blood Donation Campaigns. The institution also has a NSS wing which takes up the issue of Human Rights every year which involves the students marching out in a rally and taking the oath for protection of Human Rights. The NSS wing also educates the students on various general issues like environmental protection, rain water harvesting, deforestation etc.

The NSS wing at GPCET has undertaken many community oriented programs such as blood donation camps, environmental protection, human rights, etc. The institute has an NSS team which regularly visits surrounding areas and villages where people are provided awareness on various social, moral, ethical principles and ways of life. A wide variety of programs are conducted in the college to improve social awareness and encourage the holistic development of the student.

The institution has the tradition of imparting holistic education with emphasis on environmental issues. The college sensitizes its staff and students on issues such as environment etc. by holding seminars on the relevant topics like pollution control, by planting more trees, through NSS activities etc. A Women's Grievances Redressal cell is constituted in the college and it is headed by one senior lady staff member. This cell looks after the welfare of girl students and women staff members.

The institute has an NSS Unit which organizes many social service and community development programmes and inculcates the importance of social responsibility and service in the minds of students.

S.No	Event	Date	No of participants
1	Free Medical Checkup Camp	22-07-2017	100
2	Hiroshima Day	05-08-2017	85
3	Quit India Day	09-08-2017	96
4	Independence Day	15-08-2017	94
5	Eco-Ganapathi	24-08-2017	76
6	Swamy Vivekananda	30-08-2017	85
7	Teachers Day	05-09-2017	87
8	SwachhBharath	08-10-2017	115
9	National Voluntary Blood Donation Day	14-10-2017	108
10	SwachhBharath	15-10-2017	100
11	SwachhBharath	22-10-2017	76
12	SwachhBharath	29-10-2017	83
13	RashtriyaEktaDiwas	31-10-2017	91
14	SwachhBharath	05-11-2017	56
15	SwachhBharathAwarness Program	07-11-2017	71
16	JanmabhoomiMaaVooru	02-01-2018 TO 11-01- 2018	100
17	Distict Level Nss Youth Festival 2k18	08-01-2018	100
18	National Youth Day	12-01-2018	100
19	Awarness Program By NDRF	19-01-2018	100
20	National Voters Day	25-01-2018	100
21	Republic Day	26-01-2018	86
22	World Cancer Day	04-02-2018	100
23	NSS Road Safety Awarness Program	07-02-2018	100
24	University Level NSS Youth Festival	16-02-2018	84
25	State Level NSS Youth Festival	26-02-2018 & 27-02-2018	100
26	Blood Donation Camp	15-03-2018	100
27	Chalivendram	16-03-2018	100
28	World Head Injury Awareness Day	23-03-2018	97
29	Mega Blood Donation Camp	04-04-2018	89

CRITERION – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	10.17			10.17
Campus area	Acres			Acres
Class rooms	70		College	70
Laboratories	65	3	College	68
Seminar Halls	2		College	2
No. of important equipment's	110	14	College	124
purchased (≥ 1-0 lakh) during the current year.				
Value of the equipment purchased	420.5	46.7	College	467.2
during the year (Rs. in Lakhs)				
Others	510.7		College	510.7

4.2 Computerization of administration and library

- ❖ The administration of library has been fully computerized through OPAC and the bar coding system for all the books is being implemented
- ❖ The procedure of searching, issue and return of the books has been made fully computerized
- ❖ The college has its own software for the implementation of the above procedure.
- ❖ Digital library has also been created for the benefit of the students

4.3 Library services:

	Exis	sting	Newly	added	To	tal
	No.	Value	No.	Value	No.	Value
Text Books	33353	1250764	544	259097	33897	12766744
		7				
Reference Books	2713	1058437	198	115975	2911	1174412
e-Books	253		91	473379	344	473379
Journals	206	335690	126	258230	332	613920
e-Journals	8471	1024885	2939	70800	11410	1095685
Digital Database						
CD & Video	14841	50000			14841	50000
Others (specify)	Delnet	16500	Delnet	13750	Delnet	30250
	ASTM	49604			ASTM	49604
	Digital				Digital	
	Library				Library	

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart -ments	Other s
Existing	590	14	100 MBPS	14	14			
Added	120							
Total	710	14		14	14			

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

Good amount of training is provided to the teachers by making them attend various faculty development programmes so that they can in turn train the students in the latest technologies. Good amount of Internet access is also provided to the students so as to access the latest technologies involving MOOCS, Spoken Tutorial etc. The computer labs are also available to the students beyond the college hours in order to make use of the internet facilities and learn about the latest technologies

4.6 Amount spent on maintenance in lakhs:

i) ICT	36.35
ii) Campus Infrastructure and facilities	136.34
iii) Equipment's	46.7
iv) Others	21.6
Total:	240.99

CRITERION – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC of the College proposes to take up the following activities:

- ✓ Conduct orientation programs for I B.Tech students to create awareness about the curriculum
- ✓ Development of Quality benchmark/parameters for various academic and administrative activities of the institute.
- ✓ Organization of workshops, seminars and quality related themes.
- ✓ Documentation of various programmes/activities leading to quality improvement.
- ✓ Conducting internal quality audit periodically.
- ✓ Checking the quality of equipment in all the laboratories and giving recommendations for calibration, if necessary.
- ✓ Testing the quality of mid questions whether they are on par with University question papers and whether Bloom's taxonomy has been followed while setting the questions or not.
- ✓ Checks the course files of the entire faculty to verify whether they are being maintained as per standards or not.
- ✓ Recommends the necessary incentive for paper publications to the faculty, if the quality of the paper is as per the stipulated guide lines.
- ✓ Periodical meetings are carried out to study the result analysis of every batch and the steps to be taken to improve the performance of students.
- ✓ Conduct regular alumni meets to take the inputs from the passed out students and implement the recommendations.

5.2 Efforts made by the institution for tracking the progression

The institute takes necessary steps to provide the necessary training for the students in preparing for the competitive exams. Good number of books on career guidance and competitive examinations are also available in Library. Training and Placement Cell of the college organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Cell also caters to the needs in career guidance of students besides organizing training and placement activities regularly. Students are given necessary information and direction on various career options available for them according to their stream.

The institution is always committed to bring down the failure and dropout rates. Generally it has been observed that the socio economic, cultural and psychological issues contribute to the failure and drop out factor. To deal with the socio-cultural problems, the career guidance& counseling cell and grievance cell addresses the problems of the students. Remedial classes are also being conducted for the slow learners. Parents of the students are also invited to the college to have positive discussion about their ward with the HOD, senior professors, and student mentor concerned. The purpose is to serve the students and their parents with the solutions to any problem being faced by the student in academics. There have been instances where such moral support and advice offered to the students has put him /her back on the track of studies.

The college encourages the students to take part in both co-curricular and extracurricular activities. The students are also encouraged to take part in various sports, games, cultural and other extracurricular activities. Every year IGNITE, KALANJALI and UMANG programs are conducted for the students which include all types of sports, cultural and other extracurricular activities.

5.3 (a) Total Number of students

PG	Ph. D.	Others
214		

(b) No. of students outside the state

(c) No. of international students

Men

No % 1409 60.42

Women

No	%
923	39.57

Last Year					This Year						
Genera l	SC	ST	OBC	Physically Challenged	Total	Gener al	SC	ST	OBC	Physically Challenged	Total
808	289	19	1267		2383	767	309	17	1239	-	2332

Demand ratio

N/A

Dropout %

0.6%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The institute takes necessary steps to provide the necessary training for the students in preparing for the competitive exams. Good number of books on career guidance and competitive examinations are also available in Library. Training and Placement Cell of the college organizes seminars and workshops in soft skills to orient and train the students towards career and higher education. The Cell also caters to the needs in career guidance of students besides organizing training and placement activities regularly. Students are given necessary information and direction on various career options available for them according to their stream.

A committee has also been formed comprising of faculty of all departments who meet regularly to discuss the various steps to be taken for the benefit of students.

S. No	Name	Designation	Depart ment	Role	Contact No	
1	Mr.SVinayBabu	Assoc.Prof.	CE	Dept Coordinator	9494483052	
2	Ms.PPavithra	Asst.Prof.	CE	Member	8142719234	
3	Mr. ShaikJaveed	Asst.Prof.	ME	Dept Coordinator	9700622941	
4	Mr. A Sreekanth	Asst.Prof.	ME	Member	9652032966	
5	Ms.R E Ravalika	Asst.Prof.	ME	Member	8886561487	
6	Mr.G. PanduRanga Reddy	Assoc.Prof.	EEE	Dept Coordinator	7416362089	
7	Mr.S.Sankara Prasad	Asst.Prof.	EEE	Member	8985033820	
8	Mr.TTirupal	Assoc.Prof.	ECE	Dept Coordinator	9491236447	
9	Mr.A. Swetha	Asst.Prof.	ECE	Member	8885155880	

10	Ms.B.Geetha Rani	Asst.Prof.	ECE	Member	9052411355
11	Mr.VSrinivasaArun Kumar	Asst.Prof.	ECE	Member	9492410507
12	MrP.SumanPrakash	Asst.Prof.	CSE	Dept Coordinator	9949766760
13	MrD.Jayanarayana Reddy	Asst.Prof.	CSE	Member	9985836465

The following are the various functions of the committee

- ✓ To provide the necessary information about various competitive examinations to the students.
- ✓ To organize the coaching classes to various competitive exams such as GATE, TOEFL, IES and IELTS etc.
- ✓ To ensure that the students possess the required study material of reputed coaching centers for competitive examinations.
- ✓ To provide information about various careers available in the competitive world.
- ✓ To organize various career development seminars and workshops.
- ✓ To invite experts from various companies to interact with students.
- ✓ To train the students in soft skills and personality development which are essential for employment and successful career.

No. of students beneficiaries	400

5.5 No. of students qualified in these examinations

NET		SE	T/SLET	G.A	ATE 15	CAT		
IAS/IF	PS etc		State PSC		UPSC	 (Others	

5.6 Details of student counselling and career guidance

- The institution does have a structured mechanism for career guidance and placement of its students. The following procedure is being followed for the placement of students.
 - ✓ Notification is being sent to III year II semester students, regarding the Placement registration.
 - ✓ Training will be given to all the registered students on aptitude, reasoning, English and soft skills in the inter semester break of III –II and IV I semesters.
 - ✓ Online Mock tests will also be conducted for the students to have practice, after the students are being trained thoroughly. Only the students who perform well in these mock tests will be permitted to go to the next level training like interview skills, psychometric tests etc.
 - ✓ The students whose performance does not match the desired level will be provided additional training.
 - ✓ Generally the Campus recruitment drives will be conducted in the IV B.Tech I semester. The students who have been selected will be permitted to appear for the next drive only as a dream option if the package is higher.

The college has a full-fledged T & P department and the Placement Officer monitors and organizes continuously the training and placement activities. The following are the various activities conducted by the Training and Placement cell for the benefit of students.

- ✓ To identify and contact relevant and good industries / companies relating to IT and Core sector.
- ✓ To provide career guidance and training to the students and make them competent to succeed in various competitive exams

- ✓ The Cell also conducts special training classes on English Language and Communication Skills to improve the communication skills of students which helps the students to improve their technical presentation and interview performance skills.
- ✓ Regular training on aptitude and soft skills is provided to the students both by the external and internal resource persons.
- ✓ Special customized training based on Industry requirement is also provided to final year students before the commencement of recruitment process.

No. of students benefitted

1200

5.7 Details of campus placement

	Off Campus		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
28	440	164	14

5.8 Details of gender sensitization programmes

The Institute has also formed a separate Women's Grievance cell, which looks into the problems faced by female staff & students. Utmost care is being taken in the institute to ensure that there is no gender discrimination in the college.

The duties and responsibilities of Women's Grievance cell can be listed as below

- ✓ To deal with the issues of Gender based violence
- ✓ To conduct various gender sensitization programmes
- ✓ To look after Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and students

S.N	Name	Designation	Department	Role	Contact
О					
1	DrC.Srinivasa Rao	Principal	EEE	Chairman	92469922869
1	DrT.Sujatha	SrAsst Professor	H & S	Convenor	9949841856
2	B Suneetha	Asst Professor	H & S	Member	9490553705
3	J Ushasri	Asst Professor	CE	Member	9000375244
4	K Lakshmi	Asst Professor	CSE	Member	9705199987
5	D Gowthami	Asst Professor	EEE	Member	9951118245
6	A Swetha	Asst Professor	ECE	Member	8885155880

5.9 Students Activities 5.9.1 No. of students participated in Sports, Games and other events 24 State/ University level National level International level No. of students participated in cultural events 7 32 State/ University level National level International level 5.9.2 No. of medals /awards won by students in Sports, Games and other events Sports: State/ University level National level International level Cultural: State/ University level National level International level 5.10 Scholarships and Financial Support Number of Amount students Financial support from institution Financial support from government 1507 Rs 6,00,35,000 Financial support from other sources of students who International/ National recognitions 5.11 Student organised / initiatives National level International level Fairs : State/ University level 02 03 Exhibition: State/ University level National level International level 02 02

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: NIL

15

CRITERION – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

The college consists of well-designed infrastructure and is ably supported by well qualified, reasonable blend of experienced and young faculty who involve themselves in teaching and research. The overall ambience of the college provides best place for teaching-learning experience. Further, all the stake holders of GPCET work in the framework of its well defined Vision, Mission and Quality Policy.

<u>Vision:</u> To prepare professionally superior and ethically strong global manpower in technology and management to serve the nation and the world in the 21st century.

<u>Mission:</u> To strive hard in training the students with the current technology and motivate them to take up research problems and innovations associated with personality development programs to meet the challenges in this competitive world in an efficient manner

6.2 Does the Institution has a management Information System

The institution employs college Management System software which makes administration simple. Every stakeholder will get information he / she needs by the click of a button. E-governance College management System software is being employed for on line attendance, Student – faculty interactions, communication with parents, Faculty – Management interaction and so on.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

G.Pullaiah College of Engineering and Technology (GPCET) offers B.Tech, M.Tech and MBA courses approved by All India Council for Technical Education, New Delhi (AICTE) and is permanently affiliated to Jawaharlal Nehru Technological University Ananthapuramu (JNTUA). The syllabus and the overall guidelines are laid down by the affiliating university JNTUA. Generally Effective implementation of the curriculum is the core objective of the teaching learning process. Hence immense importance is given and attention is paid towards the development and deployment of action plans towards its effective implementation. The following are the various means with which the effective implementation of the Curriculum is done at GPCET.

- ✓ Allotment of Subject according to Preference
- ✓ Online Activity Diary
- ✓ Faculty meeting and assessing their inputs
- ✓ Course material
- ✓ Methods of Content Delivery
- ✓ Continuous Assessment through internal examinations
- ✓ Regular Student interaction and suggestions
- ✓ Plan of Action by the Heads of Departments
- Training Activities

Participative Approach is adopted by the college in order to develop the action plan. The faculty of the department is instructed to choose the subjects that they are interested in based on their specialization by the Head of the Department at the beginning of each semester. Once the subjects have been finalized the

faculty concerned prepares the plan of course coverage, tutorial questions, lecture notes and submit to the Head of the department for his/her approval. The compatibility of each course material is thoroughly verified at the beginning of each semester. Based on the number of working days in the semester every department plans its activities in order to support the curriculum. The Head of the department plans various training programs, student development activities in consultation with the faculty and class representatives. The Principal along with the Head of the Department meets the class representatives of every class once in a month to discuss about the curricular and co-curricular aspects, review of syllabus completion.

In order to integrate the academic programmes and Institution's goals, the following are the various initiatives considered to supplement the University's curriculum.

- ✓ The various gaps in the curriculum are identified by the faculty and topics are included in the delivery content to bridge these gaps
- ✓ Various Guest lectures, seminars, workshops are regularly arranged to create awareness on the current demands of industry.
- ✓ Spoken English classes are also being held regularly to improve the communication skills of students.
- ✓ NSS also plays a major role in inculcating social responsibilities and orientation at community level among the students.
- ✓ Various short term training programmes are also conducted by the institution to the students in order to supplement the curriculum provided by the university.
- ✓ Additional experiments are also being performed in the laboratories beyond University prescribed experiments to enrich the students.
- ✓ The library is also well stocked with enough number of books and journals.
- ✓ The students are also encouraged to take up mini projects/internships during their semester break in order to enrich their practical knowledge

6.3.2 Teaching and Learning

- ✓ The teachers are provided with modern teaching aids for better translation of thoughts into expression.
- ✓ The teachers are also encouraged to change the traditional way of teaching to modern way practices through the usage of LCD projectors, digital boards (smart boards) etc.
- ✓ Seminars, Conferences and Faculty development programs are regularly conducted in the college to motivate the faculty for a creative and continuous teaching-learning environment.
- ✓ GPCET also strongly believes in the implementation of ICT (Information and Communication Technology) methods in teaching.
- ✓ Various online resources like Journals, NPTEL videos, MOOCS and simulation software's are also being made available to the faculty for their improvement.
- ✓ The faculties are also encouraged to attend various seminars, conferences and faculty development programs to enrich their research knowledge and publish in reputed journals with good impact factor and citation index.

6.3.3 Examination and Evaluation

The college strongly believes in continuous evaluation system (day-to-day evaluation) which is implemented effectively in all laboratories for the practical work. Viva-voce is conducted after each experiment done by the students and marks are awarded for the experimental work and viva every week. The faculty are informed to set the question paper as per the Blooms taxonomy and to set the question

paper such that a balance is maintained among the tough, easy and average questions. The answer scripts are to be evaluated as per the scheme of evaluation, which is prepared by the faculty concerned. The following is the cognitive level that is being maintained while setting the Question paper

Cognition level	LOCQ	IOCQ	HOCQ
% distribution of marks recommended	20 -30%	40-50%	30-40%

LOCQ – Lower order cognitive questions

IOCQ- Intermediate order cognitive questions

HOCQ – Higher order cognitive questions.

Care is also ensured that the marks obtained by the students fit the normal distribution curve (Bell Curve). The IQAC of the institution will monitor the evaluation system of internal examination.

Formative assessment

The students are given regular assignments and tutorial problems on the topics covered at the end of each unit of the subject. The students are also evaluated based on the marks obtained in the two internal examinations of a semester. Each internal assessment test carries 30 marks (objective for 10 marks and subjective for 20 marks). Remedial classes are also being conducted for the students who get less than 50% of the marks.

Summative Assessment

The students are also evaluated at the end of the semester by their performance in the university examinations conducted by the University for 70 Marks. In order to clear a subject, a student should obtain a minimum of 35% of the marks in the final examination and a total of 40 marks in internal and external put together. The students who get more than 70% of the total marks will be placed in First class with Distinction, between 60% and 70% will be placed in First class, between 50% and 60% will be placed in Pass class .

6.3.4 Research and Development

The institution has more passion for research and development activities and encourages the faculty and students to actively participate in research oriented activities. Hence in this regard a separate Research and Development committee has been constituted to assist and observe research activities. Separate budget for R & D is also being sanctioned every year to promote and encourage research activities.

The institution has an enthusiastic team of Research Committee comprising of all senior faculty from various departments and is very active in guiding both faculty and students to pursue research in leading edge technologies as well as project works.

A senior faculty member has also been nominated in the department to look after the various research activities in the department.

Research and Development Committee:

S. No	Name	Designation	Department	Role	Contact No
1	DrC.SrinivasaRao	Principal	EEE	Convenor	9246922869

2	Dr. S.Prem Kumar	HOD	CSE	Member	9866504950
3	Mr. M.Giridhar Kumar	HOD	Corporate Affairs	Member	7799696385
4	Dr.K.E.Srinivasa Murthy	HOD	ECE	Member	77998888427
5	Dr.M.Rama Prasad Reddy	HOD	EEE	Member	7799888426
6	Mr. Syed AfzalBasha	HOD	CE	Member	9885681573
7	Mr. G.Sashi Kumar	HOD	H&S	Member	7799696386
8	Dr.B.Venkateswarlu	HOD	ME	Member	9848070532
9	Dr.VVijaya Kishore	Professor	ECE	Member	8499918303
10	Dr.N.Ramamurthy	Professor	ECE	Member	9948404152
11	Dr. K.Mallikarjuna	Profssor	ME	Member	7660916753
12	Dr. K.C.T Swamy	Assoc Professor	ECE	Member	9848070532
13	Dr.K.SudhakarBabu	Assoc Professor	EEE	Member	7382163424

Functions of Research and Development Committee:

- ✓ To identify the potential areas of research in various disciplines of engineering and form the faculty into various clusters based on their specialization.
- ✓ To prepare and submit proposals to government agencies like AICTE, UGC, DST, IE(I) etc for obtaining funded projects.
- ✓ To encourage multi-disciplinary research internally within the institute and externally with other organizations.
- ✓ Encourage the staff to attend/publish papers in various National/International conferences of their specialised areas.
- ✓ To coordinate the research activities among the various departments of the college.
- ✓ Encourage the faculty to attend various research oriented Faculty development programmes.
- ✓ Encourage and motivate the staff to apply for Ph.D at various Universities.
- ✓ To encourage the staff to publish their research works in reputed journals that have good impact factor and are Scopus indexed.
- ✓ To plan for resource mobilization through industry interaction, consultancy and Extramural funding.
- ✓ Scrutinize the student's project proposals and send them to various agencies for financial support and recommend the suitable projects.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The college believes that the library is the epicenter of learning processes.

- ✓ The students are also allotted a library hour in their normal timetable and also the library is kept open beyond the working hours for the benefit of students and faculty
- ✓ The faculty also regularly encourage the students to make use of library resources in an optimum manner

The library supports the teaching learning process by offering various services like

✓ Online Public Access Catalogue (OPAC)

- ✓ Reprographic Service
- ✓ Book Reservation
- ✓ Internet Access
- ✓ Reference Service
- ✓ Competitive Examination Books
- ✓ Multimedia Service
- ✓ Old(Previous years) Question Papers from the University
- ✓ Online Book Renewal
- ✓ Digital Library- E-Books, E-Journals & E-Lectures
- ✓ Book bank facility for SC & ST students

The library is fully computerized using OPAC system covering almost all the functions of library. All the books are bar-coded in the library & barcode laser scanners are used in the circulation counter for quicker book transaction. The college has a central library with carpet area of 400 sq m. and with all modern facilities. The library has the following resources:

- ✓ Titles: 2220
- ✓ Total No. of Volumes: 31267
- ✓ CD Roms: 280 ✓ e- Journals: 2939 ✓ Print Journals: 26 ✓ Digital Library
- ✓ Number of Computers: 22 with multimedia and Internet facility Broad Band internet Connectivity.
- ✓ E-Learning Material: NPTEL and other Video Courses about 200+

The students are encouraged by the faculty to make use of reference section and internet to collect additional information beyond curriculum.

6.3.6 Human Resource Management

- ✓ The College has adopted a self-appraisal method to evaluate the performance of the faculty in teaching, research and extension programmes at the end of each semester. Based on the overall performance the faculty are appreciated or counseled to do better in the next semester.
- ✓ The institute has also adopted transparent policies and procedures for welfare of the employees.
- ✓ It also maintains good faculty-student ratio and cadre ratio as per the norms.
- ✓ It also has a well-defined internal promotion policy for career advancement.
- ✓ Regularly conducts training programs for skill development and personality development of employees.
- ✓ EPF facility is also extended for welfare of employees.

6.3.7 Faculty and Staff recruitment

The college recruits qualified, experienced and capable faculty well before the start of academic year and also as and when the need arises and thus maintains a good faculty student ratio as per the AICTE norms. A systematic procedure is being followed for the recruitment of the faculty as given below:

Assessment and identification of the need of the staff by each department well

before the start of every academic year



Advertising regarding the faculty requirement in National/Regional Newspapers



Scrutiny and short listing of the resumes by the departments



Interviews by selection committee which includes Senior Professors from

University



Short listing of the Candidates and giving offer letters

6.3.8 Industry Interaction / Collaboration

In order to increase the interaction with industry, experts are regularly invited from various fields to deliver guest lectures and industrial visits are also arranged. The Training and Placement cell of the college organizes various seminars for the benefit of students. As a part of this the institute has made collaborations with the following companies for providing training to the students.

- ✓ Oracle University for Work Force Development
- ✓ Association with TCS ION
- ✓ Association with TPO Tech
- ✓ Association with Aspiring Minds
- ✓ Association with Cocubes
- ✓ Association with Monster

6.3.9 Admission of Students

The admission process is based on the guidelines provided by Andhra Pradesh State Council for Higher Education (APSCHE). An advertisement will be issued in leading national/regional daily newspapers during the admission time which contains detailed information about the courses, intake of students, eligibility criteria etc., and the information regarding the college is also made available through

- ✓ The prospectus which gives the complete information about the college which includes courses available, facilities, staff details, rules and regulations etc...
- ✓ The college website http://www.gpcet.ac.in which is updated on a regular basis gives the updated and detailed information about the college.
- ✓ Convenor Quota Students are selected through EAMCET, a common entrance test conducted by the government whereas the Management Quota seats are filled by the College Management strictly following the guidelines laid down by the state government.
- ✓ Application form is made available in the college website which can be downloaded and filled in applications for B category seats can be submitted in the form of hard copy at college office

The college admission is done through the counselling which is held at the Government/ University level. The allotment of students to the college is done through the admission committees in the counseling centres. Thus the transparency is guaranteed and maintained all through the process from the start of the notification till the end of admission. Further the admissions committee of the college also ensures that admissions are based on the guidelines of APSCHE and utmost transparency is maintained in the entire process.

6.4 Welfare schemes for students, teaching staff and non-teaching staff

The College provides counselors to guide the students and bus facility to the surrounding areas of the college. There are specific provisions of welfare schemes for the students in the college. Some of the welfare schemes made available to students by the institution are as below.

- ✓ Every Care is taken to ensure that the Scholarships to all deserving students are being disbursed to them
- ✓ Cash Awards are also provided every year to the toppers of each department.
- ✓ Good Primary health care facility is also provided on the campus for the benefit of students.
- ✓ Students who are meritorious and economically weak are exempted from tuition and hostel fee The college is committed to faculty welfare and it offers a platform for the talented and the aspiring. GPCET has implemented following social welfare schemes.
 - ✓ GPCET has been giving due importance to staff welfare. All the regular employees are covered by Provident Fund.
 - ✓ The Women faculty are also provided maternity leave.
 - ✓ Support is also given to the faculty for attending seminars, conferences, workshops, training programmes, and faculty development programmes etc by considering their absence as On-Duty.
 - ✓ Subsidized Bus Transport is also provided for teaching and non-teaching staff.
 - ✓ The faculty who obtain higher qualification while serving in the institute are rewarded with Monetary and career Advancement benefits.

6.5 Total corpus fund generated	N/A				
6.6 Whether annual financial audit l	nas been d	one Yes	٧	No	

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	BMQR Certification Agency	Yes	Faculty
Administrative	Yes	BMQR Certification Agency	Yes	Faculty

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes: N/A

For PG Programmes: N/A

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

The college is affiliated to Jawaharlal Nehru Technological University, Ananthapur and as a result, it does not have any authority for Examination Reforms

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

The institute has an alumni association which regularly keeps in touch with the alumni and enquires about their progress. The detailed data base of all alumni with information about their employment, their employers and nature of present work, contact address, phone/mobile number and email IDs is also maintained by the association. Regular alumni meetings are also being held for the interaction with students. The members of college administration and the faculty of all the departments normally participate in the annual alumni meetings along with the alumni and seek their advice and support for the development of the institution. Each department maintains the data base of the students and thus interacts with them through mails etc.

The following is the contribution of Alumni to the development of the institution.

- ✓ Organizing and arranging Guest lectures for the benefit of students.
- ✓ Providing Training on latest technologies.
- ✓ Helping the placement cell for arranging placement drives

The alumni committee headed by Mrs.B.Sunitha, takes the following responsibilities.

- ✓ To post updates regarding activities of college in social networks.
- ✓ Contact students to know about their designations, and their employers.
- ✓ To invite for giving motivating lectures to the students.
- ✓ To arrange guest lectures by the alumni to make the students understand the requirements of the corporate companies.
- ✓ To arrange industry institute based awareness programs by alumni.
- ✓ Gather the information of passed out students pursuing higher degrees.

6.12 Activities and support from the Parent – Teacher Association

The college arranges orientation programme to the students admitted in B.Tech programme along with their parents. Such programmes are useful in educating the aspiring students on the admission procedure and to create awareness about the B.Tech courses and how it is different from intermediate level studies.

The college regularly conducts parent's meetings, collects feedback from parents periodically along with the exit feedback taken from outgoing students

Regular parent meetings are also being conducted to inform the parents about their ward's progress and also the outcomes of parent's meetings are also considered while forwarding suggestions to the Board of Studies.

6.13 Development programmes for support staff

SL.No	Name of the Program	Dates of the	Venue	Number of
		Program		supporting staff
				benefited
1	Training on Analog Discovery	19/08/2017 to	G.Pullaiah College	
	Kits	20/08/2017	of Engineering and	05
			Technology,	03
			Kurnool	
2	MS office	15/12/2017	G.Pullaiah College	
		to17/12/2017	of Engineering and	15
			Technology,	13
			Kurnool	
3	Lab View	10/02/2018 to	G.Pullaiah College	
		11/02/2018	of Engineering and	05
			Technology,	03
			Kurnool	
4	Networking	05/05/2018 to	G.Pullaiah College	
		09/05/2018	of Engineering and	15
			Technology,	13
			Kurnool	

6.14 Initiatives taken by the institution to make the campus eco-friendly

Energy Conservation:

Energy Audit and analysis was conducted by the Electricity department and a report was indeed submitted. Accordingly, the following works have been implemented for the conservation of energy.

- ✓ Effort is being made to replace majority of Copper chokes in tube lights to electronic chokes which consumes less energy.
- ✓ Capacitor banks are also being used to improve the power factor.
- ✓ Auto cut off timers are being used in Air conditioners in Computer labs.
- ✓ Continuous monitoring mechanism is available in the institution to avoid unnecessary usage of fans, lights, systems, Air conditioners etc, thereby reducing the power consumption.

Usage of Renewable energy:

Efforts are being made to install solar plants in the college campus in order to make use of solar energy instead of Electric energy. The quotations have also been procured and the work regarding the installation has been started

Water Harvesting:

- ✓ Effort is also being made to install rain water harvesting system in the college campus.
- ✓ Soak pits are also provided at the appropriate points in college campus.
- ✓ The collected water from various buildings is pumped to tank and the same is being used in watering the trees and lawns.
- ✓ Water conservation methods are also adopted by the college by using spring loaded stopper taps to minimize water losses.

Efforts for carbon neutrality:

- ✓ The campus has been filled with trees and lawns.
- ✓ Buildings are also surrounded by open space and wet agricultural land, which provides fresh air in the campus.

- \checkmark Automobiles are not permitted inside the campus except a few, to keep the campus pollution free. Thus the carbon neutrality is also being maintained by making campus pollution free and the reduction of CO_2 release is also being reduced.
- ✓ Students are encouraged to use college bus, thereby reducing the usage of personal vehicles by students in order to reduce the carbon emission.

Plantation:

- ✓ Plantation drive under NSS and other similar initiatives are regularly being conducted in the campus.
- ✓ New plantation and upkeep of existing plants is being carried out on regular basis.

Hazardous waste management:

✓ The chemicals employed in various labs are also disposed off at a place far away from human locality.

E-Waste Management:

✓ Computers, Printers and other ICT equipment which cannot be used are sold to vendors who do the recycling.

CRITERION – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The following are the innovations that have been introduced during the last four years that have created a positive impact on the functioning of the college

✓ Biometric Attendance system

This has created a positive impact on the system with the fact that it makes the staff be regular to the college and also it eliminates the wastage of paper.

✓ Training the students through Programming Work Bench

Effort is being made to train the students on problem solving using IT through a novel concept called Programming work bench which will expedite the learning process of programming

Implementation of Electronics Work Bench

The students are also made to work on electronics work bench, a circuit board wherein the student will be able to work on various circuits and observe their response to various inputs simultaneously.

✓ e-governance

The institution employs college Management System software which makes administration simple. Every stakeholder will get information he / she needs by the click of a button.

Innovation is encouraged in designing new experiments using existing laboratory equipment and also design and fabricate a new laboratory setup

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

The following were the various activities which were planned at the start of the academic year by IQAC of the college along with their action plan

Activity Planned	Status of Activity / Action Taken
Academic Schedule	Necessary steps were taken to ensure that the
	academic calendar is strictly followed
Delivery of Course	The delivery of Course has also been carried out as
	per the lesson plan prepared by the faculty
Conduct of Workshops/Seminars/Guest Lectures/	Various Workshops/Seminars/Guest Lectures/
Training programs on latest technologies	Training programs on latest technologies have been
	conducted for the benefit of students and faculty
Applying for proposals to various funding agencies	Good Number of proposals have been submitted to
	various funding agencies
Apply for Autonomous Status	The necessary application for grant of Autonomous
	status has been submitted
Preparation for NBA visit in 3 departments (ECE,	Good amount of preparation has been carried out
EEE and CSE)	for NBA visit in 3 departments (ECE, CSE and
	EEE) and NBA visit has also been carried out. All
	the 3 programs have been successfully accredited

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

The following are the two best practices of the institution that have contributed to the achievement of Institutional Objectives of the college

Two Best Practices of the institution are

- 1. Implementation of innovative methods in teaching & learning process
- 2. e-Governance

BEST PRACTICE -1

Title of the Practice: Implementation of innovative methods in teaching – learning process

Goal of the Practice:

- ✓ Driving the concepts home through project based learning approach
- ✓ Learning by doing
- ✓ Inculcating cognitive & computational thinking and programming capabilities
- ✓ Design and development of efficient and economical ways of solving real life problems

Context:

The current practice of paper based evaluation system in the middle and end of the semesters is not giving much scope to students to apply their concepts to develop a product or a service that solve a real life problem. There is a growing need for tools both hardware & software which will prompt the students to think innovatively and come up with the solutions that are time & cost effective

Practice

Students who build circuits in their very first year of engineering using electronics workbenches can design circuits to address practical problems by the time they reach final year.

Programming has become an enigma for many engineering students. Using innovative software tools like programming workbench will motivate them to learn and apply code to solve practical problems

Also, e-Learning through Virtual labs, Youtube videos, MOOCS, TED lectures and other related sources make learning easy and pleasurable

Evidence of success:

More and more students participating in Coding and IoT design competitions.

Students developing IT & Engineering products for solving existing problems or for new applications

Problems encountered and Resources required.

It takes a lot of time and effort to get acceptance of teachers & students to embrace new technologies.

BEST PRACTICE -2

Title of the Practice: e- Governance

Goal of the Practice:

The goal of the practice is to provide effective and easy way to automate the functionalities of the Institute and to provide information about the students and staff to the stake holders by way of ECAP software and college website. ECAP software which is being used by our Institute provides various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc, thereby reducing human error and paper work. The college website www.gpcet.ac.in provides information about the various departments of the institution, vision, mission, placement details, facilities provided etc.

Context:

Our institute has an intake of 540 UG students and 210 PG students every year and has a total strength of around 2500 students in the campus. To maintain the records of all these students manually is a huge task and there are chances of committing errors. Hence ECAP software is being used by our Institute to store

information about various types of educational related services like maintaining attendance, internal marks, work load of staff members, leave history, mentoring data etc, thereby reducing human error and paper work.

Practice:

ECAP software is loaded with main features like Admissions, Academics, Correspondence, Library, Administration etc by which the details of attendance, internal marks, work load of staff members, leave history, back logs of students, mentoring data etc which can be accessed when necessary by both the staff as well as the student using their Login Id and Passwords.

The access to the software can also be done through the institute website www.gpcet.ac.in.

Evidence of Success

- ✓ The information regarding any student or staff can be accessed in minimum amount of time.
- ✓ The analysis of marks and attendance can also done easily.
- ✓ As the log-in access is also given to the parents, the parents are being able to access the information about attendance, marks etc of their wards in minimum amount of time.
- ✓ Effective management of resources.
- ✓ Interaction between the faculty and students has also increased.
- ✓ The information is stored centrally and no redundant data is stored.

Problems encountered and Resources required

- ✓ There will be problem in accessing the data when the network is down.
- ✓ There is a chance of files getting corrupted.
- ✓ A separate high configuration server is to be allotted for this software .

7.4 Contribution to environmental awareness / protection

Energy Conservation:

Energy Audit and analysis was conducted by the Electricity department and a report was indeed submitted. Accordingly, the following works have been implemented for the conservation of energy.

- ✓ Effort is being made to replace majority of Copper chokes in tube lights to electronic chokes which consumes less energy.
- ✓ Capacitor banks are also being used to improve the power factor.
- ✓ Auto cut off timers are being used in Air conditioners in Computer labs.
- ✓ Continuous monitoring mechanism is available in the institution to avoid unnecessary usage of fans, lights, systems, Air conditioners etc, thereby reducing the power consumption.

Usage of Renewable energy:

Efforts are being made to install solar plants in the college campus in order to make use of solar energy instead of Electric energy. The quotations have also been procured and the work regarding the installation has been started

Water Harvesting:

- ✓ Effort is also being made to install rain water harvesting system in the college campus.
- ✓ Soak pits are also provided at the appropriate points in college campus.
- ✓ The collected water from various buildings is pumped to tank and the same is being used in watering the trees and lawns.
- ✓ Water conservation methods are also adopted by the college by using spring loaded stopper taps to minimize water losses.

Efforts for carbon neutrality:

- ✓ The campus has been filled with trees and lawns.
- ✓ Buildings are also surrounded by open space and wet agricultural land, which provides fresh air in the campus.

- \checkmark Automobiles are not permitted inside the campus except a few, to keep the campus pollution free. Thus the carbon neutrality is also being maintained by making campus pollution free and the reduction of CO_2 release is also being reduced.
- ✓ Students are encouraged to use college bus, thereby reducing the usage of personal vehicles by students in order to reduce the carbon emission.

Plantation:

- ✓ Plantation drive under NSS and other similar initiatives are regularly being conducted in the campus.
- ✓ New plantation and upkeep of existing plants is being carried out on regular basis.

Hazardous waste management:

✓ The chemicals employed in various labs are also disposed off at a place far away from human locality.

E-Waste Management:

✓ Computers, Printers and other ICT equipment which cannot be used are sold to vendors who do the recycling.

7.5 Whether environmental audit was conducted?	Yes	٧	No	
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7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

- ❖ Efforts would be made to ensure that Consultancy gets improved on the campus
- Good Research publications also need to be carried out along with obtaining projects from funding agencies
- ❖ Efforts would also be made to see that core companies visit the campus for recruitment of students. The number of internships taken up by the students also need to be increased

8. Plans of institution for next year

The following are the plans of the Institute for the next academic year

- 1. To obtain the Autonomous Status from UGC, New Delhi
- 2. To attract more number of core companies to the campus in order to recruit the students
- 3. To apply for more number of funded projects and ensure that good number of those projects get sanctioned from the funding agencies
- 4. To increase the number of quality publications by the faculty in reputed Journals and Conferences
- 5. To improve the amount of consultancy taken up by the departments in the college
- 6. To ensure that proper attainment of Course Outcomes, program Outcomes and Program specific outcomes is being achieved

Name: Dr N.Ramamurthy Name: Dr.C.Srinivasa Rao Signature of the Chairperson, IQAC Signature of the Coordinator, IQAC G. Pullalah College of Engg. & Tech. Nendikotkur Road - Vankayapaili(V), KURNOOL-518452.

ANNEXURE-1: ACADEMIC CALENDARS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTHAPURAMU ACADEMIC CALENDAR

B. Tech/B. Pharm II, III & IV Years - I Semester (2017-2018)

Commencement of Class Work for II & III Years B. Tech - II semesters	14,12,2017 (Thursday) 27,12,2017 (Wednesday)	
Commencement of Class Work for IV Year B. Tech II semesters		
End Examinations:	20.11,2017 to 02.12,2017	(02 weeks)
Preparation and Practicals:	13.11,2017 to 18,11,2017	(06 days)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	04.11.2017 to 10.11.2017	(06 days)
II Spell of Instructions:	12.09.2017 to 03.11.2017	(08 weeks)
I Mid-term Examinations: (1 ^{s1} Objective + 1 st descriptive)	04.09,2017 to 11.09,2017	(06 days)
I Spell of Instructions:	03.07,2017 to 01.09,2017	(09 weeks)

Note:

- The Mid-term Examinations should be conducted and completed as per the schedule given.
- (ii) All the midterm examinations shall be of both objective and descriptive type as per the academic regulations.
- (iii) II semester supplementary examinations will be conducted immediately after I semester regular and supplementary examinations

Date: 24.06.2017

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTHAPURAMU ACADEMIC CALENDAR

B. Tech I Year - I Semester (2017-2018)

Commencement of Class Work for B. Tech I Year II semester	08.01.2018 (Monday)	
End Examinations:	11.12.2017 to 23.12.2017	(02 weeks)
Preparation and Practicals:	02.12.2017 to 08.12.2017	(06 days)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	24.11.2017 to 30.11,2017	(06 days)
II Spell of Instructions:	25.09.2017 to 23.11.2017	(08 ½ weeks
I Mid-term Examinations: (1 st Objective + 1 st descriptive)	18.09.2017 to 23.09.2017	(06 days)
I Spell of Instructions:	30.06.2017 to 16.09.2017	(11 weeks)

Note:

- The Mid-term Examinations should be conducted and completed as per the schedule given.
- (ii) All the midterm examinations shall be of both objective and descriptive type as per the academic regulations.

First Notified on 29,06,2017 Rectified on 28.08.2017



Academic Calendar

B. Tech I Year - II Semester (2017-2018)

I Spell of Instructions:	08.01.2018 to 09.03.2018	(09 weeks)
I Mid-term Examinations: (1° Objective + 1° descriptive)	12.03.2018 to 14.03.2018	(03 days)
II Spell of Instructions:	15.03.2018 to 08.05.2018	(08 weeks)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	09.05.2018 to 11.05.2018	(03 days)
Preparation and Practicals:	14,05,2018 to 19,05,2018	(06 days)
End Examinations:	21.05.2018 to 02.06.2018	(02 weeks)
Commencement of Class Work for II year B.Tech I semester for AY 2018-19	28.06.2018 (Thursday)	

Note:

- (i) The Mid-term Examinations should be conducted both in the morning (9:00AM to 11:00AM) and afternoon (3:00PM to 05:00PM) sessions and they should be completed as per the schedule given.
- (ii) All the midterm examinations shall be of both objective and descriptive type as per the academic regulations.
- I semester supplementary examinations will be conducted immediately after II semester and examinations

Date: 28.12.2017

Director of Evaluation



Academic Calendar

B. Tech/B. Pharm II & III Year - II Semester (2017-2018)

Commencement of Class Work for III & IV years B.Tech/B.Pharm I semester for AY 2018-19	28.06.2018 (Thursday)	
End Examinations:	21,05,2018 to 02,06,2018	(02 weeks)
Preparation and Practicals:	10.05.2018 to 19.05.2018	(09 days)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	03.05.2018 to 09.05.2018	(06 days)
II Spell of Instructions:	08.03.2018 to 02.05.2018	(08 weeks)
I Mid-term Examinations: (1 st Objective + 1 st descriptive)	28.02.2018 to 07.03.2018	(06 days)
I Spell of Instructions:	27.12.2017 to 27.02.2018	(09 weeks)

Note:

- (i) The Mid-term Examinations should be conducted and completed as per the schedule given.
- (ii) All the midterm examinations shall be of both objective and descriptive type as per the academic regulations.
- (iii) I semester supplementary examinations will be conducted immediately after II semester end examinations

Date: 28.12,2017

Director of Evaluation



Academic Calendar

B. Tech IV Year II Semester (2017-2018)

First Unit of Instructions:	14.12.2017 to 03.02,2018	(07 weeks)
I Mid-term Examinations: (1st Objective + 1st descriptive)	05.02.2018 to 06.02.2018	(02 days)
Project work	07.02.2018 to 13.03.2018	(05 weeks)
II Unit of Instructions:	14.03.2018 to 11.04.2018	(04 weeks)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	12.04,2018 to 13.04,2018	(02 days)
End Examinations:	16.04.2018 to 23.04.2018	(07 days)
Project Viva Voce Examinations:	25.04.2018 to 04.05.2018	(09 days)

Note:

- (i) The Mid-term Examinations should be conducted both in the morning (9:00AM to 11:00AM) and afternoon (3:00PM to 05:00PM) sessions and they should be completed as per the schedule given.
- (ii) All the midterm examinations shall be of both subjective and objective type as per the academic regulations.

Date: 14.12.2017

Director of Evaluation

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515002, A.P (INDIA)

ACADEMIC CALENDAR

for

M. Tech & M. Pharm (AY 2017-18)

First Semester

(For 2017 admitted batch)

First Semester		
First Unit of Instructions	21.09.2017 to 15.11.2017	(08 Weeks)
First Mid Examinations	16.11.2017 to 22.11.2017	(06 Days)
Second Unit of Instructions	23.11.2017 to 24.01,2018	(09 Weeks)
Second Mid Examinations	25,01,2018 to 01,02,2018	(O6 Days)
Preparation and Practicals	02.02.2018 to 09.02.2018	(07 Days)
End Examinations	12.02.2018 to 24.02,2018	(02 Weeks)
Commencement of class work for II Semester:	12.03.2018 (Monday)	

Date: 21-09-2017



Academic Calendar

M. Tech/M. Pharm III & IV semesters (2017-2018)

(for 2016 - 2017 admitted batches)

Project work Schedule for 2016 admitted students		
Commencement of Project Work	14.08.2017	
Submission of abstract to Internal Departmental Committee (IDC) for approval	03.10.2017 to 07.10.2017	
Submission of status report at the end of first phase to IDC for approval	20.11.2017 to 25.11.2017	
Submission of status report at the end of second phase to IDC for approval	08.01.2018 to 12.01.2018	
Submission of status report at the end of third phase to	05.03.2018 to 09.03.2018	
re - submission seminar	30.04.2018 to 05.05.2018	
final thesis/dissertation submission	After successful completion of presubmission seminar	

Date: 12.09.2017



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515002, A.P. (INDIA)

ACADEMIC CALENDAR For the Year 2017-18

FOR

M.B.A Second Year

(For 2016-17 admitted batches)

Fourth Semester		
First Unit of Instructions	21.12.2017 to 14.02.2018	(08 Weeks)
First Mid Examinations	15.02,2018 to 19.02.2018	(04 Days)
Second Unit of Instructions	20,02,2018 to 16,04,2018	(08 Weeks)
Second Mid Examinations	17.04.2018 to 20.04.2018	(04 Days)
Preparation and Project Work Viva Voce Examinations	21.04.2018 to 05.05.2018	(13 Days)
End Examinations	07.05.2018 to 14.05.2018	(07 Days)

The midterm examinations should be conducted and completed as per the schedule given above.

Date: 28-12-2017

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515002, A.P. (INDIA)

ACADEMIC CALENDAR for Academic Year 2017-18

M.B.A

Second Year (For 2016 admitted batch)

Third Semester		
First Unit of Instructions	17.07.2017 to 08.09.2017	(08 Weeks)
First Mid Examinations	11,09.2017 to 18,09.2017	(07 Days)
Second Unit of Instructions	19.09.2017 to 10.11.2017	(08 Weeks)
Second Mid Examinations	13.11.2017 to 20.11.2017	(07 Days)
Preparation and Practicals	21.11.2017 to 25.11.2017	(05 Days)
End Examinations	27.11.2017 to 13.12.2017	(13 Days)
Commencement of IV Semester	21.12.2017 (Thursday)	

> The midterm examinations should be conducted and completed as per the schedule given above.

Date: 14-07-2017

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515002, A P (INDIA)

for Academic Year 2017-18

MBA / MCA

First Year (For 2017-18 admitted batch)

First Seme	ester	
First Unit of Instructions	21,08,2017 to 13,10,2017	(08 Weeks)
First Mid Examinations	16.10.2017 to 20.10.2017	(O4 Days)
Second Unit of Instructions	21 10 2017 to 13.12.2017	(08 Weeks)
Second Mid Examinations	14.12.2017 to 18.12.2017	(04 Days)
Preparation and Practicals	19.12.2017 to 27.12.2017	(07 Days)
End Examinations	28.12.2017 to 11.01.2018	(13 Days)
nmencement of class work for II Semester	22.01.2018 (Md	enday)

The midterm examinations are to be conducted during both forenoon and afternoon sessions and are to be completed as per the schedule given above.

Date: 16-08-2017



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515002, A.P. (INDIA)

ACADEMIC CALENDAR

for

Academic Year 2017-18

M.B.A

First Year
(For 2017-18 admitted batches)

Second Semester			
First Unit of Instructions	22.01.2018 to 17.03.2018	(08 Weeks)	
First Mid Examinations	19.03.2018 to 22.03.2018	(04 Days)	
Second Unit of Instructions	23,03,2018 to 03,05,2018	(06 Weeks)	
Summer Vacation	04.05,2018 to 26.05,2018	(03½ Weeks	
Second Unit of Instructions (Continued)	28,05,2018 to 08,06,2018	(02 Weeks)	
Second Mid Examinations	11,06.2018 to 14,06.2018	(04 Days)	
Preparation and Practicals	15.06.2018 to 23.06.2018	(07 Days)	
End Examinations	25.06.2018 to 09.07.2018	(13 Days)	
Commencement of class work for III Semester:	16.07.2018 (Monday)		

The midterm examinations are to be conducted during both forenoon and afternoon sessions and are to be completed as per the schedule given above.

Date: 29-01-2018