

**PRIYADARSHINI COLLEGE OF ENGINEERING AND TECHNOLOGY**

*(Affiliated to JNT University Ananthapur, Ananthapuramu)*

**KANUPARTHIPADU, SPSR NELLORE DISTRICT**

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**SELF STUDY REPORT**

**Submitted to**



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**P. O. Box. No: 1075, Nagarbhavi,**

**Bangalore – 560072, Karnataka.**

**2017**

**PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY**

(Approved by A.I.C.T.E., New Delhi &amp; Affiliated to J.N.T.U., Anantapur)

**NELLORE - 524 004 (A.P.)**Office & Fax : 2393884  
Principal : 2393883Dr.K.Vijayabhaskara Reddy  
Principal

Date : 10-05-2017

To  
The Director  
National Assessment and Accreditation Council  
Jnana Bharathi Road  
P.O Box No. 1075, Opp: NLSIU  
Nagarbhavi,  
BANGALORE-560072,  
INDIA

Sir,

Sub: - NAAC Reaccreditation-Submission of Self Study  
Report (SSR)-Reg,

Ref: - 1. LOI acceptance received from NAAC, dated 29-04-  
2017.

2. SSR Uploaded in the Institute website and letter  
send to NAAC dated 30-03-2017.

\*\*\*

Anent to the subject cited this is to inform that we have submitted the LOI on  
30-03-2017 for accreditation and the same was accepted by NAAC vide reference  
(1). The Self Study Report for NAAC assessment and Accreditation (cycle II) was  
uploaded on 30-03-2017 vide reference (2).

We are submitting herewith the hard and soft copies of the SSR of our  
Institute along with Demand Draft for Rs. 3,45,000/- ( Three Lakh Forty  
Thousands rupees only) for your kind perusal and favorable action please.

Thanking you,

Yours faithfully

  
(Dr. K. Vijayabhaskar Reddy)  
PRINCIPAL  
PRIYADARSHINI COLLEGE OF  
ENGINEERING & TECHNOLOGY  
NELLORE - 524 004.

**PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY**

(Approved by A.I.C.T.E., New Delhi &amp; Affiliated to J.N.T.U., Anantapur)

**NELLORE - 524 004 (A.P.)**Office & Fax : 2393884  
Principal : 2393883Dr.K.Vijayabhaskara Reddy  
Principal

Date : 10-05-2017

**CERTIFICATE OF COMPLIANCE**

(Recognized by AICTE and Affiliated to JNTUA, Anantapuramu.)

\*\*\*\*

This is to certify that Priyadarshini College of engineering and technology, Nellore fulfills all norms:

1. Stipulated by the affiliating university and/or
2. Regulatory council / Body (such as UGC, NCTE, AICTE, MCI, DCI, BCI etc., and
3. The affiliation and recognition [if applicable] is valid as on day,

In case the affiliation / recognition are conditional, then detailed enclosures with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its university affiliation or recognition by the regulatory council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by the NAAC is liable to be withdrawn. It is also agreed that the undertaking given to NAAC will be displayed on the college website.

  
(Dr. K. Vijayabhaskar Reddy)**PRINCIPAL**  
**PRINCIPAL**  
**PRIYADARSHINI COLLEGE OF**  
**ENGINEERING & TECHNOLOGY**  
**NELLORE - 524 004**Date: 10-05-2017  
Place: Nellore

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**PART I**  
**EXECUTIVE SUMMARY**  
**The SWOC Analysis of the Institution**

**EXECUTIVE SUMMARY**

Priyadarshini College of Engineering and Technology PCET was established in the year 2005 by Priyadarshini Educational society. This society was founded by Sri P. Subbarami Reddy. The Institution established with four AICTE approved undergraduate programs. These four programs are related to Departments of Electrical and Electronics Engineering (EEE), Electronics and Communications Engineering (ECE), Computer Science and Engineering (CSE) and Information Technology (IT) with an overall intake of 210 students. Later programs master of computer applications (MCA), master of business administration (MBA), Civil Engineering and Mechanical Engineering were introduced. Since the academic year 2014-15, the college is continuing with a total student intake of 1014, from the courses in five undergraduate and five postgraduate programs.

The dream of the Institute is to teach quality education through exploration and experimentation and generate socially-conscious engineers, embedding ethics and values, for the advancement in science and technology. Though the affiliating University introduces curriculum, based on the feedback of industry, students and faculty members, the Institute assesses the curriculum and adds extra topics beyond the syllabus. Electives are offered by the affiliating University at both post graduate and under graduate levels in terms of specializations. All programs offered by the Institute are semester based. The college is approved by AICTE and affiliated to JNTUA, Anantapuramu. Program wise intake of the college as follows.

S.No	Programme	Branch	Intake
<b>UG</b>			
1	B. Tech	Civil Engineering	120
2	B. Tech	Electrical and Electronics Engineering	120
3	B. Tech	Mechanical Engineering	120
4	B. Tech	Electronics and Communications Engineering	180
5	B. Tech	Computer Science and Engineering	180
<b>PG</b>			
1	MCA	Master of Computer Applications	120
2	MBA	Master of Business Administration	120
2	M. Tech	Computer Science and Engineering	18
4	M. Tech	Power Systems	18
5	M. Tech	Digital Electronics and Communication Systems	18

**Teaching – Learning and Evaluation**

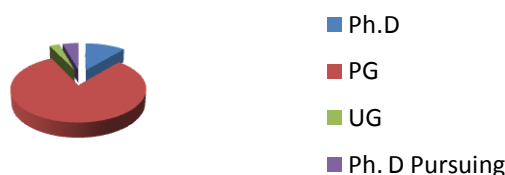
The Institute strives to achieve excellence in teaching and learning by recruiting well qualified and dedicated teaching faculty and also maintains an unmatched retention ratio. 70% of admission is carried out through APSCHE quota. 30% of



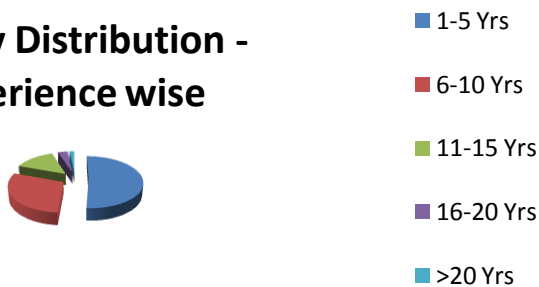
admission is carried out through management quota which is purely based on merit. Meticulous planning for teaching in the beginning of every semester paves the way for efficient teaching environment.

**Faculty:** The academic programs and all academic activities of the institute are supported by a strong contingent of about 237 well qualified and experienced faculty members. Out of the 237 faculty members, 28 Ph.D degrees, pursuing Ph.D 11, 202 Masters degree, 07 B.Tech degree. The college maintains a faculty student ratio of 1:15 in Under graduate program and 1:12 in masters programs.

**Faculty Distribution -  
Qualification wise**



**Faculty Distribution -  
Experience wise**



### Preparation of Time-tables and Lesson Plans

Subjects prescribed in the R15 regulations of JNTUA, Anantapuramu are allocated to the faculty based on their competencies, areas of expertise and specialization. For newly introduced subjects, head of the department forwards a request through proper channel to conduct a Faculty Development Program, FDP. These FDPs are conducted for newly recruited faculty also. Subjects are allocated well in advance and lesson plan and tutorial questions are prepared well ahead and distributed to the students. The syllabus coverage is monitored centrally and department-wise before the commencement of mid examinations. Discrepancies in syllabus coverage, if any, are brought to the notice of Head of the Department by the monitoring committee.

### **1. Method of Teaching**

The Institute continuously uses innovative methods of teaching, learning and evaluation process. In teaching it adopts a student centric approach to achieve the desired learning outcomes. Interactive learning techniques like seminars, tutorials, video lectures, programming contests, major and mini projects enrich the teaching learning experience. Apart from the JNTUA prescribed syllabus, special coaching is given on communication skills and aptitude to prepare the students for competitive and placement examinations. Teachers prepare Course Files that include lesson plans, lecture notes, teaching methodology, objectives and outcomes, a record of classroom interaction and comprehensive performance of the students.

### **2. Tests, Performance, Monitoring and Evaluation**

The Institute has a continuous evaluation system. Internal assessments are conducted as per the guidelines of affiliating University. In addition to the university prescribed examinations, continuous assessment of the students is done by administering weekly slip tests in all the subjects. The internal marks and attendance will be communicated to their parents during the weekly counseling and special counseling sessions by the staff counselors. The Examination Cell also communicates the internal marks and attendance report through SMS every month. The same marks are uploaded to the JNTUA, Anantapuramu. Students with poor performance are identified and a special focus in the form of remedial teaching is given to strengthen them both by the faculty counselor and subject teachers.

### **Research, Consultancy and Extension**

The institute encourages students and faculty to involve in research activities through its Research and Development (R&D) Cell. If any project is sanctioned, full support to the Principle Investigator/Project Head is provided to implement the research scheme within the time frame. To create the zeal among students and teachers, college has procured sophisticated equipment, updated library facilities and latest valued research journals. Every month a review meeting is held to note the status of research and funded projects.

The Institute has 28 Doctorates and some of them are guiding Ph. D and M. Phil research students at various Universities. 11 members of the staff are pursuing their doctoral research at various universities. The Institute encourages research among its faculty and students in various ways like sponsoring them to present and publish papers in national and international journals, conferences, by providing them academic leave for research, conducting student technical symposiums, faculty development programs, workshops to name a few.

### **Infrastructure and Learning Resources**

The institution very firmly believes that good teaching learning process requires ideal conditions. So, has made it a policy that no compromise should be made in establishing infrastructural facilities and accordingly developed the infrastructure and facilities as per AICTE norms. Good infrastructure like air-conditioned multimodal classrooms, well equipped laboratories, hygienic canteen, excellent transport facility, LAN campus, library with internet facility and reading rooms, play grounds, power backup-both conventional and solar, Boys & Girls hostels etc. are provided by the college. There are 5 academic blocks that house seven disciplines of study namely, Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics and Communications Engineering, Computer Science and Engineering, Master of Computer Applications and Master of Business Administration surrounding a main block that is the administrative hub housing the digital and the common libraries, examinations cell, drawing hall, laboratories, chambers of the chairman, the director and the principal and the office. Second block named as South block which contains a seminar hall, class rooms, maintenance room and workshop. Third block named as North Block which contains seminar hall, laboratories, training and placement cell and class rooms. Fourth block named as Mechanical Block which contains the Mechanical engineering laboratories. Fifth Block named as EEE block which contains laboratories, class rooms, drawing hall and faculty cabins. There is a state of the art laboratory annex for Civil and Mechanical engineering departments.

The Institute has an excellent state of the art library with reprographic facilities and also includes a digital library making it, in fact, one of the best libraries. The campus is eco friendly and optimally utilizes solar power to generate solar energy and also has a mineral water plant and rain water harvesting mechanism to optimize water resources. This Institute uses Perfect Attendance school software to maintain student profile and attendance. The student performance data is shared with the parents on a periodic basis. There is an online evaluation system, useful for Training & Placements, based on LAN that can be accessed online through student logins within the campus.

### **Student Support and Progression**

Various programs are synchronized to take care of the curricular, co- curricular and extra-curricular aspects of education. Formative tests are conducted and the academically weak students are given extra support. Remedial classes and study classes are held for academically poor students. Customization and counseling the students are the healthy practices that help faculty to build a rapport with the students and reach out to them accordingly. Student Grievance Redress Cell effectively functions on the campus. The institution provides necessary coaching to enable the students to take up various competitive exams. These include GRE, TOEFL, IELTS, GATE, in-house campus recruitment training, etc. The College has well equipped language laboratories which are of help to the students in improving their communication skills. The institute also focuses on improving computer literacy among its students by arranging special lecture sessions to those students who are less exposed to computer usage and programming. Economically backward students are provided financial assistance, if necessary. Students are highly encouraged to participate in competitions conducted within the campus and

elsewhere. They are provided financial assistance to meet the travel, food and accommodation expenses when they go for paper presentations and other academic related activities. There is a resident doctor on the campus to look after the health related issues of the students. There is a first aid clinic on the campus and the students can consult the doctor for small ailments.

### **Governance Leadership and Management**

Priyadarshini College of Engineering and Technology is governed by the priyadarshini educational society (Indian . PCET Active Management – Mr P. Subbarami Reddy as its Chairman and Mr P.V Srinatha Reddy as its Secretary, hereafter referred to as ‘Management’ works hard to keep the momentum in all the activities of learning and implementation of result oriented programmes that bring excellence and quality in teaching-learning processes in professional colleges.

The Governing Body comprising members from the Trust Board, AICTE, Industry, JNTUA and AP State Technical Education conducts at least two meetings in an academic year and discusses problems faced in the past and how to rectify them in the future. It advises the Governing Body to direct the Principal to act accordingly and the Principal takes the message to the faculty. The development, supervised by the management, comprises extension of building, providing additional facilities, introduction of new courses, inclusion of new faculty, employing staff, student admissions, etc. The management conducts periodical staff meetings to review the quality policy and development of the institution. It also arranges for the confidential evaluation of the teachers and the overall institutional performance by the students, which is perused by the Principal to take necessary steps toward institutional development. Income/expenditure are closely monitored by a Chartered Accountant and over seen by the Management. VI Pay scales as per AICTE norms are paid to all staff on the 1st of every month. All permanent staff benefit from EPF, Health Insurance and Group Insurance schemes. Retirement benefits will be given subject to fulfillment of the service conditions at the institution.

### **Departments**

The democratic set-up is extensive with eight departments – Department of Sciences and Humanities (S&H), Department of Civil Engineering (CE), Department of Electrical and Electronics Engineering (EEE), Department of Mechanical Engineering (ME), Department of Electronics and Communications Engineering (ECE), Department of Computer Science and Engineering (CSE), and Department of Master of Computer Applications (MCA). Each department is headed by a senior professor and is given fullest freedom to innovate and plan its perspectives of development. Organizational hierarchy is maintained to ensure administrative harmony. Empowerment through total decentralization of the departmental administrative system into several committees and units headed by senior faculty, promotes co-operation, sharing of knowledge and innovations. Separate departmental budgets ensure that there is no unprecedented resource crunch. The departmental libraries are stocked with a good number of reference books and journals. The departments also work as nodal centers that facilitate liaison

among various stakeholders. Inter-departmental collaborations for R&D activities are encouraged.

### **Staff**

PCET is a cynosure for many faculty and non-teaching staff who work in this region. The faculty is regarded by the management as the real performers and contributors to the development of the institution. Faculty believes in teamwork that leads to the best practices of the institution. The faculty of the college has published many research papers in international journals of repute.

### **Laboratories**

The college has sophisticated laboratories spread over 60 rooms in an area of 3474.63 sq m as per the norms laid down by AICTE. The college has an exclusive English Communication Skills Laboratory equipped with multimedia systems.

### **Achievements**

<b>Year</b>	<b>Milestone</b>
2005	Establishment of PCET with four UG programmes (EEE, ECE, CSE & IT) in Engineering with an intake of 210 students and affiliation from JNTU Hyderabad, and Approval from AICTE.
2006	Increase of intake from 60 to 120 in B. Tech CSE and ECE programmes respectively. Introducing MCA and MBA programmes with an intake of 60 students
2008	Transfer of Affiliation from JNTU Hyderabad to JNTUA, Anantapuramu MoU with Aptech
2009	Quality policy implementation and ISO 9001: 2009 certification.
2010	40 Mbps leased line with fiber optic back bone network facility provided to all Departments and Laboratories MoU with Infosys – Campus Connect
2011	Increase of intake from 60 to 120 in B.Tech EEE programm.
2012	ME and CE B. Tech branches introduced with 60 intake. Starting of P.G courses in M. Tech ECE (DECS) and M. Tech (CSE) with intake of 18 students each.
2013	Increase of intake from 60 to 120 in MBA and MCA programmes. Increase of intake from 120 to 180 in B. Tech ECE and CSE programmes.
2014	Starting of P.G course in M. Tech EEE (PSED) with intake of 18 students each. Increase of intake from 60 to 120 B.Tech CE and ME programmes.
2015	Entrepreneurship Development Cell (EDC) Boot camp.

**Training and Placement Cell**

The College has a system to provide career guidance and placements to the students. Training and Placement Officer leads the Training and Placement Cell, who is assisted by a Training Coordinator and Department Placement Coordinators. Add on courses, are conducted for the students throughout their four years of study to improve their soft skills and technical skills. The cell offers both in-house training and Mock recruitment process. The college has partnered with Co- Cubes, Monster, IEG-JKC for Training and Placement activities. The placement cell keeps track of the interviews held. As and when the results are declared, the cell informs the students regarding the selection. Industry oriented thinking is inculcated right from the first year of B. Tech program. Focus on Soft skill training is given in the second year. Regular guest lectures are organized with people from the industry. Industry oriented project work and internship is encouraged. Training is also given for certification program like OCA, OCP, DB2, MCSE, CCNA, etc.

**Campus Placements**

For a young college which is celebrating its 12<sup>th</sup> anniversary and has sent out only 8 batches of students, this year (2016-17) alone marks a record placement of over 76 students in 15 companies. In the last eight years, 456 students have been placed by the Training and Placement cell of the college in almost 20 companies. PCET is considered as a suitable place for conducting prestigious examination that open up employment and career opportunities to deserving candidates. PCET has examination Tie-ups with various state government public service commission examinations like APPSC Group-I, II, III, IV, VRO, VO, etc; state government higher education commission examinations like EAMCET, etc;

**Entrepreneurship Development Cell**

The college has established Entrepreneurship Development Cell (EDC). The objectives of the cell are

- Developing entrepreneurial spirit, characteristics and personality among students.
- Developing technical, technological and professional competency needed for employment and productive work.
- Managerial capabilities to run business or self-employment activity successfully.
- Creation and dissemination of new knowledge and insight in entrepreneurial theory and practice.

**Alumni Association**

Each department seeks the opinion / suggestions of alumni on various developmental activities by sending mails to them and requesting them to fill the proforma supplied in this regard. An alumni portal is designed in the college website for better interaction between the college and alumni. Alumni meetings are held every year on the college campus.

**Library**

The college has a computerized library well equipped with a large collection of books under the categories of academics, reference and general. All the books are bar-coded and indexed using the latest library management software. The library also subscribes to both national and international magazines, journals and periodicals in addition to leading national dailies. It is a book house of knowledge, where its prime motto is to guide every student in an appropriate way and pave the road to success. A student book bank is operated in the library. It meets the innumerable needs of the students in the academic curriculum. It satiates the intellectual hunger and quenches the thirst for knowledge of the scholarly students. The book collection ranges from literary classics to management guide and from career counselors to technical reviews.

**Internet**

Seamless Internet facilities are provided using optical fiber backbone covering Departments, Labs, and Library and Class rooms throughout the campus through 40 Mbps leased lines from a highly competent Service Provider. One lab is dedicated for internet services during the evenings.

**LAN facility:** All computing labs are provided with LAN facility.

**Wi-Fi facility:** Wi – Fi facility is available in the institute.

**Co-curricular, extracurricular & cultural activities**

College encourages its students to take part in various co-curricular, extracurricular & cultural activities. They are promoted through various students clubs. Our college students have excelled in various competitions at university, state, zonal, national, international levels.

**NSS Activities**

To encourage students in serving the nation and society, the nearby villages are adopted and seven day special camps are conducted. Students in large number actively participate under the guidance of program officer. Awareness regarding cleanliness, importance of education, health care and self help is given.

**NCC**

National Cadet Corps is a Tri-Services organization comprising the Army, Navy and Air Force, engaged in grooming the youth – **The Leaders of Tomorrow**– into disciplined and patriotic citizens.

**Sports and Games**

The college is regularly represented at various inter-institution, state and national



tournaments. Coached by two physical education trainers, select students with good performances have made it to the JNTUA university teams. In sports, our college provides facilities for both indoor and outdoor games to the students. A sports day is conducted every year where the students get opportunity to meet a celebrated Sports Star and receive certificates and medals for their sports talent in the intramural competitions. A spacious play ground is available for outdoor games like Cricket, Football, Volleyball, Basketball, Badminton etc. Indoor games like Table Tennis, Chess, Caroms etc, are provided to students in the college campus. Besides the full time trainers college uses the services of professional coaches to train students in games like Table Tennis, Volleyball, Cricket, etc.

### **Cultural associations and Student Bodies**

The college has five students associations are conducting technical events and cultural activities. Three hours are earmarked for the activities of the associations every week. Besides the faculty, experts from outside the college act as resource persons for the association.

### **Innovations and Best Practices**

The institution follows best practices like maintaining discipline, professional ethics and excellence in teaching. The campus is a ragging free zone with an anti-ragging committee functioning. Students also involve in community development and social service activities through NSS, NCC by involving in blood donation camps, distribution of food and clothing for the poor, organizing social awareness camps in nearby villages and so on. The institution has ICT class rooms well equipped with LCD projectors, Multimedia PCs, restricted Wi-Fi and complete LAN connectivity and Internet access. Air-conditioned seminar halls are provided with PCs and projection systems support mass presentation.

JNTUA's portal is available for students and staff to browse/download subject wise e-content.

NPTEL and online courses of various IITs are made available to the students and staff.

### **Points of Pride**

The college has recognized with UGC 2(f).

The college affiliated to JNTUA.

The college is situated in urban area of city.

The college providing ragging free education.

### **Institute SWOC Analysis**

#### **Strengths**

1. Institute has well qualified and highly dedicated Teaching and Non-Teaching Staff.
2. Institute has well equipped infrastructure with spacious built-up area.
3. Outcomes based teaching focused on employment and entrepreneurship development.



4. Institute has excellent relationship with outside corporate world for technical and managerial support.
5. Management with a vision for imparting quality education and student welfare.

**Weaknesses**

1. Students, being from rural area, are striving to meet national and global standards in technical Education and facing language barriers.
2. Institute has to upgrade their teaching community for more funded projects; quality research and development; and patents and consultancy.

**Opportunities**

1. Institute is continuously organizing various development programs for the benefit of teachers and students through seminars, workshops, conferences, symposiums and other student meets.
2. Ever increasing demand for technical education at UG & PG level of Engineering & Technology.
3. Many more opportunities for tie-ups with both established and start-up companies in India and abroad for enhancing learning outcomes.

**Challenges**

1. Institute has competition from other technical institutions.
2. To produce more qualified and industry ready technicians.
3. To become a fully residential campus.

## **PROFILE OF THE COLLEGE**

**Part B: Profile of Affiliated College****A) Profile of the College**

## 1. Name and address of the college

Name: <b>Priyadarshini College of Engineering &amp; Technology</b>
Address: <b>Kanuparthipadu (V), Nellore-524004</b>
City: <b>Nellore</b> District: <b>SPSR Nellore</b> State: <b>Andhra Pradesh</b>
Pin code: <b>524004</b>
Website: <b>www.pcenlr.ac.in</b>

## 2. For communication

Designation	Name	STD Code	Tel. No.	Fax	E-mail
Secretary	Sri.P.V.Srinatha Reddy	0861	9440277797		sevenh@rediffmail.com
Principal	Dr. K. Vijayabhaskara Reddy	0861	2393883 9440745889	2393884	price_nlr@yahoo.co.in
Vice Principal and Steering Committee Coordinator	Prof.M.L.N.Charyulu	0861	7981105279		Mlnacharyulu74@gmail.com

## 3. Status of Institution:

- i. Affiliated College ☒
- ii. Constituent College ☐

## 4. Type of Institution

(a) By Gender: **Co-education**(b) By Shift: **Regular**

## 5. Is it a recognized minority institution?

Yes ☐ No ☒

If yes specify the minority status (Religious/linguistic/ any other)

(Provide the necessary supporting documents)

6. Source of funding
- i. Government ☐
  - ii. Grant-in-aid ☐
  - iii. Self-financed ☒
  - iv. Any other ☐

7. a) Date of establishment of the college

Date	Month	Year
30	06	2005

b) University to which the college is affiliated (If it is an affiliated college) or which governs the college (If it is an constituent college): JNTUA, Anantapuramu.

c). Date of UGC recognition

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	11 <sup>th</sup> April 2014	File no. 8-237/2012(CPP-I/C)
ii. 12 (B)	11 <sup>th</sup> April 2014	File no. 8-237/2012(CPP-I/C)

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d) Details of recognition /approval by statutory / regulatory bodies other than UGC

#### **AICTE approval letters**

Under Section	Academic Year	AICTE Approval letter	Date of approval letter
AICTE Act Regulations	2005-06	F.N. 06/05/AP/ENGG/2004/52	30-06-2005
AICTE Act Regulations	2006-07	F.No.730-50-458(E)/ET/2005	07-07-2006
AICTE Act Regulations	2007-08	F.No.730-50-458(E)/ET/2005	14-05-2007
AICTE Act Regulations	2008-09	F.No.730-50-458(E)/ET/2005	02-05-2008
AICTE Act Regulations	2009-10	F.No.AICTE/E&T/ENGG/AP/2009-10/282	18-08-2009
AICTE Act Regulations	2010-11	F.No. South Central Region/1-23962396524/2010/EOA	23-08-2010
AICTE Act Regulations	2011-12	F.No. South Central Region/1-421854663/2011/EOA	01-09-2011

AICTE Act Regulations	2012-13	F.No. South-Central/1-723678532/2012/EOA	10-05-2012
AICTE Act Regulations	2013-14	F.No. South-Central/1-1497119326/2013/EOA	19-03-2013
AICTE Act Regulations	2014-15	F.No. South-Central/1-2013861379/2014/EOA	04-06-2014
AICTE Act Regulations	2015-16	F.No. South-Central/1-2453815706/2015/EOA	07-04-2015
AICTE Act Regulations	2016-17	F.No. South-Central/1-2813373670/2016/EOA	05-04-2016
AICTE Act Regulations	2017-18	F.No. South-Central/1-3325860564/2017/EOA	30-03-2017

8. Does the University Act provide for conferment of autonomy (as recognized by UGC), of its Affiliated Colleges?

Yes ☒ No ☐

If yes, has the college applied for autonomy?

Yes ☐ No ☒

9. Is the college recognized

a) by UGC as College with Potential for Excellence (CPE): **-No-**

b) for its performance by any other governmental agency: **-No-**

10. Location of the Campus and area in acres/sq.mts

Location	Semi-Urban
Campus Area in Sq m	56818 Sq m
Built-up area in Sq m	23292 Sq m

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

Auditorium/seminar complex with infrastructural facilities: Available Sports facilities:

play ground : Available

swimming pool : Not Available

Gymnasium : Not Available

- Hostel
  - \* Boy's hostel: Available
    - i. Number of hostels: One
    - ii. Number of inmates: 100
    - iii. Facilities (mention available facilities): Internet, Filtered drinking water, Hot water, laundry
  - \* Girls' hostel: Available
    - i. Number of hostels: One
    - ii. Number of inmates: 80
    - iii. Facilities (mention available facilities) Internet, Filtered drinking water, Hot water, laundry.
  - \* Working women's hostel: Not Available
    - i. Number of inmates: Not applicable
    - ii. Facilities (mention available facilities): Not applicable.
    - iii. Residential facilities for teaching and non-teaching staff : Not Available
- Cafeteria -- Available
- Health centre –Available
- First aid, Inpatient, Outpatient, Emergency care facility, Ambulance
- Health centre staff –Available
- Facilities like banking, post office, book shops: Not Available
- Transport facilities to cater to the needs of students and staff: Available
- Animal house: Available
- Biological waste disposal: Not Applicable
- Generator or other facility for management/regulation of electricity and voltage: Available
- Solid waste management facility: Not Applicable
- Waste water management: Not Applicable

12. Details of programmes offered by the institution: (Give last year's data) 2015-16

Sl. No.	Program me Level	Name of the Programme/ Course	Du ration	Ent ry Qualificati on	Medium of instructio n	Sanctione d Student Strength	Numb er of student s
1	i) UG	B. Tech (Civil)	4	10+2	English	120	54
2		B. Tech (ME)	4	10+2	English	120	48
4		B. Tech (EEE)	4	10+2	English	120	40
5		B. Tech (ECE)	4	10+2	English	180	13
6		B. Tech (CSE)	4	10+2	English	180	11
1		MCA	3	P	English	1200	6
2		MBA	2	P	English	120	4

3	ii) Post-Graduate	M. Tech (Power Systems)	2	P G	English	18	6
4		M. Tech (DECS)	2	P G	English	18	0
5		M. Tech (CSE) I Shift	2	P G	English	18	3
iii)	M.Phil	Nil					
iv)	Ph. D.	Nil					
v)	Certificate	Nil					
vi)	UG Diploma	Nil					
vii)	PG Diploma	Nil					
viii)	Any other (specify)	Nil					

*(Additional rows may be inserted as per requirement)*

13.Does the college offer self –financed programmes ? No

14.New programs introduced in the college during the last five years if any?

Yes

Number :03

15. List the departments:

<b>Science</b>
Departments: (For eg. Chemistry, Botany, Physics ...)
<b>Arts</b> (Language and Social sciences included)
Departments:
<b>Any Other (Engineering Departments):</b> <b>1. Civil Engineering</b> <b>2. Mechanical Engineering</b> <b>3. Electrical &amp; Electronics Engineering</b> <b>4. Electronics &amp; Communication Engineering</b> <b>5. Computer Science &amp; Engineering</b> <b>6. Master of Computer Applications</b> <b>7. Master of Business Administration</b>
<b>Total Departments: 7</b>

16. a) Number of Programmes offered under a Annual Syatem

Nil

b) Semester system B. Tech, M.Tech, MCA, and MBA

10

17.

Number of Programmes with

a. choice based credit system

Yes		No	✓	Number	
-----	--	----	---	--------	--

b. Inter/multidisciplinary approach

Yes		No	✓	Number	
-----	--	----	---	--------	--

c. Any other, specify

Yes		No		Number	
-----	--	----	--	--------	--

18. Does the programme offer UG programmes in Teacher Education?

Yes		No	✓
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19. Does the programme offer PG programmes in Teacher Education?

Yes		No	✓
-----	--	----	---

20. Number of teaching and non- teaching positions in the Institute



Positions	Teaching faculty						Non-Teaching		Technical	
	Professor		Assoc. Prof		Asst. Prof.					
	M	F	M	F	M	F	M	F	M	F
Sanctioned	22	6	43	9	131	26	41	24	11	5
Recruited	22	6	43	9	131	26	33	14	10	2
Yet to be recruited	0	0	0	0	0	0	8	10	1	3

## 21. Qualifications of the Teaching Staff

Positions	Teaching faculty						Non-Teaching		Technical	
	Professor		Assoc. Prof		Asst. Prof.					
	M	F	M	F	M	F	M	F	M	F
Ph D	22	6	0	0	0	0	0	0	0	0
M.Phil	0	0	4	0	0	0	0	0	0	0
PG	0	0	43	9	120	26	0	0	2	1
UG	0	0	0	0	7	0	33	14	8	1

## 22. Number of Visiting Faculty / Guest Faculty engaged with the College: NIL

## 23. Furnish the number of students admitted to the college during the last four academic years.

Categor	2016-		2015-16		2014-15		2013-14		2012-13	
	M	F	M	F	M	F	M	F	M	F
<b>SC</b>	7	17	37	18	15	6	30	14	44	2
<b>ST</b>	2	1	2	2	1	4	3	2	3	3
<b>OBC</b>	50	59	105	101	34	18	91	69	108	93
<b>General</b>	51	53	90	95	42	36	103	105	13	133
<b>Others</b>	0	0	0	0	0	0	0	0	15	17
<b>Total</b>	110	130	234	216	92	64	227	190	262	248

## 24. Details on students enrollment in the college during current academic year: 2016-17

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	213	27	--	--	240
Students from other states of India			--	--	
NRI students	--	--	--	--	
Foreign students	--	--	--	--	
<b>Total</b>	213	27	--	--	240

## 25. Dropout rate in UG and PG (average of the last two batches)

UG  PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component

(b) Excluding the salary component

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes ☐ No ☒

If yes,

a) Is it a registered centre for offering distance education programmes of another University Yes ☐ No ☐

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes ☐ No ☐

28. Provide Teacher-student ratio for each of the programme/course offered

**B.Tech**

(i) Electrical & Electronics Engineering	:	1:15
(ii) Electronics & Communication Engineering	:	1:15
(iii) Computer Science & Engineering	:	1:15
(iv) Mechanical Engineering	:	1:15
(v) Civil Engineering	:	1:15

**M.Tech**

(i) Power Systems (EEE)	:	1:12
(ii) Computer Science & Engineering (CSE)	:	1:12
(iii) Digital Electronics&Communication Systems(ECE)	:	1:12
(iv)MBA	:	1:15
(v)MCA	:	1:15

29. Is the college applying for

Accreditation : Cycle 1 ☒ Cycle 2 ☐ Cycle 3 ☐ Cycle 4 ☐

Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to

*re-accreditation)*

30. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

**Not Applicable**

Cycle 1: ..... (dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle2: ..... (dd/mm/yyyy) Accreditation Outcome/Result.....

Cycle 3: ..... (dd/mm/yyyy) Accreditation Outcome/Result.....

**\* Kindly enclose copy of accreditation certificate(s) and peer team report(s) annexure**

31. Number of working days during the last academic year.

**230 days**

32. Number of teaching days during the last academic year

*(Teaching days means days on which lectures were engaged excluding the examination days)*

**179 days**

3. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC  
..... (dd/mm/yyyy)

Not Applicable

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) ..... (dd/mm/yyyy)

AQAR (ii) ..... (dd/mm/yyyy)

AQAR (iii) ..... (dd/mm/yyyy)

AQAR(iv)..... (dd/mm/yyyy)

Not Applicable

35. Any other relevant data (not covered above) the college would like to include.  
(Do not include explanatory/descriptive information) :

Not Applicable

**C.Criteria –Wise Inputs****CRITERION I: CURRICULAR ASPECTS****1.1 Curriculum Planning and Implementation**

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

**Vision**

To be an academic institution in dynamic equilibrium with its social, ecological and economic environment striving continuously for excellence in technical education, research and technological service to the nation.

**Mission**

Create and sustain a community of learning in which students acquire knowledge and learn to apply it professionally with due consideration for ethical, ecological, and economic issues.

- Pursue research and disseminate research findings.
- Provide knowledge-based technological services to satisfy the needs of society and the industry.
  - Help in building national capabilities in technology, education and research.

**Quality policy**

To be an institute of excellence in Technical Education by imparting quality Technical Education through continual improvement. The institute facilitates faculty and supporting staff to work as a team and update their knowledge and skills, to match the industrial and technological development.

**Long term goals**

- To be a provider of quality education so as to get global recognition.
- To attain the status of deemed to be university.
- Introduce various professional programs in collaboration with global institutions of repute.
- To undertake nationally acknowledged R&D works by forging alliances with Research Organizations and Industries.

**Short term goals:**

- Strive for attracting quality faculty and provide incentives for existing faculty to acquire higher qualifications.
- To adopt innovative teaching methodologies to optimize the teaching learning processes to bridge the gap between theory and practice.
- To improve the quality of student admissions.
- To achieve 90% pass percentage in university examinations from the current 80%.

- To train students in a wide range of technical skills, managerial skills including life skills to make them industry ready.
- To organize life skills programs so that the students can communicate coherently, rationally and convincingly.
- To get institutional accreditation by NAAC.
- To get NBA Accreditation for all eligible programs
- To attain 90% percent placements among the eligible students.
- To become an autonomous institution under JNTUA.
- To become an autonomous institution under UGC.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

The college meticulously develops action plans for effective implementation of the curriculum. At the outset, the advisory committee of the college conducts protracted meetings with the staff members of various department heads to develop strategies for effective implementation of the curriculum. Teachers are encouraged beforehand to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, computer education apart from regular/traditional teaching methods. The detailed process is as given below:

- Curriculum and academic calendar are given by the University and the same is followed with some required changes to cater to the local situations if needed.
- Allocation of the subjects to the faculty is done taking into consideration of the faculty qualifications, subjects' specialization, experience and their willingness.
- Teaching plans are prepared by individual teachers for the subjects they are handling, including the labs within the ambit of the academic schedule. The academic schedule is strictly followed as per the almanac.
- Detailed course files are prepared by the faculty which includes comprehensive class notes, teaching material and OHP transparencies, PPT slides.
- The progress of syllabus coverage is monitored periodically at various levels.
- Class attendance registers which also include the topics covered on day to day basis are scrutinized by the HOD and the Principal.
- Periodical feedback is obtained from the students on aspects of teaching-learning.
- Meetings of Class Representative Committee members is held by the Head of the Department to review the teaching learning process periodically and remedial measures are taken if necessary.
- Standard evaluation methods are followed by all the staff members of all the departments uniformly while allowing individual innovations.
- Evaluation schedules are prepared by the Academic and Examination Cell of the college keeping in view the almanac of the University for Different Courses.

- Academic audit of Attendance Registers, Internal Examination Question papers and answer sheets is carried out at the end of each academic year.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The curriculum prepared by the JNTUA Ananthapuramu, to which the college is affiliated, is well transacted to the students after serious preparation as well as critical thought by the teachers concerned. Being an affiliated institution we are always in tune into the latest trends in education and guidelines. The JNTUA regularly organizes refresher courses, orientation programs and workshops to keep the knowledge and teaching aptitude of the teachers updated. The faculty of the college can discuss their issues or problems, if any, while participating in the meetings of the Board of Studies. The College also encourages the teachers to participate in the Orientation/Refresher Courses/ Workshops/ Seminars organized by the affiliating university to update the knowledge and to improve the teaching practices. The college bears all the expenditures of travelling including registration/ participation fee etc. The college provides ample books and other teaching and reference material like Journals, Magazines, Teaching Models and software to enable its teachers to ensure effective delivery of curriculum. The University and the Institution supports the process of enhancement in the ability of the teachers to effectively translate the curriculum in the following manner.

- The faculty is regularly encouraged to attend National and International symposia and conferences and present their research findings.
- The faculty is regularly encouraged to attend Staff Development Programs arranged by the UGC Academic Staff College.
- Special increments are given to the faculty who excel in teaching and get good results.
- The institute faculty are provided research facilities to apply to various projects and sanctions time to time.
- The faculty is encouraged to apply for projects for research grants to different funding agencies such as AICTE, DST, UGC etc., which help to enhance professional competence and increase promotional avenues to the staff under CAS and other channels.
- The college also considers for financial support case by case.
- In order to cater to the needs of research activities by different departments the management of the college has planned for and central R&D facility with all the infrastructure and instrumentation required by the departments. This in itself is a huge encouragement for the faculty to pursue their research activities with in the institution. These facilities would also help in Institutional- Industry interaction in research and development in engineering and sciences.
- The necessary travel expenses and registration fee are borne by the college.
- The faculty also is encouraged to publish their research findings in National and International journals and a part of the publication cost is reimbursed by the institution.

- Study leave is extended to faculty members who wish to pursue Masters or Ph.D. programs.
- All the faculty members of various departments are encouraged to participate in National/International Conferences, Seminars, Training Programs, and also to organize National/International Conferences.

Note: Research papers and publications are shown in individual departmental profiles.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The institution is making special efforts for the professional development of its faculty to facilitate effective curriculum delivery.

- Detailed course schedules and course material are prepared by the faculty for the subject allotted to them.
- Modern teaching aids are provided to the faculty.
- Lesson plans are prepared by the faculty.
- Appropriate numbers of hours are allocated for tutorial work.
- The attendance registers are scrutinized by the Head of the department and the Principal once in a month to ensure coverage of topics as per syllabus and teaching schedules.
- Regular meetings are conducted by the HOD with the student representatives of the class to take feedback on syllabus coverage.
- Faculty is encouraged to pursue Ph.D. programs and/or encouraged to take up the research work individually or in collaboration for improving their professional skills.
- The faculty is encouraged to apply for projects for research grants to different funding agencies such as AICTE, DST, UGC etc., which help to enhance professional competence and increase promotional avenues to the staff under CAS and other channels.
- The college also considers for financial support case by case.
- In order to cater to needs of the research activates by different departments the management of the college has planned for and central R&D facility with all the infrastructure and instrumentation required by the departments. This in itself is a huge encouragement for the faculty to pursue their research activities with in the institution. These facilities would also help in Institutional- Industry interaction in research and development in engineering and sciences.
- The faculty is regularly encouraged to attend National and International symposia and conferences and present their research findings.
- The necessary travel expenses and registration fee are borne by the college.

- The faculty also is encouraged to publish their research findings in National and International journals and a part of the publication cost is reimbursed by the institution.
- Study leave is extended to faculty members who wish to pursue Masters or Ph.D. Programmes.
- All the faculty members of various departments are encouraged to participate in National/International Conferences, Seminars, Training Programs, and also to organize National/International Conferences.

Note: Research papers and publications are shown in individual departmental profiles.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

- Regular feedback is obtained from the employers about the alumni of the college employed by them. The aspects of curriculum and needs of training are also covered in the feedback.
- Feedback is obtained from the parents of the graduates of the college. The aspects of curriculum and needs of training are also covered in the feedback.
- Regular feedback is obtained from the alumni of the college. The aspects of curriculum and needs of training are also covered in the feedback.
- Feedback obtained is analyzed and necessary action is taken to communicate the modifications required in the curriculum to the university.

**Industry:**

The college has established the a Career guidance and Placement cell which maintains professional relations with the representatives of industry. The HR managers of various companies are invited to the college campus to interact with the students. The students of various departments of the college are taken for industrial visits from time to time to keep them abreast of the latest developments in the market.

**Research Bodies:**

To keep the research temper alive in the campus, research Scholars from various fields are invited to the college to motivate the students to take up research projects in their further studies. The faculty members of the college are also motivated to take up research projects sponsored by AICTE. Faculty members on their own also keep on interacting with various research bodies and participate in various research projects. Some of the faculty members being a member of the professional bodies like IETE, CSI, ISTE attend the conferences which in turn helps them in effective operationalization of curriculum.



**University:**

The faculty members of the college are in regular touch with the concerned departments of the affiliating university and updates the latest information regarding their own respective subjects. They keep on visiting the Parent University time to time to keep themselves abreast of the latest trends in their field of study. The Professors from the parent university campus are also invited to the college from time to time to give seminars and talks to the faculty members.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

The institution is affiliated to JNTUA anantapur the curriculum is designed by the university itself. The revision of the curriculum will be taken up by the university authorities time to time and views of the affiliated colleges have been considered while design of the curriculum appropriately. The affiliated colleges role is very limited in the curricular aspects development in the affiliated university level.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

**-No-**

1.1.8 How does institution analyse/ensure that the stated objectives of curriculum are achieved in the course of implementation?

All the academic programs although developed by the University are in line and tune with the institutional goals and objectives, and also in line with the regional and national goals. The curricula, prepared by the university, are always done in consultation with the academicians and technical experts drawn from industry, keeping in view the requirements of both the industry and society. This is making the graduates of PCET, with overall development to stand in the competitive education hub for employability at the national and international level. This is how the academic programmes offered by the college have relevance to the regional /national trends and developmental needs of the community. In the curricula development process, the staff of the affiliated colleges are closely associated and play a key role. The institution offers equal opportunity for stakeholders of all sections of the society in the process of knowledge dissemination and admissions process as per the AP government reservation policy and eligibilities accordingly.

As per the UGC directions, the curriculum includes courses relating to ecology and environment as a part of their syllabus as a core subject. Further, the students

of the college are encouraged to participate in various programs like clean & green and plantation programs, blood donation programmes, Aids awareness programmes organized by the students. In order to have value orientation and to increase the career opportunities the students are trained in pre-placement training and soft skill programs. The computer based courses have all the technical exposure to ICT within the curriculum, while students admitted in other courses have C and C++ programming included as a part of their lab work. It may be stated here that the students of PCET are groomed to stand in the competitive global market in their respective fields and this is evident from the track record of their placements in several MNC's at home and abroad.

Regular feedback is taken from all the stake holders such as the employers, alumni, parents, students and media reports to assess the extent to which the Program Objectives are met. The important bodies of the institute such as governing body and academic committees take necessary corrective actions.

## **1.2 Academic Flexibility**

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

### **Long term goals:**

- To be a provider of quality education to have global recognition.
- To attain the status of deemed to be university.
- Introduce various professional programs in collaboration with global institutions of repute.
- To undertake nationally acknowledged R&D works by forging alliances with Research Organizations and Industries.

### **Short term goals:**

- Strive for attracting quality faculty and provide incentives for existing faculty to acquire higher qualifications.
- To adopt innovative teaching methodologies to optimize the teaching learning processes to bridge the gap between theory and practice.
- To improve the quality of student admissions.
- To achieve 90% pass percentage in university examinations from the current 80%.
- To train the students in a wide range of technical skills, managerial skills including life skills to make them industry ready.
- To organize life skills programs so that the students can communicate coherently, rationally and convincingly.
- To get NBA Accreditation for all eligible programs.
- To get institutional accreditation by NAAC.
- To attain 90% percent placements among the eligible students.

- To become an autonomous institution under JNTUA.
- To become an autonomous institution under UGC.

**Program Educational Objectives**

1. To produce engineering graduates with a strong foundation in basic sciences, mathematics and strong basic knowledge in the field of their parent branch of Engineering.
2. To produce engineering graduates for successful and productive engineering careers, with emphasis on technical competency so that they are readily accepted by the industry with minimal orientation.
3. The engineering graduates should be capable of identifying, formulating, analyzing, and creating Engineering solutions using appropriate modern engineering techniques, designing skills and tools to develop novel products, solutions and simulation for the real life problems in their parent branch of Engineering.
4. To imbibe professional and social ethics and to develop the confidence for independent working and/ or team spirit to work cohesively with group.
5. To develop their ability to pursue higher studies globally.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

**-No-**

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability

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

a) **Core options:** There are seven core option subjects for the students who wish to pursue B.Tech courses and four core options at M.Tech level apart from MBA and MCA being offered by the institution.

b) **Elective options:** This aspect of offering elective options is inbuilt in the syllabus itself. The students have the option in the open category to choose three different electives out of a total of 9 suggested in the syllabus. The electives can be chosen at the 3<sup>rd</sup> and 4<sup>th</sup> year level. Similarly the students have the option in branch specialization category to choose five different electives out of a total of 20 suggested in the syllabus. The electives can be chosen at the 3<sup>rd</sup> and 4<sup>th</sup> year level. Different Electives are offered at PG level, differently for each P.G. course.

Choice Based Credit System and range of subject options: No  
Courses offered in modular form: No

Credit transfer and accumulation facility: No

Lateral and vertical mobility within and across programmes and courses: No

Enrichment  
courses

c) Add on courses: Presently no add on courses are offered to the students. However add on training programs are regularly conducted by the Placement Cell and the Department of English in communication skills for the benefit of the students. The students are exposed to soft skill training to prepare for placements, group discussions, problem solving skills etc

d) Interdisciplinary courses: All the undergraduate courses are inter disciplinary courses. While Physics, Chemistry, English, Mathematics and IT Courses are common to all the courses offered, depending on the combinations of courses, some courses in Engineering Drawing, Workshop, Electronics, Thermodynamics and Heat transfer are inbuilt in the syllabus and are being handled by different departments in the college.

e) Flexibility to the students to move from one discipline to another: The Engineering course structure has no provision for any flexibility of moving one course to another.

f) Flexibility to pursue the programme with reference to the time frame (Flexible time for completion): Normally duration of the course is 4 years, but the flexibility is given to student such that he/she can complete his course in 8 years

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.:

1. The college is a self financing institution approved by AICTE and affiliated to JNTUA, Ananthapuramu. The courses approved by AICTE and offered by the institution are as follows;

- (a) B.Tech (Civil Engineering)
- (b) B.Tech (Mechanical Engineering)
- (c) B.Tech (Electrical & Electronics Engineering)
- (d) B.Tech (Electronics & Communication Engineering)
- (e) B.Tech (Computer Science & Engineering)
- (f) M.Tech (Power Systems)
- (g) M.Tech (Digital Electronics and Communication Systems)
- (h) M.Tech (Computer Science & Engineering)

(j) Master in Business Administration

(k) Master in Computer Applications

**2. Admissions:** Admissions are done on the merit as per guidelines by JNTUA, Ananthapuramu. The State Govt. conducts a common entrance examination called EAMCET. The admissions are conducted by the convener appointed by the state government in accordance with the merit in EAMCET.

**3. Curriculum:** The curriculum is designed by the affiliating JNTUA, Ananthapuramu and implemented by the College through the well prepared socially committed patterns of instructions. Teaching aids like LCD projectors, OHP, Computer and audio equipments are frequently used for effective planning, implementation and delivery of the curriculum.

**4. Fee Structure:** The fee structure is provided by the Andhra Pradesh State Government and charged from the students accordingly.

**5. Teachers' Qualifications:** As per AICTE norms.

**6. Salary:** The AICTE qualification is mandatory for teachers. They are duly approved by university & State Govt. The Assistant Professors, Associate Professors and Professors ratified by the university are given AICTE pay scale.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries. **-Yes -**

The following specific programs are organized in the departments, besides adding additional contents to some of the individual subjects to enhance the skills of the students.

- Soft skill development programs
- Quantitative, Logical and Analytical skill development program
- Infosys Campus Connect program
- Value added courses in core areas
- Workshops
- Seminars
- Conferences
- Expert lectures
- Extension lectures

- Industrial training and Industrial tours
- Design projects.

1.2.6 Does the University provide for the flexibility of combining the conventional face- to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students? **-No-**

### **1.3 Curriculum Enrichment**

1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?

The institution being an affiliated college to the JNTUA does not have the freedom of formulating its own curriculum. Still, the courses run at UG and PG levels have their relevance to the institution’s goals and objectives. The college aims to impart such knowledge as may be necessary for the all round development of the character of students thereby making them capable of being better employed and at par with the highly competitive job markets. To reach out to the goals and objectives, the institution has evolved additional inputs in the syllabi to face the current trends in competitive areas. A series of Focused Group Discussions among faculty members at departmental level throw light on the limitations in the syllabus. To make up any deficiencies, the college supplements the university’s Curriculum by imparting special courses like value added courses, soft skill courses, Quant, Logic and analytic skill development courses and Computer based courses.

The institute supplements the University’s curriculum by conducting following academic programmes to achieve institution’s goals and objectives

- (a) Conduct of Value added Courses
- (b) Conduct of workshops and seminars
- (c) Coverage of topics in content beyond the syllabus in theory subjects

- (d) Conduct of experiments in the content of beyond syllabus in practical subjects.
- (e) Conduct of long term training in soft skills.
- (f) Conduct of long term training in Quant, logic and Analytical skills
- (g) Conduct of training in computer based subjects
- (h) Conduct of expert lectures

1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

As discussed in point 1.3.1, the college strictly adheres to the syllabus designed by parent University but while delivering this syllabus content to the students, our faculty enrich it with their own expertise and experience so that the students also gain employable qualities that enable them get jobs in this highly competitive world.

The training and placement cell of the college regularly interacts with the HR managers of companies and collects first hand information about the demands and expectations of the corporate sector regarding skill set of students. These demands of the companies are then communicated to the feedback committee which in turn formulates add on courses and extra classes which are then conducted to make up the deficiencies in the students to make them employable.

The task of framing of curriculum of the college, as stated earlier, is in the hands of its parent affiliating institution i.e. JNTUA. The institution can only enrich and organize the curriculum by supplementing it with extra courses (discussed in point 1.3.1) so that the students are benefited in the best possible manner. The institution has taken measures to cater to the global market needs based on the true assessment of strengths and services offered in the campus. To develop the required skills, brainstorming sessions are held for the faculty to design the tools in the areas of Spoken English, use of computers and providing in-depth knowledge in the respective subjects. Under the guidance of various committees, special training and tailor made orientations are conducted to enable the students to achieve the global standards. The institution is completely computerized at the administration and academic levels. Computer labs are well equipped with latest computers. Internet facility is made available at the library. OHP, Computers, LCD Projectors have been used for effective communication and teaching.

The affiliating University modifies the curriculum once in two years taking into account of industry needs and technological developments. The university receives suggestions from all the stake holders for up-dation of the curriculum. The institution interacts with the university in this process.



1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The syllabus framed by the JNTUA is taking care of information technology to all the undergraduate courses including basic course in C and C++ and computer aided courses like CAD, Computer Graphics, Bioinformatics etc., of the college. The syllabus is revised once in every two year so the students may compete in global employment markets. Special courses are offered to students, as a part of syllabus, to enhance their managerial abilities and communication skills. In addition to the IT related courses, special courses are being offered to students to make them equipped for placements, managerial courses etc. The success of meeting the global employment requisite, by the students of PCET, is clearly reflected in the number of students getting employed in the multinational companies, in particular the soft ware industry. More than 15 MNCs have recruited students in their respective companies over the years. More than 60% of the outgoing students are placed in campus recruitments.

The number of PCET students placed in different organizations is growing every year. The college is equipping its students with special courses like a proficiency course, being offered to B.Tech 2nd year students and soft skill programme for 3rd year students. The number of lecture hours for this program is 3 to 4 hours per week. This course is primarily offered to students coming from rural background with low level of communication skills. The course aims to train the students in LSRW skills (Listening, speaking, reading and writing). Students are encouraged to practice simple tests. They are taught the basics of the English language and rules of pronunciation and grammar. Various activities are conducted to give practice to the students in spoken English and improve their confidence levels. The students are periodically assessed and the course is modified to suit the requirements of the students. During third year, the students are exposed to soft skill training to prepare them for placements, group discussions, problem solving skills etc.

How ever the college has got administrative commities like women empowerment, women welfare, and other cross cutting issues representing in student welfare commities. To take appropriate steps and measures to help the cross cutting issuses time to time in the direction of the affiliated university, state government and AICTE.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- moral and ethical values
  - Guest Lectures on Ethics and values
  - Workshop on motivation
- employable and life skills
  - Training Program on soft skills
  - Training program on Quant, Logic and Analytic skills



Personality Development Programs

- better career options  
Training programs on Computer based subjects  
Revision courses in Core subjects
- community orientation  
Blood donation programs  
Health awareness programs  
Tree plantation  
Community Service

\*DETAILS ARE GIVEN IN DEPT EVALUATION REPORT

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The institution has various channels to collect and document responses on curriculum from the stakeholders. The students express their opinion on curriculum through feedback sheets. Oral responses are also considered. Special formats are used for alumni and parents to register their views during interface meetings. The Academic Advisory committee analyses feedback and prepares response chart for future use. The head of the department is responsible for collecting feedback from the different stake holders through periodic meetings pertaining to the department.

The Principal office will then process and submit the analysis report and present it to the college academic committee. The committee reviews the analysis reports and initiates interventions. The Head of the departments collect the exit level feedback from the graduates regarding learning processes after the end of academic session every year. The inputs are obtained from the stake holders regularly and further used to improvise the overall competency of the students for employability.

In addition the Vice Chancellor convenes meeting of Principals of all the affiliated colleges and seek their opinion on matters of importance.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The enrichment programs conducted by the institution are evaluated on the basis of students results, placements and students performance in the competitive examinations, feedback from the stake holders. All these aspects are examined from time to time to modify the programs.

The Institution makes sure that the programmes offered in the curriculum and outside the curriculum include contribution to national development, fostering global competencies among students, inculcating a value system among students, promoting the use of technology and quest for excellence. The College's efforts to ensure that the curriculum

bears a thrust on these core values include the initiative for Contribution to national development. The college uses education as the tool for empowering women and through the transaction of the curriculum it has adopted, it seeks to address the all round development of the students enrolled in the various academic programs it offers.

#### **1.4 Feedback System**

##### **1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?**

The institution is an affiliated college to the JNT University and therefore there is no scope for framing institution's curriculum on its own. However, A systematic mechanism is installed in the institution to look after the affairs of the feedback process and analysis through the College Academic Committee. The university expert teams visit the college a couple of times in a year for the purpose of extension of affiliation and affiliation of new courses.

During the inspection process the university expert team interacts with students and the faculty on several aspects of availability of facilities and teaching-learning process. Feed back is obtained by the committee and the same is conveyed to the university. In addition the Vice Chancellor convenes meeting of Principals of all the affiliated colleges and obtains their opinion on matters of importance.

##### **1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?**

Yes

Feedback is obtained from the students in a formal manner at the end of each semester in the prescribed format. The feedback is analyzed by the heads of the departments and a summary of the same is prepared. This feedback is primarily used for identifying the weaknesses in teaching learning process. The faculty is counseled by the heads so as to improve the process of teaching learning.

Feedback from the stakeholders such as employers, alumni, parents is obtained at regular intervals from which the adequacy of the curriculum is ascertained. Any shortcomings in the curriculum are discussed by the college academic committee and the same is conveyed to the University for Necessary Action.

The institution takes part in the curriculum development process through appropriate analysis of feedback given by the various stakeholders from time to time and assimilates the suggestions in the functional style of the institution. The meeting ratifies the responses and makes suggestions for modifying curriculum. Finally, the institution represents these suggestions through various capacities to the universities for appropriation of curriculum.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

S.No.	Academic Year	Program introduced	Rationale
1	2012-13	M.Tech(Digital Electronics and Communication Systems)	For strengthening ECE Dept and to meet the industry requirements.
2	2012-13	M.Tech(Computer Science Engineering)	For strengthening CSE Dept and to meet the ICT requirements.
3	2014-15	M.Tech(Power Systems)	For strengthening EEE Dept and to meet the industry requirements.

Any other relevant information regarding curricular aspects which the college would like to include.

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

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

2.1.1 How does the college ensure publicity and transparency in the admission process?

The college ensures publicity and transparency in admission process by following means

- a. Prospectus
- b. Institutional Website
- c. Advertisement in Regional/ National Newspapers
- d. Technical Education meets
- e. Hoardings
- f. Meetings of stake holders
- g. Electronic media
- h. Technical festivals
- j. Sports festivals
- K. Conduct of recruitment examinations of various organizations.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any

other) to various programmes of the Institution.

- **General:** The College do not offer any general courses.
- **Professional:** This institute is offering 5 UG and 5 PG professional courses. As per AICTE, AP State Council of Higher Education and JNTUA norms 70% students of UG and PG programmes are admitted through centralized admissions from the CTE. The remaining 30% of students are filled by the institution based on the responded students" to the notification given by the institution in popular regional news papers.
- **Vocational:** The college does not offer any vocational courses.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The admission into UG / PG technical courses in Andhra Pradesh is based on the common entrance tests EAMCET / PGCET respectively. The best and last ranks of the students admitted under various categories in the academic year 2016-17 in comparison with the colleges affiliated to the University in this district is as indicated below.

UG Programme: B Tech / BE:

	PCET	
	Best Rank	Last Rank
ECE		
Gen-Boys	32991	133313
Gen-Girls	79964	102699
BC-Boys	59885	136435
BC-Girls	29149	127016
SC-Boys	NA	NA
SC-Girls	40996	126434
ST-Boys	NA	NA
ST-Girls	NA	NA
EEE		
Gen-Boys	87759	113148
Gen-Girls	NA	NA
BC-Boys	74322	102525

BC-Girls	71560	71560
SC-Boys	93687	107340
SC-Girls	NA	NA
ST-Boys	76113	127163
ST-Girls	NA	NA
<b>CSE</b>		
Gen-Boys	62201	114889
Gen-Girls	48106	127141
BC-Boys	20851	135246
BC-Girls	38116	127802
SC-Boys	101095	127928
SC-Girls	93152	110239
ST-Boys	127928	127928
ST-Girls	117876	117876
Gen-Boys	128198	129198
<b>CIVIL</b>		
Gen-Girls	NA	NA
BC-Boys	87301	111929
BC-Girls	NA	NA
SC-Boys	135663	135663
SC-Girls	133407	133407
ST-Boys	NA	NA
ST-Girls		
Gen-Boys	NA	NA
<b>MECH</b>		
Gen-Girls	NA	NA
BC-Boys	70350	120936
BC-Girls	NA	NA
SC-Boys	107959	107959
SC-Girls	NA	NA
ST-Boys	NA	NA
ST-Girls	NA	NA

NA indicates no admissions under that category

PG Programme: M Tech,MBA &amp; MCA:

	PCET	
	Best Rank	Last Rank
DECS		
Gen-Boys	NA	NA
Gen-Girls	NA	NA
BC-Boys	NA	NA
BC-Girls	5053	5053
SC-Boys	NA	NA
SC-Girls	5335	5335
ST-Boys	NA	NA
ST-Girls	NA	NA
Power Systems		
Gen-Boys	NA	NA
Gen-Girls	NA	NA
BC-Boys	NA	NA
BC-Girls	NA	NA
SC-Boys	NA	NA
SC-Girls	NA	NA
ST-Boys	194	194
ST-Girls	NA	NA
CSE		
Gen-Boys	NA	
Gen-Girls		
BC-Boys		
BC-Girls		
SC-Boys		
SC-Girls		
ST-Boys		
ST-Girls		
MCA		
Gen-Boys	NA	
Gen-Girls		
BC-Boys		
BC-Girls		
SC-Boys		
SC-Girls		
ST-Boys		

ST-Girls		
MBA		
Gen-Boys	431	2998
Gen-Girls	5336	31249
BC-Boys	16633	41708
BC-Girls	18642	40109
SC-Boys	NA	NA
SC-Girls	21236	51443
ST-Boys	NA	NA
ST-Girls	NA	NA

NA indicates no admissions under that category

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process? **-No -**

Every academic year a review is performed on the quality of intake in comparison with previous years and also with reputed colleges in this region to know the college standing. This process has helped in taking necessary corrective measures to attract better quality in subsequent years. Although, this review has no effect on admission process as such, it has certainly helped the college to review its academic strategies to attract high quality input.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

- \* SC/ST
- \* OBC
- \* Women
- \* Differently abled
- \* Economically weaker sections
- \* Minority community
- \* Any other
- \* **Students from disadvantaged community(SC,ST,BC):** The rules of the admissions are prescribed by the state government/university and the reservation to various categories viz. S.C./S.T./B.C/Disabled/Ex-Servicemen/Sports/NCC/NSS as prescribed by all the colleges in the State admissions, are followed while making the admissions
- \* **Women:** 33.33% of the seats are reserved in all the courses offered by the college and the admissions are as per the reservation policy of the State Govt. under this category.

2.1.6 Provide the following details for various programmes offered by the

institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

The college has a track record of 100% admissions compared to the approved intake by AICTE.

Program	2016-17		2015-16		2014-15		2013-14		2012-13	
	Approved Intake	admitted	Approved Intake	admitted	Approved Intake	admitted	Approved Intake	admitted	Approved Intake	admitted
B.Tech(ECE)	180	76	180	134	180	38	180	126	120	109
B.Tech(CSE)	180	106	120	115	180	19	180	57	120	120
B.Tech(EEE)	120	13	120	40	120	9	120	48	120	101
B.Tech(ME)	120	8	120	48	120	11	60	47	60	48
B.Tech(CE)	120	10	120	54	120	19	60	51	60	60
M.Tech(PS)	18	1	18	6	18	14	Introduced in 2014-15			
M.Tech(DECS)	18	2	18	0	18	16	18	8	18	14
M.Tech(CSE)	18	0	18	3	18	14	18	14	18	12
MBA	120	24	120	44	60	15	120	48	60	54
MCA	120	0	60	6	120	0	120	18	60	44

## 2.2 Catering to Diverse Needs of Students

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institution caters to the needs of differently-abled students as per the requirements of the individual ward. Such students are attached to faculty counselors to take care of their specific requirements.

The institution is fully adhering to governmental policies regarding the needs of differently-abled students. Seats are reserved at the time of admission in various programmes. The college makes this sure that the classes of such students



are held at ground floor to the possible extent for the purpose of easy accessibility of books to them. During examinations such students are provided with help such as writers for the students having vision and functional disability. These students are encouraged at every level in the institution. Special Counseling sessions and lectures are also arranged for such category of students. Such students are also given half an hour extra time in the terminal and final examination

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

--YES

Students knowledge and skills are broadly assessed based on their performance in the EAMCET examination and their intermediate examination. Further their performance is also monitored in the internal examinations. The week , moderate and advanced learners are identified and necessary counselling is provided appropriately to them by the faculty.

2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice? (Bridge/Remedial/Add-on/Enrichment Courses, etc.

- Students from the disadvantaged communities are not segregated as it may adversely affect their morale. However, their needs are taken care by conducting some bridge courses (or) special classes rest of low performing students.
- For slow learners remedial classes are conducted and for advanced learners special tasks are given to keep up their enthusiasm.
- Tutorial classes are made part of the regular time-table for the analytical subjects in UG programmes wherever there is scope
- The main thrust of the tutorial classes is close interaction of students with faculty, where the students get their individuals doubts are clarified. Exclusive guest lectures by eminent people of that subject are also arranged. Besides this special assignments like seminars and presentations are taken up in the tutorial classes.
- Special classes after regular college hours are conducted in those subjects where some students are not able to cope with.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The institution holds the tradition of imparting holistic education with emphasis on the ethical and moral principles. The college which is co-educational institution sensitizes its staff and students on issues such as gender inclusion, environment etc by holding seminars On the relevant topics like women

empowerment. Celebration of women's day by teachers and students is the institutional tradition.

Women students are taken care by providing separate waiting halls and safe lockers. They are attached to women faculty members for guidance and help. The students' grievances cell comprises the senior women faculty members.

Exclusive guest lectures are organized to address different problems faced by Gender /environment / society.

Sports, cultural competitions, social awareness events are held to bring the environment of student community to develop equality, dignity, commitment and heritage among the students in addition to this the college offers subject on environmental education which is compulsory in the curriculum.

**2.2.5** How does the institution identify and respond to special educational / learning needs of advanced learners?

The advanced learners are identified by the teachers during their lectures in class room by means of getting feedback from the students orally and sometimes in writing. Students are subjected to various methods of evaluations like signaled answers, vocal responses, sample individual responses and written tests like class test, mid examinations conducted in curriculum. Based on the above indicators, students are identified as slow, moderate and advanced learners. They are supported in the best possible manner.

For slow learners, special tutorial classes are conducted. The advanced learners are attached to specific faculty members for necessary monitoring and mentoring. Advanced learners encouraged to participate in co-curricular activities in and outside the institution.

**2.2.6** How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.)?

Dropouts are very few and insignificant in this institute. The institute has a sound system of counseling and mentoring such students. Academic performance of the students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. is detected by the teachers during their lectures in classroom. We use marks as index for identifying slow learners students are subjected to various methods of evaluation, vocal responses, sample individual responses & written test after each unit of syllabus. These students who do not seem to cope up with the pace of learning are advised and counseled by the faculty members and the Head of the department. They are specially advised and counseled so as to help them improve themselves. Students are subjected to various methods of evaluation like vocal responses, sample individual responses and written tests after each unit of syllabus. Based on their performance, students are identified as slow and advanced learners. The morale of the slow learners is boosted by counseling

sessions, remedial classes and intensive interactive sessions. They are also given advice after class hours and are motivated by providing additional learning material such as text books and solved question papers from previous exams.

All the students are exposed to peer group learning where both the slow and advanced learners are combined. A friendly environment is created to improve the communication skills of the advanced learners. A number of motivational lectures are organized to channelize their potential to achieve success.

Potential cases are referred to the Chief counselor of the college. The college even makes use of services of specialist psychologist in the required cases.

### **2.3 Teaching-Learning Process**

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

The academic calendar is released by the affiliating university and is to be followed in totality by the college. The same academic calendar is published in the College prospectus and college website before the beginning of the session of every academic year. It provides plan for the academic year to students, teachers and parents. Each department functions according to the teaching plan prepared at the department level. The unit wise syllabus is discussed with the faculty of the department and the course work is distributed.

The faculty follows a lesson plan, which contains the details regarding institutional objectives to be achieved, details of contents to be covered, the kinds of aids and the logistics to be used inside the class room. A copy of the same is issued by the heads of departments to the faculty members. Teaching schedule is prepared by all the concerned and submitted to the respective heads of the departments every academic year.

Timetable is prepared and displayed on the notice board. The departments also carry out internal assessment based on student test performance and punctuality. The final evaluation of students is done according to the university schedule. Towards the end of each session / semester, theory and practical examinations are conducted by the university and evaluation is carried out. The exam results are declared and score cards are issued by the affiliating university.

2.3.2 How does IQAC contribute to improve the teaching –learning process?

IQAC committee comprising of stake holders and senior professors from each department along with HOD and deans in college level. The IQAC committee interpretes, suggests various quality assurance aspects related to institutional academics, R&D and skill development programs time to time.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

All the academic efforts of the institution are student centric and are aimed towards his personality development. Throughout the course of study several opportunities are

provided for the acquisition of life skills, management skills and lifelong learning process. Each student has to undergo courses in managerial skills as part of their curriculum. Various co-curricular and extracurricular activities such as technical festivals, technical quiz, paper presentations contest, mini project contests and poster presentation contest are conducted in the college to strengthen and to give an opportunity to develop their innate skills through self learning. College brings out half yearly news letter and yearly magazine.

The college offers a lot of support services to its teachers for making the learning student centric. The college provides a well stocked library which boasts of latest books and journals which the faculty uses efficiently to provide comprehensive and latest information to the students. Students are also encouraged to use the library independently that enhances their knowledge. Apart from it, the college provides a state of the art seminar hall where students participate in GD's, Debates and Seminars. The college also encourages the use of internet and computers by the staff and students to keep them abreast of the latest developments in their respective field of study.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The college concentrates on making the students original thinkers. To encourage the artistic temper among the students, the faculties motivate them to participate in various extra mural activities in technical festivals. The long list of prizes won by our students in technical festivals and other state level competitions bears a testimony to it. At the same time, to encourage the scientific temper among students, the faculty engages the students in various practical works on engineering labs and computer labs. To sharpen the critical thinking among students, various GDs, debates and seminars are organized in which students explore new ideas and also get a chance to listen to the expert views of eminent professionals.

The departments have professional society associations under which several programs are conducted to nurture creativity and scientific temper among the students. The programs organised by the associations are

- Guest lectures in advanced topics
- Expert lectures in emerging technologies
- Seminars on latest topics
- Workshops to enhance technical skills of the students
- Technical Quiz                      Paper presentations
- Mini projects                      Technical visits
- Essay writing                      Robotic games
- 

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

The basic teaching learning method is by lecture method with explanation and Interaction with the students. The use of modern multi-media teaching aids like OHP,

multimedia projectors, Internet enabled computer systems are usually employed in class room instructions as well as other student learning experiences. The students are also encouraged to use computer software packages for meaningful analyses of the experimental data collected/acquired by them.

- Teaching faculty at junior level are provided training in teaching methodologies. NPTEL video lectures are available in the department libraries in the form of DVDs and the same are used by the faculty and the students.
- Advanced teaching aids such as LCD projectors are available in adequate Quantity.

It is a part of the course requirement that each B.Tech IV Year student to do his/her main project work in the college or outside.

- Some students do their project work in industry or at reputed institutions.
- Computer assisted learning is available in different computer labs attached to individual departments.

A separate facility is created for online browsing for reference work to scan more than 300 journals. A separate e-resource centre is also available for the students.

Each department conducts guest lectures by inviting experts in related fields on a regular basis both from Universities and Industry.

Each department conducts National Level Symposia every year (please refer respective departmental profiles)

Each department also conducts one day seminar or workshop as per the requirements of the new developments in the subjects.

The students are encouraged to participate in various technical seminars and workshops conducted by other institutions,

- universities in and outside the state. Departments have also conducted number of workshops.

***Note:** Detailed information regarding seminars, workshops conducted by each department is presented in the departmental profiles.*

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

College conducts lectures and seminars by experts on various issues in which faculty members and students are encouraged to participate and reap benefits. The teachers go for refresher and orientation courses. Educational tours are also conducted. Over the past many years the faculty has been participating in the conferences and presenting papers in national and international level seminars. The various means by which the students and faculty are exposed to advanced level of knowledge and skills are

- By procuring latest reference and text books and placing the books in Library and departmental library.
- By inviting experts and organizing their lectures from industry, university and other national laboratories or organizations.
- The college encourages the students to participate in national and

international seminars and workshops.

- The staff is encouraged to teach a few latest topics in the subject even though they are beyond the scope of the syllabus.
  - The staff is encouraged to participate in in-house training, faculty improvement programs or orientation programs.
  - The faculty is encouraged to carryout research work within the institution and outside.
- The staff and students have access for on line journals.
- The college organizes technical seminars on a regular basis in all the departments.
  - The FDP programs are organized/attended by the faculty.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?

There is a provision for counselors/advisors for each class or group of students for academic and personal guidance. The students are divided into groups and each group is provided with counselor /advisor to provide academic and personal guidance to the needy students. It is done at all level of courses in all the divisions. The faculty in –charge carefully monitors the regularity of attendance, participation in seminars and other activities and also the performance of the students in internal tests/semester examinations. Accordingly the students are advised to improve by way of help and remedial /corrective action. The students who seek psychological boosting or the candidates who are psycho- socially left out are given psychological counseling by the college faculty itself. To add, the college teachers really act as a true friend, philosopher and a guide for the students.

- For every 15 students one staff member is allotted to provide counseling and to look into the problems of the students. The progress of the students is monitored by the faculty counselor.
- Mentoring is part of the duty of every teacher.
- Students" Advisers among the staff play a role in this area apart from departments of physical education and the library science.
- Career Advisory aspect is taken care by arranging expert lectures and interactive sessions with the help of experts from the industry.
- Placement co-coordinators are identified from the final year students to take training and help from the placement office.
- The staff member is a mentor in his class as he advises and cares for the students.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

The college encourages the teachers to keep themselves abreast of the latest



developments in their respective fields. They are encouraged to use computers, Internet and library resources to enrich their teaching. The college faculty is also provided training computer skills; latest software so that they can themselves create modern teaching aids to be used in their classrooms. From time to time the college faculty adopts approaches/methods such as seminars, conferences and special lectures. The faculty members are encouraged to participate in National/International level seminars. They are provided financial assistance for this purpose. The faculty members who attend such seminars/ conferences share their experience with students and faculty with latest information and talent developments.

The faculty members are allocated subjects based on their professional and teaching skills. The faculty members prepared detailed course files which consist of course schedules and the teaching notes. The teaching notes are elaborate and are available in digital form. This information is disseminated to the students for their use. Modern teaching aids are used for innovative teaching. The management of the college is making special efforts for the professional development of its faculty.

- The faculty is encouraged to apply for projects for research grants to different funding agencies such as AICTE, DST, UGC etc., which help to enhance professional competence and increase promotional avenues to the staff.
- Faculty is encouraged to pursue PhD programs and/or encouraged to take up the research work individually or in collaboration.
- The college also considers for financial support case by case.
- In order to cater to needs of the research activates by different departments the management of the college has planned for and central R&D facility with all the infrastructure and instrumentation required by the departments. This in itself is a huge encouragement for the faculty to pursue their research activities within the institution. These facilities would also help in Institutional- Industry interaction in research and development in engineering and sciences.
- The faculty is regularly encouraged to attend National and International symposia and conferences and present their research findings.
- The necessary travel expenses and registration fee are borne by the college.
- Study leave is extended to faculty members who wish to pursue Masters or PhD programs.
- All the faculty members of various departments are encouraged to participate in National/International Conferences, Seminars, Training Programs, and also to organize National/International Conferences.
- Note: Research papers and publications are shown in individual departmental profiles.

#### 2.3.9 How are library resources used to augment the teaching-learning process?

The college believes that the library is the epicenter of learning processes. 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
- \* Information Alert Service (Staff, Student)
- \* Competitive Examination Books
- \* Multimedia Service
- \* Old(Previous years) Question Paper from 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 664.11 sqm. and with all modern facilities. The library has the following

Number of titles	4215
Number of volumes	17183
No. of Technical Magazines/Periodicals	03
No. of Journals in hard copy	75

In addition to the central library, the departments have libraries in their respective departments. Faculty can refer the journals and borrow the books from the library. Online journals are accessible from the computers made available in the faculty rooms and departmental libraries. The faculty prepares the teaching material in comprehensive manner in both soft and hard copies well in advance of course commencement. This will make faculty better prepared and makes the dissemination of the information to the students easier.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these. –Yes-

The JNTUA, Ananthapuramu follows semester systems and prepares a tight schedule for completing the class work. In the recent past there were agitations for separate Telangana state due to which the number working days availability got affected. The college followed extended working hours, to makeup the loss and complete the curriculum. Otherwise the college has a well laid down system to plan the schedule in advance and monitor the coverage of syllabus on regular basis to ensure curriculum completion within the given schedule.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?  
The Institute monitors the quality of teaching by several means such as

- Scrutiny of Course files prepared by faculty
- Regular meetings of the students' representatives of the class and the faculty



- Oral and written feedback from the students
- Students' performance in the internal examinations
- Students' results analysis

Teaching and learning process is best attained by interactive process between the teacher and the taught. The success of the teacher however, depends on their innate ability and art of his teaching methodology and through preparation for the class. These processes cannot be quantified or universalized. Generally the standard methods of teaching, learning and evaluation methods which are proven over the years are being followed. Institution makes regular effort to enhance the staff skills and their ability by organizing in house- training programs and or deputing the staff to get training in communication skills and other areas of standard methodology. Some of the points are discussed with the staff by the Director/Principal with individual staff based on the student feedback for further improvements.

- The staff in whose subjects more than 10 students fail are counseled by the Head of the Department / Director
- Any short comings identified in theory class or practicals are being addressed through guest lectures / conducting tutorials / printing reference materials (literature or teaching).

## 2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

Positions	Teaching faculty					
	Professor		Assoc. Prof		Asst. Prof.	
	M	F	M	F	M	F
<b>Ph D</b>	22	6	0	0	0	0
<b>M.Phil</b>	0	0	4	0	0	0
<b>PG</b>	0	0	43	5	120	26
<b>UG</b>	0	0	0	0	7	0

Temporary teachers: NIL

Part time teachers: NIL

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Temporary teachers							
Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Part-time teachers							

Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

As far as the Engineering branches such as Computer Science & Engineering, electronics & communication Engineering, Electrical & Electronics Engineering is concerned, our institution has made a lot of efforts to recruit the best quality teachers. The institution conducts seminars on all branches of Engineering at regular intervals to upgrade the technological skill of our teachers. To attract the new faculty and to retain the existing teachers the college provides requisite facilities like subsidized transportation for teachers coming from a distance, research facilities like library, internet etc. The institution is paying higher scales to more qualified teachers or resource persons to meet the demand of scarcity. More guest lectures are arranged in the identified and specific fields.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

<b>Academic Staff Development Programmes</b>	<b>Number of faculty Nominated</b>
Refresher courses	32
FDP programmes	15
Orientation programmes	12
Staff training conducted by the university	03
Staff training conducted by other institutions	12
Summer / winter schools, workshops, etc.	47

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

<b>S.no</b>	<b>Dates</b>	<b>Workshop name</b>	<b>Organized by</b>	<b>Targeted audience</b>	<b>No of Particip</b>
<b>2016-17</b>					

<b>1</b>	23-09-17	PCB Design & Fabrication	<b>PCET</b>	<b>170</b>	<b>155</b>
<b>2</b>	23-03-17	Segmentation of the image	<b>PCET</b>	<b>180</b>	<b>162</b>
<b>3</b>	25-04-17	Emerging trends on communications	<b>PCET</b>	<b>150</b>	<b>146</b>
<b>4</b>	2-1-2017	Eminent trends in embedded systems	<b>PCET</b>	<b>160</b>	<b>137</b>
<b>5</b>	20-02-17	Quest2k17	<b>PCET</b>	<b>140</b>	<b>143</b>
<b>6</b>	03-11-16	Signal Processing in Radar Applications	<b>PCET</b>	<b>140</b>	<b>125</b>
<b>7</b>	06-08-2016	WCF Application Development	<b>PCET</b>	<b>150</b>	<b>112</b>
<b>8</b>	09-09-2016	Embedded Linux and Kernel Construction	<b>PCET</b>	<b>160</b>	<b>134</b>
<b>9</b>	03-01-2017	Seminar on Android Applications and Security	<b>PCET</b>	<b>140</b>	<b>120</b>
<b>2015-16</b>					
<b>1</b>	06-03-16	Robospices	<b>PCET</b>	<b>140</b>	<b>125</b>
<b>2</b>	02-05-2015	Network Simulators	<b>PCET</b>	<b>150</b>	<b>112</b>
<b>3</b>	23-03-16	Segmentation of the image	<b>PCET</b>	<b>140</b>	<b>137</b>
<b>4</b>	25-04-16	Emerging trends on communications	<b>PCET</b>	<b>150</b>	<b>143</b>
<b>5</b>	2-1-2016	Eminent trends in embedded systems	<b>PCET</b>	<b>160</b>	<b>125</b>
<b>6</b>	16-08-15	Image Processing & Its Applications	<b>PCET</b>	<b>120</b>	<b>112</b>
<b>2014-15</b>					
<b>1</b>	03-02-2014 To 09-02-2014	Free fabricated systems ( PI: G.Sudhakar)	<b>PCET</b>	Staff and industry persons	45
<b>2</b>	05-08-2014 To 07-11-2014	Concrete Technology ( PI : P.Ravi Kumar)	<b>PCET</b>	Staff and industry persons	39
<b>3</b>	15-07-14 TO 17-07-14	Short-Term Course On Communication Skills	<b>PCET</b>	Faculty	65
<b>4</b>	09-02-15 TO 16-02-15	“Big Data: Technologies & Challenges	<b>PCET, Nellore</b>	Faculty	32

5	15-07-14 TO 22-07-14	Short-Term Course On Communication Skills	Ladder Consultancy Services,	Faculty	65
6	05-11-14 TO 11-11-14	PCB design	<b>PCET, Nellore</b>	35	26
7	09-08-14 TO 15-08-14	Short-Term Course On Communication Skills	Ladder Consultancy Services,	Faculty	70
8	25-11- 2014 TO	Bravodos	<b>PCET, Nellore</b>	Students & Faculty	68
9	13.10.2014 To 17.10.2014	Five day workshop was conducted on “ Robotics and Automation”	<b>PCET, Nellore</b>	Staff & Students	75
10	05.01.2015 To 07.01.2015	Two day workshop on “Mechanical Robotics and Automation”	<b>PCET, Nellore</b>	Staff & Industry	30
<b>2013-14</b>					
1	01-09-13 TO 08-09-13	Foundations of Business Intelligence: Databases And Information	<b>PCET, Nellore</b>	Faculty	41
2	11-02-14 TO 17-02-14	A Two-Day National Level FDP on “Research Perspectives and Challenges	<b>PCET, Nellore</b>	Faculty	41
3	15-12-2013 TO 22-12-2013	ROBOTICS	<b>PCET, Nellore</b>	30	24
4	18-8-13	Rural Development By Green Energy	<b>PCET, Nellore</b>	Faculty	35
<b>2012-13</b>					
1	28-08-12 TO 30-08-	Workshop on Data mining tool WEKA	<b>PCET, Nellore</b>	Faculty	34
2	11-09-12 TO 13-09-	One Day Workshop on “BEx Web	<b>PCET, Nellore</b>	Faculty	29
3	25-9-12 TO 30-9-12	Distributed Generation in Grid	<b>PCET, Nellore</b>	Faculty	38
4	21-12-2012 TO 26-12-	Rishidarshini	<b>PCET, Nellore</b>	Students & Faculty	72

MORE DETAILS ARE GIVEN IN DEPT EVALUATION REPORTS

c) Percentage of faculty

- invited as resource persons in Workshops / Seminars /  
Conferences organized by external professional agencies:  
- **20%**
- participated in external Workshops / Seminars / Conferences

recognized by national/  
international professional bodies: - **50%**

- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies: - **50%**

The institution extends full support for the professional development of the faculty. The faculties are encouraged to pursue their M. Phil. and Ph. D. through faculty development schemes. The institution deputed its teachers to attend refresher and orientation programs, conferences, seminars and training programs organized by other institutes, universities and research organizations. The institution also conducts number of seminars, workshops and special lectures for the benefit of its faculties and students. The institute has conducted number of workshops/seminars/ conferences during last three years. The Institute grants duty leaves according to the nature of work. Financial benefits are given to the faculty for publishing their research papers in journals and conferences.

2.4.4

engagement etc.)

What policies/

- This institution's policy is to send minimum 20% to 30% of the staff every year to Faculty Development Programmes, workshops, seminars, research activities etc., to the extent possible not more than one opportunity for staff per semester.
- Reimbursement of registration fee up to Rs. 3,000/- per paper publication /
- presentation For Paper publication in International Journals, compensation is given in travel grant in addition to the AICTE, DST, UGC aids.
- Staff acquiring higher qualifications in the same position and not eligible for higher promotion are provided with monthly incentives till promotion, based on the qualification acquired.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The college provides necessary infrastructure and other required support to encourage teachers to excel in their teaching. The study centric environment and conducive atmosphere of the college encourages teachers to prove their mettle. As a result, many teachers have been rewarded by various state and national level bodies.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Yes, our institute gets the evaluation of the teachers done by students in every semester in a well designed format. The head of the Department takes feedback of the teachers from the students. At the end of every semester students give feedback of individual faculty members on their teaching skills on a prescribed format. The

feedback form mainly focuses on the various teaching skills of the faculty members, like presentation, communication, knowledge, content covered, innovative practices and laboratory work. If any faculty doesn't meet the benchmark on feedback, he/she is counseled for the future. In addition teachers are evaluated by the affiliating university during the ratifications process. More than 50% of our teachers are ratified by the university.

## **2.5 Evaluation Process and Reforms**

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The Stakeholders of the institution i.e. students and faculty members and even the parents of the students are informed about evaluation process by giving general instructions mentioned in the prospectus of the institution. The periodic instructions issued by the parent university are promptly communicated to the students. The students are individually provided with copies of the university syllabus which included the detailed evaluation procedure. Likewise they are informed at the start of the session regarding the terminal tests after the gap of three months. Students are clearly made aware of the eligibility conditions required to appear in the final exams. They are informed of the criterion of the internal assessment. The evaluation is the integral part of teaching learning process. So, the institution makes effective arrangements for the smooth application of the rules about the evaluation processes. The college has developed a proper Mechanism for this purpose. Time to time staff meetings are also conducted concerning evaluation process.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The students are allotted with roll numbers based on the code and criterion given by the affiliating university. The internal evaluation is conducted for theory subjects on basis of descriptive, objective tests and assignments. The internal evaluation carries 30% weightage. A continuous internal evaluation system is followed for practical subjects. The college is affiliated with JNTUA, Ananthapuramu. The university has initiated various evaluation reforms viz.

1. Introduction of internal assessment system.
2. Introduction of multilevel evaluation of answer scripts for external examinations.
3. Introduction of seating plan for internal and external examinations as per the guide lines of the affiliating university.
4. Provision for recounting and re-evaluation on the request of the student.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The evaluation reforms of the university are followed in the best of the

spirit. The evaluation is all fair; the students are satisfied by showing them the evaluated performance in the answer sheets. Any doubt about evaluation is made clear to the students. All record is maintained i.e answer sheets, award lists etc. internal tests are taken and record is kept. Whenever term tests are taken the results of the students performance/awards are shown to the students to encourage them or counsel them for better future performance. The performance of the students in the internal examinations is communicated to the parents also. The institution has followed the improved examination system as prescribed by the JNTUA, Ananthapuramu.

2.5.4 Provide details on the formative and summative evaluation approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

University is the sole authority for implementation of reforms in examination and evaluation but faculty members who are a part of academic bodies of the university actively campaign for reforms. Even then for bringing about a positive change in the evaluation practices, the institution adopts both formative and summative methods of evaluation. Formative approach to evaluation includes measuring the student's achievement through verbal tests, group discussions, seminars and assignments. The evaluation through these approaches gives lot of information about student achievement after teaching a particular unit. The concerned teacher may get some direction about the student and necessary steps regarding his/her improving can be pondered over. The summative evaluation is done during terminal tests. All faculty members follow the formative approach to measure students' achievements & performance through 1) group discussion 2) Internal objective type test 3) Internal subjective type tests 4) assignments.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

There is complete transparency in the internal assessment. The criterion adopted is as directed by the University. All the students are familiar about the transparency in internal assessment. 30% weightage is given to the marks obtained by the student in internal examinations for theory subjects and 50% weightage is given for practical subjects in internal assessment. The internal assessment is based on subjective type tests, objective type tests and Assignments. After preparing the assessment report, it is submitted by the concerned teacher and the same is displayed on the notice board at the end of the session. There are two midterm examinations in each semester, finally 80% the best and 20% of nextmid marks are considered. Employability enrichment augmented with CRT programs conducted for the students training is provided to the students beyond curriculum. Behavioral aspects and communication skills are comprehensive addressed in the placement training provided to the students. Communication skills are tested thro report writings, presentations and group discussions.



2.5.6 What are the graduate attributes specified by the college/affiliating university?

How does the college ensure the attainment of these by the students?

The College aspires to have a transformational impact on students through comprehensive education by inculcating qualities of competence, confidence and excellence. The college has specified its graduate attributes clearly.

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. Design/ development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources and modern engineering activities, with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in



multidisciplinary environments.

12. Lifelong learning: Recognize the need for and having the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

Students having grievances with the internal evaluation process can directly approach the concerned faculty member, who intern will discuss the performance of the student openly with the answer sheet. Students are also free to consult the Head of the Department incase of their grievances. For external evaluation by the affiliating university, re-evaluation fee is charged from the student and evaluation is done once again. The examination are conducted and controlled by university. The college has to follow the instructions of the university. If students have any problem, the principal of the college communicate to the concerning authority (Controller of Exams or other offices) of university about the grievances of the students. The institute follows open evaluation system where the student performance is displayed on the notice board and the same is informed to the parents. All grievances regarding evaluation, including the internal assessment marks awarded for the students, are redressed by the Examination Board and the various Heads of Departments. There is a provision for re-evaluation / recounting on request. The affiliating university has appointed an ombudsman to look into the grievances, as per the directions of the supreme court of India.

## **2.6 Student performance and Learning Outcomes**

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

*Each department prepares programme outcomes for each subject basing on the criteria mentioned by AICTE. Each programme will be mapped to cover some of the following outcomes.*

- a) The ability to work independently
- b) The ability to work in a team
- c) The ability to communicate well via oral presentations
- d) The ability to effectively express ideas through written communication
- e) The ability to apply knowledge of basic science, mathematics and Engineering principles to solve complex problems
- f) The ability to write correct and good computer programs
- g) The ability to construct appropriate abstractions to manage complexity and to think creatively about new problems
- h) The ability to understand the professional ethics and responsibilities of an

engineer

- i) The ability to understand the implications of contemporary computing and information processing issues relative to society
- j) The ability to acquire the foundations to do well in post graduate school
- k) The ability to compete and succeed in competitive examinations

The faculty are aware of the objectives and outcomes and they are listing them in their course files. The expected learning outcomes of a course are made known to the students in the class room during the introductory lecture by the faculty.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Each student will be knowing the marks obtained in the internal exams as the scripts are distributed in the class. The marks are also communicated to the parents by sending them the details through post. Every month the attendance details will be displayed to the students and those who are having lesser attendance will be counseled by their mentors. These details will also be communicated to the parents. The college has a system where the faculty will be posting the attendance everyday in a software called Ezschool. If anybody absents himself /herself for a class that message will be reached to their parents through SMS. Through the mentoring system which is in place in the college, the students will be knowing about their progress by the faculty and they are advised to take corrective measures.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The Institute aims to help students to reach their potential through the provision of a supportive, vibrant and challenging learning environment. All the staff is involved in the construction of this learning environment. All students are valued equally during their learning journey with institute. Accordingly, the curriculum, teaching and learning and assessment at college are student centric. The College has formulated academic committees that aim at enhancing the quality of learning, teaching and assessment across the Institute by providing academic leadership for the continued development of excellence in academic practice. The College is committed in creating an environment where students are supported to achieve their potential and working towards creating an inclusive learning community.

In terms of lifelong learning this strategy is intended to be learner centric, recognizing students' prior learning, experience and abilities. This requires the identification of individual learning goals and it will emphasize the importance of reviewing student progress against agreed objectives. Students are active partners with

shared responsibilities for their own learning and achievement. This strategy recognizes the need to develop progressively self directed and confident learners with the knowledge, skills, attitudes and values, which enhance their employability and progression opportunities. It acknowledges that students learn most effectively if they are supported as individuals to achieve personal development.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the courses offered?

Every institute has social as well as economic responsibility. The courses run by college have both social and economic relevance. College understands its responsibility in the socio economic parameters. The institution at the time of the admission provides counseling regarding the choice of options the students wish to opt. They are guided regarding the future prospects of various options. Further they are sensitized on the societal responsibilities through guest lectures. The students are motivated through personality development programmes. Students are encouraged to participate in activities for social and community service. The College has made dedicated efforts to impart quality education and generate new knowledge through research and development activities. It has been contributing significantly in transforming socio-economic conditions of the people of this region. The College through the orchestrated efforts of teachers, supporting non-teaching staff and administrative officers has been generating highly skilled employable and socially responsible man power. College has developed self reliant, enterprising and employable human resource. The college has started many professional courses like B.Tech., M.C.A, MBA, M.Tech. etc., which are helpful in getting employment. Many industrial houses conduct job placement fair in college campus.

2.6.5 How does the institution collect and analyse data on student learning outcomes and use it for planning and overcoming barriers of learning?

Institution has specified procedure to collect and analyze data on student learning outcome, the following points are adopted by the institute in this context:

- Midterm and continuous evaluation comprising of internal tests, assignments, group discussions and seminar presentations.
- Tutorials, class tests, viva in the lab
- Mini project
- Annual system of examination for all courses. Seminar presentation by students

**Institute has taken following steps to overcome barriers:**

- Delimiting the length of the answers in order to promote to the
- point writings. Providing Question bank of various subjects to
- students.
- Timely Redressal of students' grievances.
- By showing answer books to students to make them understand their
- 
- 
-

relative strengths and weaknesses.

Minimum attendance limit for students to minimize absenteeism.

Extra classes for weak students to solve their problems.

The periodic evaluation of teachers helps in the improvement of learning outcome.

#### 2.6.6 How does the institution monitor and ensure the achievement of learning outcomes

The institution has a clearly defined, set mechanism to monitor the learning outcomes. Attendance is compulsorily taken for every lecture. Tutorials and laboratory hours are fixed. The tutorials and assignments are corrected within a short duration and the marks are entered in work register, which acts as a ready reckoner for the academic progress of the students. Based on the participation in the class and the marks scored in the tutorials and assignments, the student level is judged by the staff member and appropriate action is taken. At the end of each periodical test, progress reports which consist of midterm test results and attendance status are submitted to the office for further action.

Counseling is given to slow learners. Parents of such students are called to meet their respective faculty member, if required. As the entire lab courses are continuously assessed, students who lag in these courses are given additional help and guidance. They are also given additional lab practice. The faculty members are encouraged to conduct surprise tests, quizzes, etc. to monitor the academic progress of each student.

#### 2.6.7 Does the institution and individual teachers use assessment/evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

The institution uses assessment and evaluation both as an indicator for evaluating students' performance. The students who excel in the academics, sports or extracurricular or extra mural activities are given due advantage in assessment. General classroom behavior of the students is also kept in mind when evaluation of a student is undertaken.

Eg: Students are assessed on the basis of their performance in the internal examinations and classroom/lab activity. Student's performance in soft skills is also taken into consideration for assessing the performance. These aspects are discussed in the Class

Representatives meetings conducted by the Head of the Department which includes the relevant faculty. The outcome of the meetings is used to take up remedial measure such as extra classes, counseling and review of teaching learning process.

*Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.*

The college ensures that all the policies/systems regarding the teaching-learning process such as class work reviews committee and student feed back for teachers etc. are in the place and/or scrupulously followed. High discipline is ensured in the evaluation process examination system and attendance of the students to ensure that the quality of the highest order is maintained in the college.

### **CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**

#### **3.1 Promotion of Research**

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

PCET does not have any University recognized research centre/s of the affiliating University any other agency/organization. However, faculty members and students of various departments are actively committed in research actions in various research areas.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the College has a Research & Development cell to supervisor and address the topics of research. Every month the R&D cell analysis and map for the motion of each department. The combination of the Research & Development chamber is as designed below:

<b>S.No.</b>	<b>Name of the Department</b>	<b>Name of the Faculty</b>	<b>Designation</b>
1	EEE	Dr.M.V. Ramesh	<b>R&amp;D CELL DIRECTOR</b>
2	MECH	Dr. R. Srilakshmi	Professor
3	ECE	Prof.M.L.N.Acharyulu	Professor
4	CSE	Dr.M.Pavan Kumar	Professor
5	H&S	Dr.G.Prathiba	Professor
6	MBA	Dr. T. Ravindra Reddy	Professor

#### **Impact of the Recommendations of Research Committee:-**

1. Several consultancy works have been taken up by the faculty of various departments.

2. Faculties have published several research papers in Journals and Conferences.
3. Sizable number of Faculty pursuing their doctoral programs.
4. A centralized research lab has been established. Additional equipment has been procured for R&D.
5. Sizable numbers of research journals are subscribed by the central library.
6. The student projects for UG and PG courses are conducted in the college under the guidance of the faculty.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

**(a) Autonomy to the principal investigator:**

Dr.M.V. Ramesh has been appointed as Director (R&D). He has been assigned with the responsibilities of coordinating with the senior faculty of the institute to promote research, consultancy and high end training.

**(c) Timely availability or release of resources**

Necessary funds have been provided by the management for the above activities. Some of the consultancy works, training programs are generating revenue for the institute which is specifically used for R&D activity.

**(d) Adequate infrastructure and human resources**

The institute maintains faculty to student ratio of 1:15 in respect of UG courses and 1:12 in respect of PG courses. Senior faculty is utilized for R&D activity by reducing their teaching load. Adequate infrastructure and equipment has been made available for the R&D.

**(e) Time-off, reduced teaching load, special leave etc. to teachers**

Teaching load is reduced for the faculty involved in research and development or consultancy. On duty facility is extended to the staff visiting other organizations for promotion of R&D and consultancy.

**(f) Support in terms of technology and information needs**

High end systems, internet facility, hardware and software are available for the purpose of R&D. A separate R& D Lab along with conference room has been provided. The research journals, both print version and online are available in the central library.

**(g) Facilitate timely auditing and submission of utilization certificate to the funding authorities**

Director (R&D) carried out audit of consultancy works undertaken by various departments. Utilization certificates are submitted in respect of all grants received

from external agencies.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The college management triggers students to participate in National and International seminars and modern their research papers. Regular advice is provided by merge with the experienced-guest faculty. PG students have Research approach as a subject in their curriculum. Student projects are effectively encouraged and support is given. The students are constantly encouraged to interact with Industry experts and collect reviews related to their research work. The College also ensures that the students are bared to industry experts by pleasing them for guest lectures and demonstrations. The students are taught to write research papers and secure them with appropriate presentations.

S.NO	EVENT	2012-13	2013-14	2014-15	2015-16	2016-17
1	<b>NO.of internal symposia conducted</b>	8	8	10	10	10
2	<b>No of students participated in internal symposia</b>	365	386	357	399	405
4	<b>No of workshops conducted</b>	11	12	13	14	14
5	<b>No of projects expo conducted</b>	3	3	3	5	5
6	<b>No of projects exhibited</b>	44	49	47	64	66
7	<b>No of students participated in project expo</b>	130	117	118	229	218
8	<b>No of projects submitted to funding agencies</b>	NIL	NIL	NIL	NIL	NIL
9	<b>Funds received from different agencies</b>	NIL	NIL	NIL	NIL	NIL
10	<b>Number of publications by the faculty in national/international</b>	56	61	59	64	70

3.1. 5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Some of the faculty members are winding in research activity at their prospective levels. 11 faculty members are involved in research and pursuing their Ph.D from various universities. The faculties also provide proper guidelines to the students for their projects, like facilitating students by handover all the study materials essential for the projects. Teachers also handling special monthly classes for students with regard to their project work.

S.NO	NAME OF THE FACULTY	DEPT	REGISTERED FOR	UNIVERSITY	YEAR OF RIGISTRAT ION
1	Mr.M.L.N.Charyulu	ECE	Ph.D	JNTUH	2010
2	Mrs.A.Pavani	ECE	Ph.D	JNTUK	2010
3	Mr.S.Sreenivasulu	ECE	Ph.D	JNTUA	2014
4	Mr.A.Surendra Reddy	ECE	Ph.D	KLU	2015
5	Mr.D.Sreenivasulu	CSE	Ph.D	Rayalaseema	2010
6	Mr.D.Pramod Krishna	CSE	Ph.D	JNTUH	2012
7	Mr.J.Avinash	CSE	Ph.D	ANU	2014
8	Mr.D.Venkata Subbaiah	CSE	Ph.D	AU	2016
9	Mr.P.V.Narendra Kumar	EEE	Ph.D	SVU	2015
10	Mr.P.Rajesh	EEE	Ph.D	SVU	2015
11	Mr.S.Srinivasulu Reddy	H&S	Ph.D	Rayalaseema	2012

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

S.N O	EVENT	TOPIC	RESOURCE PERSON	ORGANIZATI ON	DATE
1	FDP	PCB Design	P.Vikas Reddy	Nellore	05/01/2017
2	FDP	Analog System	Dr.	N.B.K.R.I.S.T	15/10/2016



		Design using ASLK PRO	G.Nagireddy	Vidyanagar	
3	Workshop	Signal Processing in Radar Applications	Dr S. Varadarajan	SV University Tirupati	11/04/2015
4	Workshop	Design of Antenna Arrays	Ch.Srinivasa Rao	N.B.K.R.I.S.T Vidyanagar	25/6/2014
5	Workshop	CAD/CAM tools	Dr S. Varadarajan	SV University Tirupati	18/01/2014
6	FDP	Advanced Signal Processing	Dr S. Varadarajan	SV University Tirupati	7/9/2013
7	Workshop	Watermarking	Dr. SK.Mahaboob Bhasha	Geethanjali Institute of Science and Technology Nellore	15/9/2012
8	FDP	Radar Applications	Dr. G.Haranadha Reddy	N.B.K.R.I.S.T Vidyanagar	28/4/2012
9	Seminar	Networks	Mr. A. Chandra,	Sri vidyanikethan	02-05-2015
10	Seminar	Security	Dr. R. Md. Shafi,	<b>MIT</b>	06-08-2016
11	Seminar	UNIX	Dr.Raj kumar,	<b>VITS</b>	09-09-2016
12	Seminar	Security	Dr.Manoj	<b>VITS</b>	03-01-2017
13	Workshop	Networks	Mr. A. Chandra,	<b>Sri vidyanikethan</b>	02-05-2015
14	Workshop	Data mining	Dr. A.SURESH BABU	<b>JNTUA,ANANTAPUR.</b>	13-10-2015
15	Workshop	Data mining	Dr.C.H.Pradeep Reddy,	Assoc.Prof,VIT, Vellore	14-8-2015
16	Workshop	Data mining	Dr.Pavan Kumar,	Central University,Hyd.	16-9-2015
17	Workshop	Data mining	R.Rames	VIT,Vellore	03-09-2015

<b>18</b>	Work Shop	The various effective ways to develop communication skills	Dr K P Sarma	Audisankara Engg College, Gudur	11-10-2012
<b>19</b>	Work Shop	How to face interviews	Dr K Suneetha	Andhra layola Engg College, Vijayawada	11-11-2013
<b>20</b>	Work Shop	LSRWS Skills	Dr K P Sarma	Audisankara Engg College, Gudur	12-09-2014
<b>21</b>	Work Shop	Personality development and soft skills	DrK Suneetha	Andhra layola Engg College, Vijayawada	09-9-2015
<b>22</b>	Work Shop	LSRWS Skills	Dr K Suneetha	Narayana Engg College , Gudur	11-12-2016
<b>23</b>	special lectures	GST	Dr.N.R.V.Rama na Reddy	Assoc.Prof,VIT, Vellore	<b>16-03-2017</b>
<b>24</b>	Workshop	Consumer behavior	Dr.C.N.Krishna Naik	Central University,Hyd.	<b>19-12-2016</b>
<b>25</b>	FDP	New trends of management education	Dr. K. Ramakrishna Reddy	VIT,Vellore	<b>20-05-2016</b>
<b>26</b>	Workshop	Indian economy	Dr.N.R.V.Rama na Reddy	Audisankara Engg College, Gudur	<b>25-01-2016</b>
<b>27</b>	Workshop	Entrepreneurship	Dr.K.Rajesh Kumar	VIT,Vellore	22-09-2015
<b>28</b>	Seminar	Financial inclusion	Dr.Saravanam laxmanan	. VIT,Vellore	<b>11-2-2015</b>
<b>29</b>	Workshop	Business leader	Dr.K.Rajesh Kumar	<b>MIT</b>	<b>22-12-014</b>
<b>30</b>	special lectures	360 degree evaluation	Dr. P.Subaiah	<b>VITS</b>	<b>06-03-014</b>
<b>31</b>	Workshop	Business communication	Dr.Ramachandra Reddy	<b>VITS</b>	<b>29-11-013</b>

3.1.7 Provide details of prioritised research areas and the expertise available with the institution.

The following staff members of various departments are expertise in the different research fields.

Name of the dept	Area of the specialization/research	Expertise available
CIVIL	Water Resources	Dr.K.Vijaya Bhaskar Reddy
CIVIL	Chemical Engineering	Dr. Sonali mannan
CSE	Pattern Recognition	Dr.K.Pavan KUmar
EEE	Power Electronics	Dr. M.V. Ramesh
EEE	Power Electronics	Dr. K. Mekala
ME	Fracture mechanics	Dr. R. Srilakshmi
ME	Thermal engineering	Dr.K Ansari
ECE	Signal Processing	Dr. P. Manonmani
ECE	Imageprocessing	Dr. T. Suneethamani
ECE	Communication Systems	Dr. C.Raja
ECE	Communication Systems	Dr. Dasaradhan
ECE	Microwaves	Dr. Nandhagopal
ECE	VLSI Design	Dr. P. Murali Babu
MBA	Finance/Market	Dr. T. Ravindra Reddy
MBA	Finance/Marketing	Dr. P. Chakrapani
EEE	Power Systems	Dr. Nalinikanth Mohanthi
EEE	Power Systems	Dr. A. Srinivasan
EEE	Power Systems	Dr. S. sankar
CSE	Computer science	Dr. R. Vijayaraja
CSE	Computer science	Dr. T. Venkatesan
CSE	Patern recognition	Dr. V. Devabalan
CSE	Patern recognition	Dr. K.P. Kaliyamurthi
H&S	Study in thin films/microbattary applications	Dr. G. Pratibha
H&S	Physics	Dr. Saikiran
H&S	Organic regencies and spectra photometrics regencies	Dr. Sk. Rafi
H&S	Mathematics	Dr. Radhamadhavi
H&S	Organic Chemistri	Dr. Umaravisankar
H&S	Physical Director	Dr. A. Praveen Kumar

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Dr. R V S Satyanarayana, Professor in EEE from S V University, Tirupati  
 Dr. A Suresh, ADE, APGENCO, Nellore  
 Dr. V V K Reddy, Director, NBKRIST, Nellore  
 Dr. C H Pradeep Reddy, Professor, VIT, Vellore  
 Dr. K Venkata Krishna, Professor, VIT, Vellore  
 Dr. Veerabadra Reddy, Professor, G.PullaReddy College Of Engg., Kurnool  
 Dr. K. Sridhar, Professor, Thiagarajur College Of Engg., Madurai  
 Dr. N R V Ramana Reddy, Professor, Simhapuri University, Nellore  
 Dr. N. Rajyalakshmi, Professor, Andhra University, Vizag

Dr. G V Marutheeswar, Professor in EEE from S V University, Tirupati

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus? Sabatical leave is availed by:

S.NO	NAME OF THE FACULTY	DEPT	REGISTERED FOR	UNIVERSITY	YEAR OF REGISTRATION
1	Mr.M.L.N.Acharyulu	ECE	Ph.D	JNTUH	2010
2	Mrs.A.Pavani	ECE	Ph.D	JNTUK	2010
3	Mr.S.Sreenivasulu	ECE	Ph.D	JNTUA	2014
4	Mr.A.Surendra Reddy	ECE	Ph.D	KLU	2015
5	Mr.D.Sreenivasulu	CSE	Ph.D	Rayalaseema	2010
6	Mr.D.Pramod Krishna	CSE	Ph.D	JNTUH	2012
7	Mr.J.Avinash	CSE	Ph.D	ANU	2014
8	Mr.D.Venkata Subbaiah	CSE	Ph.D	AU	2016
9	Mr.P.V.Narendra Kumar	EEE	Ph.D	SVU	2015
10	Mr.P.Rajesh	EEE	Ph.D	SVU	2015
11	Mr.S.Srinivasulu Reddy	H&S	Ph.D	Rayalaseema	2012

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The awareness about the latest research available at institute level and university level is shared among the students and persons from all walks of life. The practical work or software development is demonstrated before the students and students are advised to check its practical applicability in market and in daily life. Some students respond well and the final shape is given to the desired modal and teacher in-charge monitors all the activities of new basic research.

### **3.2 Resource Mobilization for Research**

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Financial Year	Allocation Rs.	Utilization Rs.
2011-12	350000	325000

2012-13	400000	370000
2013-14	500000	480000
2014-15	525000	490000
2015-16	600000	570000
2016-17	625000	In Process

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The financial support for R&D is provided by the management in terms of the equipment and facilities required, travel expenditure to take up the research work. The seed money in small amount if any is taken care by the departments.

3.2.3 What are the financial provisions made available to support student research projects by students?

Research labs are established in all the departments where M.Tech programs are conducted. The labs are equipped with requisite facilities and systems for the PG students to take up their project work in the college itself. Journal / Conference papers are published in majority of the cases for every PG level project.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced .

The Institute has been conducting B.Tech, M.Tech, MBA & MCA course, and there is no condition for research work. However, for the regulation of research aptitude in the students, the institute takes several proposal like interdisciplinary seminars on current problem in technology, Engineering, management, Entrepreneurship and Information Technology.in organizing interdisciplinary research.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and Students?

Library facilities and its conducive environment encourage/ motivate the staff and students to take a forward step to pursue research in their relevant field/interests. The Institute has a well stocked library which includes latest syllabi as well as reference books of all relevant subjects and disciplines and the institute is always eager to purchase new edition of books every year. Basic research facilities are available in all departments. Each department has relevant infrastructure and instruments for basic research work. Internet connectivity has also been provided in many departments to help them review their academic as well as research programs. Institute also ensures that the deserving students should be facilitated to use the equipments, books, Journal, and lab facilities of the department beyond the college

timing and also during winter/summer vacations.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

NO

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.

The institution supplies all secretarial assistance, photocopying facilities etc., for the preparation of the project proposals. Further in case of funding agency needs the chief investigator to make the presentation of the project proposal and give clarifications, the necessary travel and other expenses in that regard are provided by the institute.

### **3.3 Research Facilities**

3.3.1 What are the research facilities available to the students and researchscholars Within the campus?

- (a) Embedded Systems Lab
- (b) VLSI Lab
- (c) Microsoft Innovation Centre
- (d) Power Electronics Lab
- (e) Simulation Lab
- (f) CAD / CAM lab

3.3.2What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

As per the curriculum issued by the affiliating University i.e JNTU University, Hyderabad, the basic infrastructure is available for the under graduate students. The university revises the curriculum once in two years. As the strength of students increases in the institution, Management itself procures new equipments as per the requirements and also submits the proposal to the AICTE under different available schemes. The institute also undertakes R&D and consultancy works. The grants received for research and consultancy work revenue is utilized to update the facilities.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments/ facilities created during the last four years.

Research facilities setup by the college by its own funding:

1. Colour Image Capture System in Metallurgy Lab
2. Variable Compression Ratio Diesel Engine in thermal Lab.
3. CNC Lathe and CNC Milling machine in CAD/ CAM Lab
4. Advanced computer systems in all labs

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

Various department have entered in MOU with relevant organizations for the purpose of providing facilities to their students for taking up project work. Notwithstanding the list of institutes listed below, students also avail facilities through their department Heads, at various Govt organizations such as APGENCO, APTRANSCO, DRDL, DLRL, RCI, BHEL, HAL, NRSA, ECIL, etc.

S.No	Institution	Area of collaboration
1	Idea Labs,	Exchange of expertise for students projects
2	Sellglobally Infotech	Exchange of expertise for students projects
3	RamSys Info Pvt Ltd	Consultancy in Mechanical Engineering
4	Analogic Tech India Pvt. Ltd.,	Facilities for projects in ECE and EEE
5	Somarothu Technologies	Facilities for projects in ECE
6	Wine yard Technologies	Facilities for projects in ECE and EEE
7	Orbit educational society	Facilities for projects in ECE and EEE
8	Construction Corporation	Exchange of expertise for students projects
9	Pratishta Industries	Facilities for projects in Bio-Technology
10	ICRISAT	Facilities for projects in Bio-Technology
11	Central University of Hyderabad	Facilities for projects in Bio-Technology

3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?

Our computerized library has modern catalogue and e-journal facilities. The library consists of 15355 books. Being one of the best stacked libraries in the region, the researchers within the region and outside make use of this facility. The library

subscribes to about 150 journals in print form and 150 online journals.

3.3.6 What are the collaborative researches facilities developed / created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The following infrastructures exist in the College campus which can be used for teaching as well as for research:

- 1) Laboratories.
- 2) Library.
- 3) Computers.
- 4) Instruments & Machineries.
- 5) Seminar Halls.
- 6) Auditorium.

### **3.4 Research Publications and Awards**

3.4.1 Highlight the major research achievements of the staff and students in terms of

- \* Patents obtained and filed (process and product) : Nil
- \* Original research contributing to product improvement: Nil
- \* Research studies or surveys benefiting the community or improving the services: Nil
- \* Research inputs contributing to new initiatives and social development: Nil

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?



3.4.3 Give details of publications by the faculty and students:

**SUMMARY OF PAPER PUBLICATIONS BY FACULTY**

<b>Dept.</b>	<b>Journal Publications</b>	<b>International Conferences</b>	<b>National Conferences</b>
<b>A.Y: 2016-17</b>			
EEE	23	5	3
ECE	12	1	4
H&S	3	0	0
CIVIL	2	0	0
MECH	08	0	0
CSE	21	1	3
MBA	1	1	1
MCA	0	0	0
<b>A.Y: 2015-16</b>			
EEE	20	4	1
ECE	8	1	5
H&S	3	0	0
CIVIL	2	0	0
ME	14	0	0
CSE	16	1	1
MBA	1	1	1
MCA	0	0	0
<b>A.Y: 2014-15</b>			
EEE	15	1	1
ECE	12	1	8
H&S	4	0	0
CIVIL	2	0	0
ME	8	0	0
CSE	17	0	3
MBA	1	1	1
MCA	0	0	0
<b>A.Y: 2013-14</b>			
EEE	17	1	1
ECE	10	1	7
H&S	4	0	0
CIVIL	1	0	0
ME	5	0	0
CSE	19	1	3
MBA	5	5	4
MCA	0	0	0

MORE DETAILS ARE ENCLOSED IN DEPARTMENT PROFILES

- Publication per faculty
- Number of papers published by faculty and students in peer reviewed journals (national / international)
- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)
- Monographs
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- Impact factor h-index

### 3.4.4 Provide details (if any) of

\* research awards received by the faculty -Nil

\* recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally  
- NIL-

## 3.5 Consultancy

### 3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

S.No	Date	Name of the Company	Purpose
1	June 2013	Steinbeis Centre for Technology Transfer	Renewable energy sources
2	Mar 2013	Microsoft Innovation Centre	To convert innovative ideas into reality
3	2011-13	IBM	Certification Programs in Computer skills
4	Feb 2013	Prathishta Industries	Bio-Technology
5	2010-11	IUCEE	To deliver various technology enabled courses
6	2009-12	Infosys Ltd	Campus connect program
7	2009-13	Fusion Technologies Ltd	Multi disciplinary consultancy work
8	2009 on wards	Coign Consultancy	Student soft skills
9	2009 onwards	Hyderabad Management Association	Professional skills of MBA Faculty and students

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The institute has entered into an MOU with Fusion Technologies Limited for seeking their help in industry institute interaction to facilitate consultancy.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The Institute makes every effort to encourage the staff for utilization of all human resources, intellect and available facility in the campus to promote liaison with industries/companies so as to thicken the ties between the two in a very flexible manner by which the consultancy services is gets a boost. The college motivates the professionally qualified faculty to utilize their expertise for consultancy services with the permission of the institute. This helps in promoting liaison with industry/companies.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

#### **CONSULTANCY WORKS UNDERTAKEN BY THE INSTITUTE**

<b>S No</b>	<b>Year</b>	<b>Project Name</b>	<b>Customer</b>	<b>Project</b>	<b>Principal Investigator</b>	<b>Associate Investigators</b>
	2014	Light Weight Bricks	Ultra Tech		D.Maheswara Reedy	Sk.imran
		Website Development	Geetanjali Institute of		D Pramodh	<b>Mr.G.Y edukon</b>
		Mobile Signal Jammers	Sri Sai Junior College		Mr.G.Suresh	Mr.S.Sreenivasulu Mr.B.mahesh
		Power quality improment	Srinivasa raw and boiled rice mill Kovvur		Prof TNVLN Kumar	1.PV Narendrakumar 2.G.Viswa
		Marketing solutions	Kumar Pipes,Nello		Dr.T.Raviindra	Mr.Y.Krishnakishore

<b>S No</b>	<b>Year</b>	<b>Project Name</b>	<b>Customer</b>	<b>Project</b>	<b>Principal Investigator</b>	<b>Associate Investigators</b>
	2013	Online Attendance Software	Sangamithra vidyalayam, Nellore		<b>Mr.G.Yedukondalu</b>	K Lavanya V V Krish

	Student Counter system	Siddartha Public School		Mrs.K.Rad hika	Mr.I.Sreenivasulu reddy
	Solar light system	Rajesh metal industries Nellore		Dr.G.Venk ateswarlu	1.P.Ki shore 2.T.Narasim
	Design and Manufacturing of Hydraulic ram	Sri Sai Fly ash & Cement		Dr.R.Sri Lakshmi	Mr.T. Munei ah

S No	Year	Project Name	Customer	Project	Principal Investigator	Associate Investigators
	2012	Automatic Fire Alarm System	Sangamithra Vidyalam		Mrs.A.Pavan i	Mr.P.Bhagath Mr.G.Ramakris
		Load distribution	Chandra Cold storage.Nellor		Dr.M.V.Ram esh	1 M. Ma

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

The institution is giving priority to distribute the revenue generated among the staff involved in the consultancy work to the major extent. Only cost of electricity, wear and tear of the equipment and consumables if any are given to the institution.

### 3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The College has always felt concerned about the increasing access of students from various sections of the society to higher education. With the state government policy of providing reservations, financial aids, scholarships and relaxation in qualifications for socially backward classes, the college has registered significant increase in students' social participation during last few years. The college aims to achieve its goal of providing higher education to create just, plural and equitable society in consonance with constitutional values. The major strength of this college is its ability to ensure holistic development of students to make them enlightened citizens. The college is an „equal opportunity“ institution established to provide knowledge and quality education to all sections of society. It aims to maintain modern outlook with contemporary developments without compromising moral values. To provide knowledge and quality based education to the students by inculcating moral values, scientific temper and employing state of the art technologies. It aims to pursue excellence towards creating manpower with high degree of intellectual, professional

and cultural development to meet the national and global challenges. The institute is conscious of its role in campus-community connection, wellbeing of its neighborhood and has initiated a number of community development activities. These include:

- The institution encourages the students and staff to participate in blood donation camps.
- The students of the college are involved in "Clean and Green Program" and other programs organized by the Government of Andhra Pradesh.
- The students actively take part in tree plantation programs in and outside the College.
- The students of the college regularly take an active part in arranging contributions during calamities such as floods, earthquakes, cyclones, etc. in and out of the state.
- The student also participate in organizing programmes to bring awareness among the public in neighboring areas on matter like prevention of AIDS , spreading of deceases, removal of illiteracy and environment protection.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

The institute is committed to attract students for participating in various social activities by ensuring consistent encouragement and motivation. A special mention can be made of Zoological Society, Eco Club, Science Club and dept of Youth Welfare. The institute has motivated the students to maintain plastic free campus by banning the use of plastic in the campus through which students imbibe to ownership and qualities of responsibilities.

- Alumni meet is conducted by the institute every year.
  - Need-based extension activities are conducted through different associations/committees of various departments.
  - \* Blood donation camps are organized. AIDS awareness programs are conducted for locals.
  - \* Considering the importance of computer knowledge in this era of computerization we provide easy and cheap access to computer education to our support staff.
  - Personality development programs are conducted regularly.
- Literacy Club conducts regular activities throughout the year.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The goals and objectives of the College are prominently displayed in the Information Bulletin given to the students at the time of admission. The College web

site provides adequate space to these goals. They find place in all the offices of the college, library and other major buildings of the college. Immediately after admission the students are made aware of these goals and objectives by conducting orientation program.

The institute has evolved a stakeholders' web by forming different platform like Research Committee, Alumni, Literacy Club, hobby Clubs with a fair representation of Students. The institute conducts parents meets at regular intervals. HR meets are also conducted to elicit views of the industry. The college Academic Committee in the planning process considers feedback collected from the entire stakeholder to prepare perspective on development. These developments prospective will be discussed in the respective committee. The reflection off the meeting will be incorporated in the plan. The management has developed evaluation tools for stakeholders to record their opinion, suggestions and objection for constructive developments for future. Institute is highly concerned with its stakeholder i.e. includes students, parents, staff, alumni.

**Students:**

- We value the opinions and needs of our students.
- One students of each Class is nominated as Representative. He/She communicates students' requirements and problems to the respective teacher/ head of department/ Principal. Students can also directly communicate with their mentors.
- \* Suggestion / Complaint box is placed at various places on the campus which are accessible to students.
- Students have the freedom to approach the HOD /Principal during working hours without prior appointment.

**Staff:**

- We have regular staff meetings to keep the staff updated about changes and developments of the institute.

\* Most of the decisions are taken only after consultation with the staff during staff meeting.

**Alumni:**

- \* We have constituted an alumni Association with a Professor In-Charge. The association organizes meetings and has regular formal and informal interactions wherein any alumnus is free to give their suggestions

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The college is incessantly organizing a number of outreach activities which relate to academic, social, cultural, community service, adventure etc and all culminating in building a healthy society contributing to nation building. The college with the help of many voluntary organizations and NGOs organizes the outreach programs. The institute has conducted several blood donation camps and tree plantations. The expenditures for the same are generally borne by such organizations but over and above if need arise; it is reimbursed by college. In the past 4 years the following extension and outreach programmes have been conducted by the college:

Academic year	CM's Relief fund(Rs.)	Blood donation camp(Rs.)	Local Schools (Rs.)	AIDS awareness programs(Rs.)	Charity Programs (Rs.)
2015-16				15000	
2014-15	67479	12000		10000	10000
2013-14		10000		9000	12276
2012-13		9000			50000

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The college under takes wide spread cross-curricular enrichment activities through NCC (Air-wing), Social-Club, NGOs and other forms of community development activities. During admission and orientation, the representatives of these units apprise students on the benefits and scope of the extension activities. The detail of the program is displayed on the notice board and an interaction of students is organized with NSS officer, NCC officer and Youth Co-ordinator of the college.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The institute has made a conscious effort to promote social justice as a value in learning process and administrative interactions. The institution sincerely practices state social affirmative schemes introduced by the government for the up-liftment of higher education to under privileged communities. The college Social Service unit has been organizing blood donation camps in the college. The students along with the college faculty have visited the orphanage, blind home and lepers' society. Extra facilities are given to differently-abled students. The college faculties along with the students have been visiting the local slums and the blind home where and take up charity activity.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

**Objectives:**

The college is demanding to instill the knowledge, skill and experience in students for their better future & career by means of number of extension actions to make them aware of the emerging movement, enable them to cope up with the altering scenario and to achieve the predictable aim. The college is trying to attain the organization's plan as well as the stakeholder's aim. The plan is to afford world class education to our students in order to develop their awareness and moral values for making them good human beings. For achieving the expected objectives the college is concentrating on the following parameters:

- Retaining experienced faculty members.
- Inviting Experts from outside for personality development of students in the organization .
- Conducting department functions for energizing the students.
- Organizing sports and cultural events for enhancing the student's interest.
- Conducting study tours to different industries for more experience.
- Organizing seminars and competitions for students' development.
- Involving the students in social works to make them realize the responsibilities towards the society.
- Maintaining the industry academia relationship.

**Outcome:**

- The performance of the institute has been developed by doing the above actions in terms of result and opportunities for the students.
- Participation in different social actions create belongingness in students for the Institute.
- Students are provoked for their better future and life
- The performance of the institute increased in competitive era.
- Industries are encouraged to provide chance for the students.



3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The institution is roping in communities to actively participate in all the extension activities. This has contributed to both community- institution networking and development of institutions.

- The local villagers are initially consulted and the youth of the villagers are made to involve in all the Social activities.
- Extensive local participations are witnessed during tree plantation, blood donation etc. the alumni association is also involved in all these extension activities.
- The institution has taken the initiative to make aware the society about social and health problems like female foeticide, dowry system, environment protection, consumer protection awareness, HIV awareness, anti tobacco and cleanliness awareness etc.
- Time to time survey is conducted to check the feedback and improvement in society. Seminars, individual discussion and group discussion are made to solve these problems.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

Govt. School, Kanuparthipadu, Nellore

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

**-NIL-**

### **3.7 Collaboration**

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc. –YES-

S.No	Institutio	Area of collaboration
1	Microsoft,	Microsoft Innovation Centre. Conversion of student's innovative ideas into reality.
2	Infosys	Enhancement of computer professional skills of faculty and students
3	IBM	Enhancement of computer professional skills of faculty and students
4	Idea Labs,	Exchange of expertise for students Projects

5	IUCEE	Skill enhancement programs for the faculty.
6	Sellglobally Infotech	Exchange of expertise for students Projects
7	RamSys Info Pvt Ltd	Consultancy in Mechanical Engineering
8	Fusion Technologies Pvt Ltd	Consultancy in converging Technologies
9	Mech Engineering	Consultancy in Mechanical Engineering
10	Analogic Tech India Pvt. Ltd.,	Exchange of expertise for students projects
11	Somarothu Technologies	Exchange of expertise for students

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

S.No	Institution	Area of collaboration
1	Microsoft,	Microsoft Innovation Centre. Conversion of student's innovative ideas into reality.
2	Infosys	Enhancement of computer professional skills of faculty and students
3	IBM	Enhancement of computer professional skills of faculty and students
4	IUCEE	Skill enhancement programs for the faculty.
5	Fusion Technologies Pvt Ltd	Consultancy in converging Technologies
6	Pratibha Industries	Exchange of expertise in Bio- Technology
7	Steinbeis Centre for Technology	Consultancy in Multi Discipline areas

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

S.No	Institution	Area of collaboration
1	Microsoft,	Microsoft Innovation Centre has been established with the latest software tools of Microsoft
2	Infosys	Enhancement of computer professional skills of faculty and students through training.
3	IBM	Enhancement of computer professional skills of faculty and students

4	IUCEE	Skill enhancement programs for the faculty through conduct of workshops with reputed industries and global web conferences
5	Fusion Technologies Pvt Ltd	Consultancy services with several industries in converging technologies
6	Pratibha Industries	Exchange of expertise in Bio-Technology.
7	Steinbeis Centre for Technology	Consultancy in Multi Discipline areas

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

The details of eminent personalities who are involved in the various activities organized by the college and also visited the campus and contributed to the development of the institute is provided in 3.1.8.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

- a) Curriculum development/enrichment: Nil
- b) Internship/ On-the-job training: Nil
- c) Faculty exchange and professional development : Nil
- d) Research : Nil
- e) Consultancy : Nil
- f) Extension: Nil g)
- Publication: Nil
- h) Student Placemen: Nil
- j) Twinning Programmes: Nil
- k) Introduction of new courses: Nil
- l) Student exchange: Nil m)
- Any other

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and Implementing the initiatives of the linkages/collaborations.

(a) The institute has entered into an MOU with Fusion Technologies limited, who intern will help the institute in industry-institute collaboration for research and consultancy work. Sizable amount of consultancy work has been undertaken by the institute during the last 3 years.

(b) Recently the institute has signed an MOU with Steinbeis Centre for Technology Transfer, India (SCTI) for industry institute interaction in the area of renewable energy sources and mechanical engineering.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

-NIL-

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

In order to create and enhance the infrastructure that facilitates effective teaching and learning, the policy is framed according to the strength of students in different streams. The policy also conforms to the strength of the staff appointed for the institution. There are various committees viz Departmental Advisory Committee, College Academic Committee and Governing Body to review availability and requirement of infrastructural facilities and approve creation of new facilities.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

- The college has excellent infrastructure facilities to run the academic programmes.
- The college has an administrative block, examination cell, central library, department libraries.
- Spacious and well ventilated and furnished class rooms.
- Computer centers for each department
- Digital library
- Seminar hall exclusively for each department
- Conference Halls
- Auditorium
- Ladies waiting halls
- Faculty rooms
- Well equipped laboratories
- Workshops
- Spacious drawing halls

To cater to the needs of the faculty and students a fleet of 10 buses, a canteen & Cafeteria, a post office (Nearby College), a stationery shop with reprographic facilities, a health centre with a part time doctor are provided within the campus.

The details of physical infrastructure available in the college:

S.No	Item	Area in Sq.m.
1	Instructional area	13707.62
2	Administrative area	2160
3	Amenities area	3218
4	Circulation & Other	4206
5.	Sports Field	4000
Total built-up area		28,345

S.No	Item	Total Nos
1	Classrooms	66
2	Tutorial rooms	28
3	Laboratory rooms	56
4	Seminar Halls	2
5	Drawing Halls	4
6	Auditorium	1
7	Conference halls	2

b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

To encourage sports and games activities play fields for

- Cricket, Throw ball, Volley ball, Basket ball, Ball Badminton, Kho-Kho, Hand Ball, Running tracks.
- Facilities for indoor games like table tennis, chess & carroms are also provided.
- Two dedicated labs for communication skill development with adequate

systems and software.

- A full fledged state of art T & P Cell is actively working and arranging on-campus placements and training to the students.
- Besides providing internet connectivity through LAN to all the departments and computer centers through 40 mbps internet facility.
- Medical checkup facility with doctor.
- For the uninterrupted academic activity a stand by 188 kVA (125+63) generators are provided.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

Since its inception in 2006, the college has been keeping pace with the changing needs and requirements to meet its academic growth. To keep pace with the needs and requirements, additional infrastructure is being added from time to time. In the last four years, many buildings have been constructed/renovated. The details of the facilities which have been added are as under:

- An additional floor has been added to Block-I to improve the infrastructure for I year class work.
- Block-II has been expanded with construction of an additional wing containing four floors. This facility has been created to cater for the academic needs arising due to increase in intake in the branches of CSE and ECE.
- A new block is under construction and will be available in a month's time for increasing needs of the institute.
- Hostels for boys and girls have been constructed in the college.
- A state of the art air-conditioned seminar hall has been constructed with seating capacity of 400.
- The administrative wing in Block-I has been renovated so as to improve the functionality and ambience.

A separate R&D lab has been added to give boost to R&D.

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The class rooms, where the differently abled students are attending will normally be provided in the ground floor. The persons authorized by them are permitted to borrow books from the library. They are also provided support in laboratory and workshops.

4.1.5 Give details on the residential facility and various provisions available

within them:

- Hostel Facility: The college has hostel facility for boys and girls
- Recreational facilities: Outdoor and indoor games
- Internet facility
- Recreational facility-common room with audio-visual equipments
- Constant supply of safe drinking water
- 24 hours Security

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

There is a Health Centre in the campus. Dr. M P Sri Krishna, MBBS has been appointed as a part time Doctor and visits the college on all working days.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

IQAC: Not established.

Placement cell: Available

Health Centre: Available Canteen: Available

Cafeteria: Available

Recreation facilities: Available

Drinking water facility: Available

Auditorium: Available.

Security: Available

## **4.2 Library as a Learning Resource**

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

The library committee is consists of Principal as Chairman, Librarian as Convener, one faculty member from each department and one topper student from 3rd year of each branch. The committee meeting will be held once in a semester. The committee discusses and tries to implement the aspects like,

- What are the recent developments and requirements of the students and the faculty during the past semester.
- Up gradation of library through new titles and increase in the number of volumes of existing titles.
- Steps to be taken to make library more user-friendly.
- Evaluation of the library usage

- Library services and usage Feedback from members (students and faculty)

#### 4.2.2 Provide details of the following:

Total area of the library (in Sq. Mts.) : 664.11 sq. mtrs

Total seating capacity : 150

Working hours (on working days, on holidays, before examination days, during examination days, during vacation)

on working days : 08:00 A.M. to 08:00 P.M.

on holidays : 10:00 A.M. to 04:00 P.M.

before examination days : 08:00 A.M. to 08:00 P.M.

during examination days : 08:00 A.M. to 08:00 P.M.

during vacation : 09:00 A.M. to 05:00 P.M.

- \* Layout of the library (individual reading carrels, lounge area for relaxed reading)

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Library Holdings	Year -1 (2016-17)		Year -2 (2015-16)		Year - 3 (2014-15)		Year - 4 (2013-14)		Year - 5 (2012-13)	
	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.
Text books	----	---	623	241083	446	173826	378	147160	384	125738
Library Holdings	Year -1 (2016-17)		Year -2 (2014-15)		Year - 3 (2014-15)		Year - 4 (2013-14)		Year - 5 (2012-13)	
	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.
Reference Books	4	2100	62	23932	223	86913	189	73580	192	62869
Journals/ Periodicals	62	67879	61	67150	64	67150			68	112204
e-resources					4					
Any other (specify)			--	--	--	--	--	--	--	--

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?



OPAC : 7 computers  
 Electronic Resource Management package for e-journals : 6 computers  
 Autolib searching tools to search articles in multiple databases  
 Library Website  
 In-house/remote access to e-publications : In-house access  
 Library automation : Library automated  
 Total number of computers for public access : 4 computers  
 Total numbers of printers for public access : 01  
 printers Internet band width/ speed □ 2mbps □ **40 mbps** □ 1 gb (GB)  
 Institutional store : available  
 Content management system for e-learning : available  
 Participation in Resource sharing networks/consortia (like Inflibnet) : DELNET  
 Available

#### 4.2.5 Provide details on the following items:

Average number of walk-ins : 300  
 Average number of books issued/returned : 200/150  
 Ratio of library books to students enrolled : 17  
 Average number of books added during last three years: 759  
 Average number of login to opac (OPAC) : 12  
 Average number of login to e-resources : 25  
 Average number of e-resources downloaded/printed : 20  
 Number of information literacy trainings organized : 2  
 Details of “weeding out” of books and other materials : NOT YET DONE

#### 4.2.6 Give details of the specialized services provided by the library

\*Manuscripts : Nil  
 \*Reference : available  
 \*Reprography : available  
 \*ILL (Inter Library Loan Service) : available  
 \*Information deployment and notification (Information Deployment and Notification) : available  
  
 \*Download : available  
 \*Printing : available  
 \*Reading list/ Bibliography compilation : available  
 \*In-house/remote access to e-resources : In-house access  
 \*available User Orientation and awareness : conducted  
 \*Assistance in searching Databases : providing  
 \*INFLIBNET/IUC facilities : DELNET facility available

#### 4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Yes, The library staff will assist the staff and students for accessing of books and e- journals in case of difficulty.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The physical presence of such persons for getting / returning the books is not insisted.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

Yes, important suggestions given in the students feedback are discussed with the library staff and are facilitated as per the feasibility. Exclusive complaint box is provided at the library. Any complaint received is being addressed by the Principal or Librarian immediately.

### **4.3 IT Infrastructure**

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

- Number of computers with Configuration (provide actual number with exact configuration of each available system): 430

#### **Number of Computers with Configuration**

##### **No of Computers: 60**

Processor: Pentium-4  
HDD: 80GB  
RAM: 1GB  
Monitor: 18.5 CRT  
Keyboard: Multimedia  
Mouse: Optical

##### **No of Computers: 150**

Processor: Pentium D  
HDD: 80GB  
RAM: 1GB  
Monitor: 18.5 CRT  
Keyboard: Multimedia  
Mouse: Optical

##### **No of Computers: 220**

Processor: Dual Core 3<sup>rd</sup> generation

HDD: 500GB

RAM: 2GB

Monitor: 17.5 LCD

Keyboard: Multimedia

Mouse: Optical

**Computer Student Ratio:** 1:2(For Pg Students), 1:4(For UG Students)

**Total Number of Systems:** 430

**Licensed Software's**

**System Software's**

1. Red Hat Linux 9
2. Windows 2000 Server
3. Windows Professional
4. Fedora

**Application Software's**

1. Oracle 9i
2. Multisim
3. Visual Basic 6.0

**Application Software's(free)**

1. Mozilla Fire Fox
2. Java Kit
3. Tomcat Server
4. Weka
5. Eclips
6. Net Beans
7. Winrar
8. T-Spice
9. Adobe Redear
10. Flash Player
11. Putty
12. Xilinx.

- Number of nodes/ computers with Internet facility: 430
- All computer labs have been provided with UPS facility

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- 40MBPS Internet facility from BSNL is provided for students & staff
- 40 MBPS bundled bandwidth connection from BSNL.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Providing campus wifi
- Provide more advanced software for research and development.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Academic Year	Maintainance	Upgradation
2016-17	1220000	845500
2015-16	982000	565000
2014-15	849500	318500
2013-14	447349	376000
2012-13	716000	656000

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- College is Providing on line NPTEL video material
- College is conducting Subject Expert webinars
- Staff rooms are facilitated with computers and Internet.
- College is maintaining a data base of objective questions of all courses and used for conducting online examinations. Students can check his level in each course.
- Development and deploying of events in college web site

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

Providing on line NPTEL video material for students Conducting Subject Expert webinars on different subjects like Data Mining, data Communication and others.

- The course material is also available in Digital library students can access

from any systems in the college campus

- Providing IBM tools and materials, through which students can learn and appear of certification. Using these tools they can develop projects and deploy in contest.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

-No-

#### 4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

	Description	CFY (2016-17)	CFY (2015-16)	CFY (2014-15)	CFYm1 (2013-14)	CFYm2 (2012-13)
a.	Building	21086000	269750000	275000000	355000000	323000000
b.	Furniture	300000	450000	437000	250000	154000
c.	Equipment	2050000	3820000	3045000	800000	1500000
d.	Computers	1210000	45000000	420000	1076000	810000
e.	Vehicles	800000	1200000	1000000	523000	3000000
f.	Portable water facility	500000	-----	-----	-----	-----

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

##### (a) Building maintenance committee:

A committee is constituted with a senior faculty as In-charge to monitor the maintenance of academic infrastructure and facilities.

##### Members of the Maintenance committee:

S.No.	Name	Designation	Position
1	Mr. M. Narasimha Reddy	AO	In-charge
2	Dr. T. Narasimha Reddy	Asst Prof.	Specialist Advisor
3	Mr. K.Nagendra Kumar	Asst Prof.	Member
4	Mr. V. Kishore Kumar	Site In-charge	Member
5	Prof. M.L.N.Acharyulu	Professor	Member

**Functions of the committee:**

- Proper upkeep and maintenance of the buildings
- Maintenance of the lawns and surroundings
- Carrying out minor repairs of furniture, electrical and sanitary fittings
- Maintenance of the roads, water tanks and other services in the compound
- Maintaining security
- Ensuring the safety requirements in the campus

**(b). Transport maintenance committee:**

A committee has been constituted for the day to day maintenance of the college vehicles.

S.No.	Name	Designation	Position
1	Mr. M. Narasimha Reddy	AO	In-charge
2	Mr. P. Chandra Sekhar	Assoc. Prof. in ME	Member
3	Dr.A. Praveen Kumar	PD	Member

**Functions of the committee:**

- Maintenance of the college buses
- Obtaining necessary clearance certificates, insurance, permits etc. for the college Vehicle from RTA
- Routine checking of the condition of the vehicles.
- Appointment of well trained and experienced driver
- Ensuring safety requirements like operation of Speed limiters, fire extinguishers etc.

**C. Electrical Maintenance Committee:**

Maintenance of all equipment related to electrical applications is taken up by this committee.

S. No.	Name	Designation	Position
1	Dr. M V Ramesh	Professor, EEE	In-charge
2	Mr. P V Narendra Kumar	Assoc. Professor, EEE	Member
3	Mr. S. Yanadiah	Lab Asst, EEE	Member
4	Mr. Ch. Sekhar	Electrician	Member

**(d). Equipment maintenance Committee:**

A team is identified for the maintenance of various equipment in the college. The team members are:

S. No.	Name	Designation	Position
1	Mr. G. Suresh	Assoc. Professor in ECE	In-charge
2	Mr. M. Malyadri	Asst. Professor, EEE	Member
3	Mr. Sk.Ahmeed	Lab Asst, ECE	Member
4	Mr. L. Hari Prasad	System Administrator	Member
5	Mr. T. Supriya	System Administrator	Member

This team takes care of maintenance of the equipment in the college. There is a well laid down procedure for reporting un-serviceabilities if any for undertaking suitable repairs.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

Calibration of the instrumentation equipment is taken up by the respective departments as and when required basis.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment( voltage fluctuations, constant supply of water etc.)?

The college is a HT consumer of AP Transco and took a load of 500 kVA, and has the connectivity through an exclusive 500 kVA transformer to sustain the voltage fluctuations. The college has a total of 363 kVA standbys Diesel Generator set for the uninterrupted power supply and this power supply also through UPS and power stabilizers.

Institute has trained staff for maintenance of UPS. Earthing pits are regularly checked and maintained.

The institution has a tie up with the company from which the purifiers were brought and the institution pays AMC to the firm for the regular and routine check up and upkeep of the purifiers.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

**YES.** The institution publishes its updated prospectus annually. The prospectus provides all the necessary information the students need to know. The college prospectus provides a complete profile of the college. The handbook is having the admission schedule, the details of the college working days, the fee details and the rules and regulations which the students need to observe during their stay in the college. The handbook contains the list of the facilities being provided to the students. The website is also updated regularly and the students are informed to browse the same.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

S.No	Year	Type of Scholarships	No of beneficiares	Amount Disbursed
1	2015-16	Sports/Merit/Poor	12	124000
2	2014-15	Sports/Merit/Poor	09	108000
3	2013-14	Sports/Merit/Poor	20	300000
4	2012-13	Sports/Merit/Poor	15	180000

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

The Government of AP provides different types of scholarships to students such as tuition fees waiver for eligible candidates and scholarships to SC, ST students. The details of fees reimbursement received by students of different categories is indicated below.

**Fee reimbursement from State Government:**

S.No	Category	2015-16		2014-15		2013-14		2012-13	
		Number	%	Number	%	Number	%	Number	%
1	SC	106	97.24	102	100	140	99.29	146	98.63
2	ST	09	100	11	100	12	100	14	100
3	BC	335	100	330	99.69	424	99.29	461	98.04
4	OBC	379	99.21	378	100	444	99.32	406	99.50
5	Minority	101	99.01	92	97.87	105	100	82	98.78
6	Others(GATE)	NIL		NIL		NIL		NIL	

5.1.4 What are the specific support services/facilities available for

- Extra classes are conducted both for technical subjects and to improve communication skills for the slow learners
- Institute scholarships are provided to the needy.

The institution helps the students of these categories in applying for scholarships from state and central governments. The details of students who have received the scholarships during the academic year 2015-16 are as follows:

Description	SC	ST	BC	EBC	Minority
Total No.	100	11	330	375	91
Amount Rs.	3495000	416000	11341000	12889000	3044500

- Students with physical disabilities: The class rooms, where the differently abled students are attending will normally be provided in the ground floor. The



persons authorized by them are permitted to borrow books from the library. They are also provided support in laboratory and workshops.

- Overseas students: There are no overseas students on the campus at present.
- Students to participate in various competitions/National and International - YES-
- Medical assistance to students: health centre, health insurance etc. : A full fledged Health center with a part time doctor is available on the campus.
- Organizing coaching classes for competitive exams – No-
- Skill development (spoken English, computer literacy, etc.,) - YES-

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

Entrepreneurship Development Cell is involved in arranging one day seminars / workshops by the well known entrepreneurs from medium and small scale industries.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- \* A full time Physical Director and three specialized trainers have been appointed.
- \* A Literary Club has been conducting various literary activities like debate, quiz, extempore etc., on regular basis and winners are awarded prizes and certificates.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

Year	UGC-CSIR-NET	SLET	IAS	GATE	CAT	GRE	TOEFL	GMAT	IELTS
2015-16	0	0	0	422	0	24	35	23	46
2014-15	0	0	0	12	0	15	14	19	8
2013-14	0	0	0	08	0	12	11	06	10
2012-13	0	0	0	22	0	09	09	04	17

5.1.8 What type of counseling services are made available to the students( academic, personal, career, psycho-social etc.)

- Academic and personal counseling by a teacher for a group of 20 students.
- For the total 4 years a consolidated report is maintained for each student.
-

A special Counseling officer Mr Narasimha Reddy takes up counseling for special cases. Assistance of psychologist is taken on required basis.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes, The College has established a separate Training and Placement Cell with a full time Placement Officer. It invites reputed companies for campus placements by sending the profile of the college. The institution also effectively uses its alumnus working with the companies in attracting the companies for campus placements. The T & P Cell is making all possible efforts to further improve the employability skills of students through its activities. It also conducts a well structured pre-placement training right from I year to III year. The students are fully trained by the time the campus recruitment process starts in IV year.

The list of companies that visited the college and the number of students selected is as given below:

S. N 0	Company Name	N0.of Selections year wise break-up			
		2015-16	2014-15	2013-14	2012-13
1.	Comtech	4	1		
2.	infoview	5			
3	Techmahendra	4	10	8	6
4	TCS	3			
5	Inventures	8			
6	Emphasis		4		
7	Pratian Technologies		1		
8	First source		4		
9	HCL		3		
10	KPIT		13		
11	IIT Labs				15
12	Apps associates				10
Total		24	36	8	31

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The college has established grievance Redressal cell for students in accordance with the guidance issued by the JNTUA.

No grievances have been reported during the last four years.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

Whenever harassment based on gender issues have been brought in, suitable enquiries have been conducted and action is taken. It is pleasing to note that such types of incidents were not reported for the last 5 years.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, The Anti-Ragging committee maintains a strict vigil in the campus, at bus-stops and buses to prevent ragging. No major instances of ragging have been reported in the last four years. A few minor cases detected have been disposed off by the principal by counseling the students and involving the parents.

**The following committee has been constituted for the academic year 2016-17**

Sl. No.	Name of The Staff Member	Designation	Position
1	Dr. K. Vijaya Bhaskara	Principal	Chairman
2	Prof. M.L.N.Acharyulu	Vice-Principal&HOD-	Vice-Chairman
3	Prof. D. Srinivasulu	HOD-CSE	Member
4	Dr. M. V. Ramesh	Professor-EEE	Member
5	Dr. R. Sri Lakshmi	HOD-MECH	Member
6	Mr.P.Kiran	HOD-CIVIL	Member
7	Dr. G. Pratibha	DEAN- H&S	Member
8	Dr. SK. Rafi	HOD- H&S	Member
9	Mr.P.V.Narendra Kumar	Associate Professor-EEE	Member
10	Mrs. A Pavani	Associate Professor-ECE	Member
11	Mr. D. Venkata Subbaiah	Associate Professor-CSE	Member
12	Mr. D.V.Suman	Associate Professor-	Member
13	Mr. G. Suresh	Associate Professor-ECE	Member

\*In addition to the faculty members student members are co-opted from all the departments.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Free medical aid on the campus.
- Insurance policies to all students.
- \* Scholarships to the economically backward students.
- Supporting facilities for getting Educational Loans.
- Organizing Book Fairs in the beginning of the academic year.
- Cash prizes for the merit students
- Free comprehensive placement training

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure

development?

**YES.** The alumni association meets every year. Sometimes it also meets in places outside the campus for the convenience of the alumni. The main activities are:

To help the college in bringing more companies and industries for campus placements.

To review the changes and trends in the industry and giving inputs for design of curriculum.

Provide feedback for evaluation of Program Educational Objectives.

To arrange interactive sessions with the students of present batch and to provide counseling.

The alumni help in bringing industries and companies for campus placements and provide employment opportunities to the students.

As few members of the alumni are entrepreneurs, they play an important role in motivating the students to become entrepreneurs.

## 5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student Progression %	CSE	EC E	EE E	MEC H	CIVIL	MB A	MC A
<b>2012-16</b>							
UG to PG	10	24	10	4	5	NA	NA
PG to M.Phil	NA	NA	NA	NA	NA	NA	NA
PG to Ph.D	NIL	NIL	NIL	NA	NA	NIL	NIL
Employed campus selections	16	8	NIL	14	4	6	6
<b>2011-15</b>							
UG to PG	9	25	3	NA	NA	NA	NA
PG to M.Phil	NA	NA	NA	NA	NA	NA	NA
PG to Ph.D	NIL	NIL	NIL	NA	NA	NIL	NIL
Employed campus selections	21	10	2	NA	NA	4	10
<b>2010-14</b>							
UG to PG	8	18	3	NA	NA	NA	NA
PG to M.Phil	NA	NA	NA	NA	NA	NA	NA
PG to Ph.D	NIL	NIL	NIL	NA	NA	NIL	NIL
Employed campus selections	12	6	NIL	NA	NA	8	8
<b>2009-13</b>							
UG to PG	7	15	4	NA	NA	NA	NA
PG to M.Phil	NA	NA	NA	NA	NA	NA	NA

PG to Ph.D	NIL	NIL	NIL	NA	NA	NIL	NIL
Employed campus selections	14	12	2	NA	NA	7	5

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Course	2015-16	2014-15	2013-14	2012-13
B.Tech(ECE)	87.4	70.3	82	78.50
B.Tech(EEE)	83.5	60.2	67.6	76.9
B.Tech(CSE)	73.7	70.9	78.3	52.63
B.Tech(ME)	75.0	--	--	---
B.Tech(CE)	63.8	--	--	----
MBA	100	84.7	86.27	77.58
MCA	88.88	97.67	95.45	98.27

The pass percentages of other institutes are not provided to the public by the university.

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Yes, provided department wise in department profiles

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- \* For slow learners remedial classes are conducted.
- \* Tutorial classes are made part of the regular time-table for the analytical subjects in UG programmes wherever there is scope.
- \* The main thrust of the tutorial classes is close interaction of students with faculty, where the students get their individual doubts clarified. Exclusive guest lectures by eminent people of that subject are also arranged. Besides this special assignments seminars and presentations are taken up in the tutorial classes.
- \* Special classes after regular college hours are conducted in those subjects where some students are not able to cope with.
- \* Separate counseling is made to build the confidence in them and to concentrate on studies.

### 5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The college has a large play grounds for games like cricket , football, hockey, baseball, basket ball, volley ball etc., with all modern facilities.

A qualified Physical Director Dr.A. Praveen Kumar with Ph.D qualification is available along with adequate supporting staff. .

**Sports facilities available in the college**

S. No	Game	Number
<b><u>Outdoor facilities</u></b>		
1)	Basket ball – Cemented court with fiber boards	1 Courts
2)	Football	1 Field
3)	Throw ball	1 Court
4)	Volleyball	2Courts
5)	Cricket	2 Fields
6)	Athletics(400 m Track)	1 Track
7)	Handball	1 Court
8)	Kabaddi	1 Court
9)	Kho – Kho	1 Court
10)	Ball Badminton	1 Court
<b><u>Indoor facilities</u></b>		
1)	Badminton	1 Court
2)	Tennikoit	1 Court
3)	Chess	10 No"s
4)	Carroms	5 No"s

**Intercollegiate / Inter-Engineering Tournament arranged**

No. of Students of the college represented in State/University team

Academic Year	No. of students represented
2016-17	10
2015-16	8
2014-15	30
2013-14	28
2012-13	26

**Department Physical Education Tournaments Organized:**

**2016-17**

PCET was organized district level cricket tournament in association with EENADU. 69 teams are participated.

**2014-15**

PCET was organized district level cricket tournament in association with EENADU. 100 teams are participated.

**2013-14**

PCET was organized district level cricket tournament in association with EENADU. 61 teams are participated.

**2012-13**

PCET was organized sports meet association with JNTUA, Ananthapuramu.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

**Academic Year :2015-16**

1. M.V. Sai Santosh of III year Mechanical is selected for ALL INDIA FENCING
2. CH. Yaswanth Praneeth of III year Mechanical is selected for south zone Basket Ball

**Academic Year :2015-16**

- 1.V.Siri Chandana of IV year ECE is Selected for South zone shuttle badminton team.

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The institute has a clearly set and defined mechanism of obtaining the feedback from the students and stake holders to improve the performance and quality of the institutional provisions. Following feedbacks are taken so as to assess attainment of Program Objectives and Program Education Objectives.

- Semester End feedback from the students
- Exit feedback from graduating students Alumni feedback
- Employers feedback
- Parents feedback
- Faculty feedback
- 

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the

publications/ materials brought out by the students during the previous four academic sessions.

The College encourages all its students to publish their articles in the magazines. For the technical student symposia conducted once in every academic year, by each Department, the posters and brochures are designed exclusively by the students. The students will be nominated to act as Editors for college magazine “ Capusule”. A Faculty from the Department of English acts as its Staff Advisor. The faculty members guide and mentor the students to carry out novel projects, and participate in various international

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The topper, an average student and a academically weak student of each section are nominated as a class representatives who has more integrity with other students, for all the sections from I year to final year. Regular meetings are conducted by the heads of the departments to review the problems faced by the students. Activities: For cultural and technical activities college provides the funding depending upon the anticipated expenditure.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

- \* Class Representatives
- \* Canteen Committee
- \* Anti Ragging Committee
- \* Cultural Council
- \* Library committee
- \* Literacy Club
- \* Departmental Societies / Associations

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- Staff and the Heads of the Departments will maintain rapport with the Alumni
- Active alumnae come and address 3<sup>rd</sup> and 4<sup>th</sup> year students towards career development programmes.
- \* The former faculty of the institution are invited for annual day, traditional day, workshops of the relevant departments.

Any other relevant information regarding Student Support and Progression which the college would like to include.

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**



## **6.1 Institutional Vision and Leadership**

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

### **VISION**

To be an academic institution in dynamic equilibrium with its social, ecological and economic environment striving continuously for excellence in technical education, research and technological service to the nation.

### **MISSION**

- Create and sustain a community of learning in which students acquire knowledge and
- learn to apply it professionally with due consideration for ethical, ecological, and economic issues. Pursue research and disseminate research findings.

Provide knowledge-based technological services to satisfy the needs of society and the industry.

- Help in building national capabilities in technology, education and research.

### **QUALITY POLICY**

To be an institute of excellence in Technical Education by imparting quality Technical Education through continual improvement. The institute facilitates faculty and supporting staff to work as a team and update their knowledge and skills, to match the industrial and technological development.

### **LONG TERM GOALS**

- \* To be a provider of quality education so as to get global recognition.
- \* To attain the status of deemed university.
- \* Introduce various professional programs in collaboration with global institutions of repute.
- \* To undertake nationally acknowledged R&D works by forging alliances with Research Organizations and Industries.

### **Short term goals:**

- \* Strive for attracting quality faculty and provide incentives for existing faculty to acquire higher qualifications.
- \* To adopt innovative teaching methodologies to optimize the teaching learning processes to bridge the gap between theory and practice.
- \* To improve the quality of student admissions.

- \* To achieve 90% pass percentage in university examinations from the current 80%.
- \* To train students in a wide range of technical skills, managerial skills including life skills to make them industry ready.
- \* To organize life skills programs so that the students can communicate coherently, rationally and convincingly.
- \* To get NBA Accreditation for all eligible programs.
- \* To get institutional accreditation by NAAC.
- \* To attain 90% percent placements among the eligible students.
- \* To become an autonomous institution under JNTUA.
- \* To become an autonomous institution under UGC.

The institution, Priyadarshini College of Engineering & Technology, has created a special niche for itself in the past one decade. An institution, like ours, has always stood for the cause of humanity. The vision behind the establishment of the institution was to empower the society with state of the art technical knowledge to enable them serve the nation and society to enhance living standards. The founders of this historical institution wanted the people of this area to have an open access to technical education & research irrespective of caste, color or creed.

#### **MISSION:**

The institution was set up with a mission to impart technical knowledge as may be necessary for the all round development of the students thereby making them capable of being better employed and at par with the highly competitive job markets. The college aims at instilling scientific zeal and developing skilled human resource to meet contemporary challenges. The college visualizes at facilitating young adult learners with opportunities to kindle their ethics and leadership potential thereby sensitizing learners towards inclusive social concerns, human rights, gender and environmental issues. The vision and mission of the institution is a reflection of the objectives of the National policies of higher education, in molding human resources to meet contemporary challenges. The Institution strives to shoulder the responsibility of making the nation's dream come true. The institution provides comprehensive education instilled with scientific and technological zeal, creating a platform for lifelong learning.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The faculty members are actively involved in decision-making process at their levels. They are members of College Academic Council which are involved in decision making in academic matters. Two senior faculty members are also members of the College Governing Council the highest body in the process of managing the college. A few Faculty members are in the committees like Anti-ragging Committee, Research and Development Cell, Consultancy Cell, College Day celebration Committee, Technical Exhibition Committee, Examinations Committee, Sports day Committee, Cultural festival Committee, and many other committees that are constituted for the smooth conduction of various events. All the new and revised policies to improve academic

activities, methodology of conducting examinations are reviewed and discussed in HODs meeting before implementation. Importantly, the Principal provides academic leadership and in association with the various faculties, evolves strategies for academic growth of the institution.

6.1.3 What is the involvement of the leadership in ensuring :

- the policy statements and action plans for fulfillment of the stated mission
- formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

The authorities gather information about the various aspects of College functioning through a number of ways. The management encourages the participation of the staff in the process of decision-making in institutional functioning. Both teachers and non-teaching staff have their representatives in the College's Governing Body, which is its highest decision-making body. The College has constituted different Committees teacher and members of the non-teaching staff which play an important role in the planning and implementation of activities in different spheres of institutional functioning.

The personal interaction of the Principal with various stakeholders, the faculty, the non teaching staff, the students, the guardians play an important role in this. This apart, information available in student feedback forms and information available in self-appraisal forms of teachers help the authorities plan proper support for the policies. The participatory role of the management encourages and sustains the involvement of the college staff, which is necessary for the efficient and effective running of the College.

The Principal is the Head of the Institution and he bears the ultimate responsibility for the smooth running of the College. The role of the Principal of the College is multi-dimensional. As the Head of the Institution, the Principal is responsible for both the academic and administrative functioning of the College. He prepares the agenda for Governing Body meetings. He places before the Body, academic and administrative matters requiring the Body's approval and he is responsible for executing its decisions. The Principal receives reports from the different College Committees, which offer advice to him in matters defined in the terms of reference of their functions.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The Institution mainly believes in spreading engineering knowledge to the

students to prepare them to meet the global requirements in terms of employability, research orientation and entrepreneurship etc., accordingly quality policy is developed.

The mission is created to give thorough knowledge on engineering concepts to the students along with reasonably good amount of hands on skills. To improve analytical skills tutorials are introduced.

The effective improvement of students in terms of academics is measured through percentage of marks obtained with reference to earlier situation. The rise in percentage of marks is again reviewed in Heads of the Departments meeting for further improvements.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The Management of the college is in constant touch with head of the institution and has an amicable rapport with the head of the institution. In the institution the members of the Management Committee meets frequently and the problems and issues related to college development, administration, appointment and infrastructural needs and student disciplines are discussed. In the Management committee meeting, head of the institute and some staff members nominated by the management committee are also present to provide information and suggestions if any. In the meetings responsibilities are defined and communicated to the staff through the head of the institution.

- Heads of the Departments are incharge of executing the policies with little variation depending upon the quality of students and number of staff available in each department.
- Most of the staff are nominated to be the members of institutions committees like Transport committee, cultural committee, canteen committee, library committee, feed back committee, training and placement committee etc., so that they can put forth their innovative ideas to achieve better results.

6.1.6 How does the college groom leadership at various levels?

Institution observes staff through student feedback, self evaluation report submitted by students and their active involvement in conducting workshops, seminars, publication of papers etc., generally based on the interest of the staff they are encouraged in those particular areas.

The management is always encouraging and supporting the involvement of the staff in the improvement of the effectiveness and efficiency of the institutional process. The management through the head of the institution involves the staff members in various activities related to the development of the college. The staff members are involved by way of constitution of various committees such as Building Committee, Advisory

Committee, Discipline Committee, Examination Committee, etc. The best working committee is appreciated and the staff members involved are suitably rewarded.

**6.1.7** How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

At the departmental and college levels, largely the decision making role is of the faculty. A decentralized functioning mechanism, empowers the departments and individual faculty with a great level of flexibility in academic administration, and helps the faculty in making decisions. The policies are well defined by the College authorities including the Managing Committee and Principal. In most of the committees, right from the Board of Management up to the departmental committees, faculty is represented. At the same time, there are sufficient checks and balances built in the system to see that these decisions are carefully taken.

These decisions can also be reviewed by higher authorities and committees in case of needs. The College Academic Committee meets at regular intervals. The committee also has representation of faculty and non-teaching employees of the College on required basis. The management gives suggestions on various aspects on the basis of Principals report and feedback it gets from the society. The suggestions of the management are communicated to the teaching and non-teaching employees and implemented by the Principal. He also assigns specific duties to various academic and administrative bodies of the College on the basis of suggestions of the executive committee.

**6.1.8** Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

The institution can proudly boast of a participative management. The management actively takes part in the working of the institution. The head of the management is in the leading role in governance and management of the institution. He, along with the other members of the committee, keenly observes the day to day working of the college administration, governance, management and academic activities. He inspires the staff members in staff meeting and by personal interaction to give their best in their teaching assignments. He communicates to the teachers the decision taken by the management and ensures that all the points are implemented properly. He is responsible to constitute different committees involving the staff members. He looks after the financial expenditure and manages the funds for different developmental activities taking place on the campus.

## **6.2 Strategy Development and Deployment**

**6.2.1** Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

- “The Institution is committed in imparting quality Education and Training, in the field of “Engineering and Technology.” It aims to be an institute of excellence in Technical Education through continual improvement. The institute facilitates faculty and support staff to work as a team and update their knowledge and skills, to match the industrial and technological development.”
- The Institution mainly believes in spreading engineering knowledge to the students to prepare them to meet the global requirements in terms of employability, research orientation and entrepreneurship etc., accordingly quality policy is developed.
- The mission is created to give thorough knowledge on engineering concepts to the students along with reasonably good amount of hands on skills. To improve analytical skills tutorials are introduced.
- The effective improvement of students in terms of academics is measured through percentage of marks obtained with reference to earlier situation. The rise in percentage of marks is again reviewed in Heads of the Departments meeting for further improvements.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

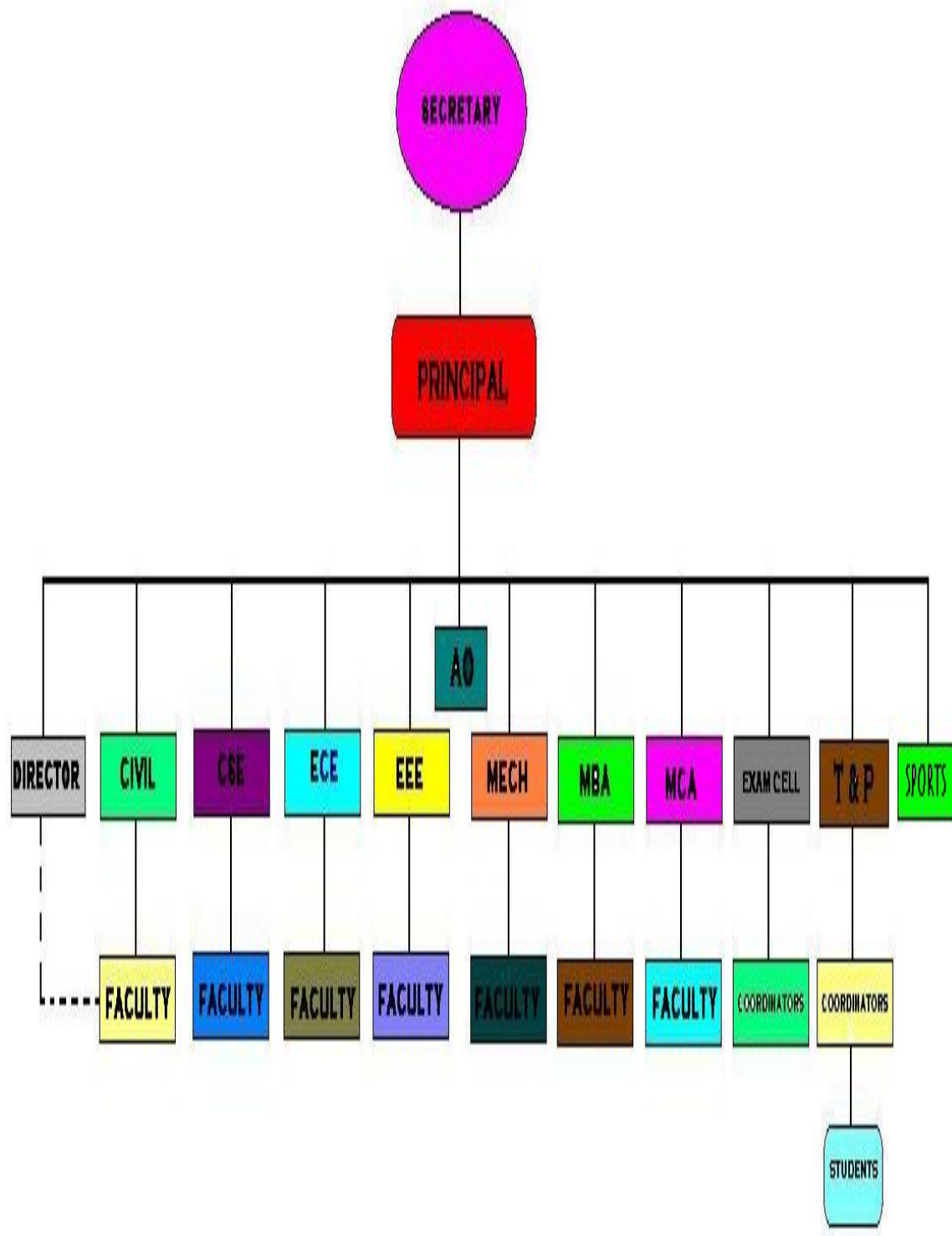
**Long term goals**

- \* To be a provider of quality education so as to get global recognition.
- \* To attain the status of deemed university.
- \* Introduce various professional programs in collaboration with global institutions of repute.
- \* To undertake nationally acknowledged R&D works by forging alliances with Research Organizations and Industries.

**Short term goals:**

- \* Strive for attracting quality faculty and provide incentives for existing faculty to acquire higher qualifications.
- \* To adopt innovative teaching methodologies to optimize the teaching learning processes to bridge the gap between theory and practice.
- \* To improve the quality of student admissions.
- \* To achieve 90% pass percentage in university examinations from the current 80%.
- \* To train students in a wide range of technical skills, managerial skills including life skills to make them industry ready.
- \* To organize life skills programs so that the students can communicate coherently, rationally and convincingly.
- \* To get NBA Accreditation for all eligible programs.
- \* To get institutional accreditation by NAAC.
- \* To attain 90% percent placements among the eligible students.
- \* To become an autonomous institution under JNTUA.
- \* To become an autonomous institution under UGC.

## Priyadarshini College of Engineering &amp; Technology





6.2.3 Describe the internal organizational structure and decision making processes.

**Decision making Process:** Policy matters are decided in the governing body which consists of the Principal, two senior staff members, nominee of JNTUA, representatives of industries, financial sector along with Management being the members.

Any requirements like equipment, text books and journals are proposed by the staff in charges of each department. All the requirements are discussed at the departmental staff meetings and proposals are sent to the Principal's office. Heads of the Departments and the Principal will finalize the proposals based on the approved budgets of each department and they are procured by calling the quotations and negotiations (instead of lowest quotation, importance is given to better quality, durability along with service facility). Students representatives of each department will represent their requirements to the concerned Head of the Department which intern will be discussed with the principal and the requirements are fulfilled.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

#### **Teaching & Learning**

The requirement of staff is assessed as per AICTE norms and appointed through the staff selection committee.

- The staff is exposed to Faculty Development Programmes
- Teachers are guided to prepare the teaching notes and method of teaching by Heads of the Departments and other senior faculty.
- All the teachers are exposed to use of OHPs and LCDs.
- Students are tuned to be more regular to the class work and prepare their subject wise notes. Students are exposed more for hands on skills through laboratory experiments and industrial visits / training / tours.

The amount of knowledge gained by the students is assessed frequently through periodical slip tests, objective tests, mid examinations and laboratory tests etc., based on the assessment the needy students are provided with additional teaching classes / bridge courses / laboratory classes etc.,

#### **Research & Development**

- Most of senior faculty are guiding research scholars and there by considerable number of research papers are being published.
- M.Tech students are groomed to produce technical papers and contribute for research activities.
- Research proposals are submitted to AICTE for funding purpose.
- R&D Lab has been established for undertaking R&D and Consultancy

#### **Community engagement**

Staff and students are actively involved in community services such as community development, Blood donation, Fund raising for natural calamities, AIDS awareness, Pulse- polio, Clean and Green, General Hygiene and contribution to academic activities etc.,



**Human resource management**

The services of staff and students are mostly programmed to utilize their services effectively within the time frame available either for academic development or research and development or community development.

**Industry interaction**

- Some of facilities in the college are shared with industry for effective industry-institute interaction..
- Consultancy services are provided to the industry
- Many a times resource persons are invited from industry and expose the students for real time projects.
- Industry personnel are involved in the committee of members of Board of Studies and their views are taken to modify the syllabus.
- Industry HR"s are contributing in enhancing additional skills required for the placements.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

- The feedback received from the students through and interactive method about the academic activities is reviewed regularly.
- The feedback received through the complaint boxes from the staff and students is recorded and updated.
- The feedback received from the parents and industries in which our institution students are employed through placements is shared with the Management regularly.
- The Feedback receive from alumni is considered while reviewing the teaching learning process.
- The existing procedures are modified according to the feedback within the flexibility provided by the university.
- Whenever required additional remarks are received from the Management to meet some of the infrastructural demands.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- \* The Management has given total academic freedom for the Principal and the Heads of the Departments in teaching learning process, adding new equipment to conduct more number of experiments.
- \* Updating computational facilities by upgrading computers and internet connectivity.
- \* Additional rooms were created for conducting tutorials and quizzes.
- \* The Management is also generous in providing funds for sports and cultural activities, incentives are given to the staff in the form of appreciation letters, up- gradation of the position etc.,

- \* Students are provided with Medals, cash awards, scholarships to the deserving partially contributing to provide value added courses like ( pre placement training programmes, extra coaching for sports, conducting workshops etc.,)
- \*● Encouragement to the faculty to undertake R&D and consultancy work.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

**Summary of resolutions made during the meeting on 15-10-2016 by the Governing Body**

Agenda 1	It is necessary to pursue the admission of 2016-17 and discussed the steps to be taken for 2017 admissions.
Agenda 2	The academic performance of the college has been analyzed by the members and suggested steps to improve results for the coming semesters
Agenda 3	The committee discussed the facilities provided to the students like upgradation of transfer facility, water, digital library, and etc., and suggested the steps to be followed.
Agenda 4	Committee discussed renovation and updation of all laboratories of EEE, CSE, and ECE departments and also suggested to the exilcute the work of installation of civil engineering and mechanical engineering labs in warfooting.
Agenda 5	It is discussed to iprove the plantation in the campus and steps to be taken accordingly.
Agenda 6	The governing body suggested the steps to be followed for lateral entry admissions
Agenda 7	The governing body highlited the importance of digital class rooms and recommended to increase the digital classrooms as many as use.

**Copy of the Governing body minutes of meeting enclosed as Appendix-**

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. The institute planning to apply for autonomy under affiliating university.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

- Most of the Grievances are understood through the feedback given by the staff, students, industries and parents. All the grievances concerned during the academics are discussed with the concerned Heads of the Departments and resolved at the earliest.
- The grievances concerned to the policy matters are discussed with the Management and they are addressed immediately, if the nature of grievance is not

involved with any financial commitment.

- If the grievances are involved with financial commitment they are addressed in installments / steps by the management committee.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute ? Provide details on the issues and decisions of the courts on these? -No-

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes,

- The students feedback concerned to academic activities are discussed and resolved in the College Academic Committee meeting.
- If the feedback is concerned to the extracurricular activities or transport facilities, campus cleanliness and hygiene or canteen facilities or security they are resolved after discussing with the concerned committees.

**6.3 Faculty Empowerment Strategies**

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- The newly appointed staff is exposed to interact with the senior staff and Heads of the Department frequently in preparing the lesson plans, teaching notes, teaching methodology and class room control etc.,
- Heads of the Departments will provide transparencies and CDs to provide the teaching notes effectively by using OHPs and LCDs.
- Faculty makes use of NPTEL video lectures prepared by IIT experts to improve teaching learning process.
- The teaching staff is permitted to attend faculty development programmes conducted within the college and outside the college.
- Incentives are given to staff members to enhance their professional knowledge by presenting and publishing the papers in national and international conference/journals.
- Non teaching staff is guided by the senior staff in the upkeep of the laboratories and handling the equipment.
- Skill development programs are conducted for Non teaching staff to update their technical knowledge.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- All the staff is encouraged to attend seminars and workshops and keep in touch with latest theories and concepts on their subjects.
- Staff is permitted to attend faculty development programmes conducted at different institutions
- Incentives are given to the staff to publish papers.
- Staff is permitted to go for QIPs
- 

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- An effectively designed staff appraisal system is in practice.
- Performance Appraisal form comprises of multiple activities concerned to academic achievements and over all performances.
- Based on the performance appraisal the staff is given incentives and increments.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- Based on the Performance Appraisal staff is given increments and in some

cases additional monetary benefits are provided to the deserving candidates.

- For some of the staff their positions are elevated.
- For certain achievements appreciation letters are given.
- The achievements are announced to the concerned staff through letters or in appropriate meetings

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- \* EPF to all the staff members
- \* Medical facility at the institute
- \* Subsidized transport to all

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- In the case of eminent faculty, the institution relaxes qualification norms of AICTE / University
- Eminent faculty are elevated in their positions by relaxing academic
- qualifications Out of turn increments are given to the staff who have acquired higher / additional qualifications

## **6.4 Financial Management and Resource Mobilization**

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Every department will prepare the advance budget required for the next academic year in terms of obtaining lab equipment, laboratory facilities and infrastructure and up-gradation of computational systems.
- The budget received from various departments is consolidated and normalized based.
- Department are encouraged to obtain grants through MODROBS, consultancies, RPS, Seminar/workshop grants from AICTE,UGC etc.
- While utilizing the funds the expenditure involved in procuring the equipment is collectively negotiated by a committee consisting of Chairman/ Principal, Head of the Department, Administrative Officer and faculty in-charge for the Laboratory.
- Staff is also instructed to make use of the equipment for more number of batches within the college time frame work.
- Staff is also instructed to make use of the equipment for more number of batches within the college time frame work.
- Inter department coordination is encouraged for the effective usage of lab equipment, seminar halls etc.,
- The Department operating cost[DOC] per student 500 rupees sanctioned in the budget for the laboratories maintenance and purchases related to departmental

aspects

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The income and expenditure of the institution is audited by „MRK Reddy Chartered Accountants“, which is fully external auditing system. There are not major audit objections. For certain minor expenses accounts department will itself act as internal Auditing system

The audit reports for the last three years are enclosed as **Annexure-II**

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

This institution has not experienced with any financial deficit during the last 4 years.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Not applicable.

The Institution is able to run within the funds available.

## **6.5 Internal Quality Assurance System (IQAS)**

### **6.5.1 Internal Quality Assurance Cell (IQAC)**

a.Has the institution established an Internal Quality Assurance Cell(IQAC)?

If ‘yes’,

what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

The institution has established an Internal Quality Assurance Cell(IQAC) on 09.10.2013.The policies of the institutional quality assurance cell are :

b.How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

Not Applicable

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Not Applicable

- d. How do students and alumni contribute to the effective functioning of the IQAC?

Not Applicable

- e. How does the IQAC communicate and engage staff from different constituents of the institution?

Not Applicable

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Not Applicable

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Not Applicable

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

Not Applicable

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Not Applicable

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- It is an institutional mechanism that all the staff has to record the topics covered per session on each day.
- All the staff is regularly monitoring the attendance and cautioning the students whose attendance is less than 75%.
- Class Review Committee meetings are held regularly for all classes to review effectiveness of teaching learning process.
- In the tutorials the details of the number of problems worked out and the examples discussed were also recorded

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

- The quality, mission and vision policies are displayed at all the prominent places to remind the staff and students continuously. To match the quality policy and based on the latest industrial requirements the syllabi is being modified and

wherever required additional staff or infrastructure is provided.

- Program Educational Objectives and Program Objectives are displayed at prominent places in the college and included in the letters to the parents which are sent every month.
- The same is being informed to the external stakeholders mainly companies coming for recruitment, concerned university authorities, peer organizations are informed.

## **CRITERIA VII: INNOVATIONS AND BEST PRACTICES**

### **7.1 Environment Consciousness**

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities? -No-

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- \* Energy conservation
- \* Use of renewable energy
- \* Water harvesting
- \* Check dam construction
- \* Efforts for Carbon neutrality
- \* Plantation
- \* Hazardous waste management
- \* e-waste management

#### **Energy Conservation:**

All the equipment in the labs are serviced periodically to reduce excessive consumption of power. Class room power consumption is monitored. An eco-friendly generator has been set up in the campus to minimize the atmospheric pollution.

#### **Use of renewable energy:**

The college management is examining the proposal of utilizing the solar power, a nonconventional

source of energy, in a phased manner as an alternate source of power. Solar heaters are in use in the girl's hostel.

#### **Water harvesting:**

The college has five bore wells to cater to the general needs of the institution. Soak pits were also constructed at appropriate places to raise the water table.

#### **Efforts for Carbon neutrality:**

The college management has taken certain measures to prevent the emission of carbon dioxide in the campus. The motor vehicles are kept at a distance from the classrooms and Laboratories in the ear marked parking sheds. The dead leaves of the plants and the



waste paper are disposed off in the pits dug in the earth and not by burning and thus reducing atmospheric pollution. They are also used as manure for the plants.

**Plantation:**

There is abundant greenery in the campus in the form of Avenue Plantation which provides a green canopy at various places of the campus and lawns were prepared and maintained at various locations in the campus.

**e-waste management:**

Some of the e-waste generated is used for technical education purpose by making use of hardware in laboratories for display and study. The remaining material is disposed off in an appropriate manner.

**7.2 Innovations**

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- Additional coaching of subjects which are not covered under the syllabus through guest lectures or training from the outside agencies. The system proved to be beneficial and the students are able to understand more about the subject and able to score better in the examinations and achieve more placements.
- Self learning facilities are provided to the students by making them available the class notes through web site.
- NPTEL DVD are made available to the students
- The parents are informed about the regularity of their wards on day to day basis so that parents can take more care to make their daughters to attend maximum number of classes
- Majority of the students projects are guided by the faculty and executed in the institute.

The institute has a comprehensive placement Training Philosophy which is executed thro qualified staff and experts from outside.

**7.3 Best Practices**

7.3.1 Elaborate on any two best practices **as per the annexed format (see page .. )** which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

- Motivating the students to attend more number of theory classes and almost all the library sessions to gain more theoretical knowledge and hands on skill on

- every subject. Students are exposed to frequent internal tests to upkeep their study habits.
- Students are motivated to work hard for more number of hours including sports, cultural, social activities.
- Economically poor students are encouraged with fees waiver, additional scholarships, free hostel facility etc., to the deserving students.
- Library facilities are extended on Sundays and extended hours on working days.
- Key labs are made available to the students for beyond working hours.
- Topics beyond the syllabus are covered to enhance the knowledge of the students.
- Experiments beyond syllabus are also conducted in the specified laboratories.
- Merit Students are encouraged by giving cash awards.
- Mentoring of the students is given utmost priority.
- PG students are guided their projects in the institute with an aim to produced journal /conference papers.

## **PART-3**

### **Departmental Evaluation Reports**

### Evaluation Report of the Electronics & Communication Engineering Department

1. **Name of the Department:** Electronics and Communication Engineering
2. **Year of Establishment:** 2005
3. **Names of Programmes / Courses offered (UG, PG)**

The following programs are offered in the Electronics and Communication Engineering department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering  <b>Discipline:</b> Electronics and Communication Engineering	2005	2005-06	60
			2006-07	120
			2013-14	180
2	<b>Degree:</b> Master of Technology <b>Discipline:</b> Digital Electronics and Communication Systems	2012	2012-13	18

4. **Name of Interdisciplinary courses and departments involved:**

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

B.E -Electronics and Communication Engineering				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	I/I	15A52101	Functional English	H&S
2	I/I	15A54101	Mathematics-1	H&S
3	I/I	15A05101	Computer Programming	CSE

4	I/I	15A01101	Environmental Studies	H&S
5	I/II	15A52201	English for professional communication	H&S
6	I/II	15A54201	Mathematics-2	H&S
7	I/II	15A03101	Engineering Drawing	Mechanical
8	II/I	15A54301	Mathematics-3	H&S
9	II/I	15A02306	Electrical Technology	EEE
10	II/II	15A54401	Mathematics-4	H&S
11	II/II	15A05201	Data Structures	CSE
12	II/II	15A02303	Control Systems Engineering	EEE
13	III/I	13A02402	Control Systems Engineering	EEE
14	III/I	13A05401	Computer Organization & Architecture	CSE
15	III/II	13A52501	Managerial Economics & Financial Analysis	MBA
16	IV/I	13A52601	Management Science	MBA

**5. Annual/ semester/choice based credit system (programme wise):**

The UG Program follow the Jawaharlal Nehru Technological University Anantapuramu (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	Electronics and Communication Engineering	semester
2	M.Tech	Digital Electronics and Communication Systems	semester

**6. Participation of the department in the courses offered by other departments:**

The Department of Electronics and Communication Engineering is participating in courses offered by other departments are:

S.No	Semester	Course Code	Course Name	To Department
1	II/I	15A04301	Electronics Devices & Circuits	EEE
2	II/I	15A99301	Basic Electrical & Electrons Engineering	CSE
3	II/II	15A04409	Analog Electronics Circuits	EEE

4	II/II	15A04407	Microprocessors & Interfacing	CSE
5	II/II	15A04408	Microprocessors & Interfacing lab	CSE
6	II/II	15A99301	Basic Electrical & Electrons Engineering	MECH
7	III/I	13A04508	Linear & Digital IC Applications	EEE
8	III/I	13A04507	Microprocessors & Interfacing	CSE
9	IV/I	13A02702	Digital Signal Processing	EEE
10	IV/I	13A04605	Microprocessors & Microcontrollers lab	EEE
11	III/II	13A04601	Microprocessors & Microcontrollers	EEE

7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL

8. Details of courses/programmes discontinued(if any) with reasons : NIL

9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).

Teaching Post	Under Graduate	
	Sanctioned	Filled
Professor	5	5
Associate Professor	9	9
Assistant Professor	25	25

Teaching Posts	MALE	FEMALE
Professor	4	1
Associate Professor	6	3
Assistant Professor	22	3

10. Faculty profile with name, qualification, designation, specialization (D.Sc. /D.Litt. /Ph.D./M.Phil., etc.)

Faculty profile is as mentioned in the table below:

S.No	Name	Specialization	Qualification	Designation	Experience(years)	No. of Ph.D. students guided(last 4 years)
1	M.L.N.Charyulu	Microwave and	ME,( Ph.D)	Assoc. Professor	21	-

		radar VLSI				
2	Dr. Manonmani	Signal processing	Ph.D	Professor	16	2
3	Dr. Sunitha Mani	Image Processing	Ph.D	Professor	14	-
4	Dr. C.Raja	Communi cations	Ph.D	Professor	11	-
5	Dr.Dasarathan	Communi cations	Ph.D	Assoc. Professor	7	6
6	Dr. Nandagopal	Microwav es	Ph.D	Professor	10	-
7	Dr. Murali Babu	VLSI	Ph.D	Professor	12	-
8	G.Suresh	VLSI System Design	M.Tech	Assoc.Pr ofessor	14	-
9	A.Pavani	VLSI System Design	M.Tech(Ph .D)	Assoc.Pr ofessor	14	-
10	S.Srinivasulu	Embedded Systems	M.Tech(Ph .D)	Assoc.Pr ofessor	14	-
11	M.Bhagya Lakshmi Devi	VLSI Design	M.Tech	Assoc.Pr ofessor	13	-
12	A.Surendra Reddy	DSCE	M.Tech(Ph .D)	Assoc.Pr ofessor	15	-
13	A.Venkata Lakshmi	DSCE	M.Tech	Assoc.Pr ofessor	18	-
14	P.Madhavi	VLSI Design	M.Tech	Assoc. Professor	10	-
15	I.Srinivasula Reddy	Digital Communi cations Systems	M.Tech	Asst. Professor	7	-
16	Y.Mallikarjuna Reddy	Embedded Systems	M.Tech	Asst. Professor	12	-
17	K.Chandra Sekhar	VLSI Design	M.E	Asst. Professor	8.5	-
18	T.Chaithanya	Embedded Systems	M.Tech	Asst. Professor	4	-
19	SK.Arif	DSCE	M.Tech	Asst. Professor	2	-

20	S.Harikrishna	DSCE	M.Tech	Asst. Professor	1	-
21	P.Janaki	DECS	M.Tech	Asst. Professor	2	-
22	M.Venkatesh	DECS	M.Tech	Asst. Professor	2	-
23	S.Venkatesh	DSCE	M.Tech	Asst. Professor	2	-
24	SK.Samad	DSCE	M.Tech	Asst. Professor	2	-
25	P.Subramanyam	DSCE	M.Tech	Asst. Professor	2	-
26	R.Sujatha	DSCE	M.Tech	Asst. Professor	2	-
27	R.Thilak	Embedded Syatems	M.Tech	Asst. Professor	2	-
28	N.Vinay Kumar	DSCE	M.Tech	Asst. Professor	1	-
29	K.V.Gowtham	DSCE	M.Tech	Asst. Professor	1	-
30	S.Madhuri	DSCE	M.Tech	Asst. Professor	1	-
31	N.Subramanyam	DSCE	M.Tech	Asst. Professor	1	-
32	G.Swapnika	DECS	M.Tech	Asst. Professor	1	-
33	K.Sukumar	DECS	M.Tech	Asst. Professor	1	-
34	V.R.M.Prathyush	DECS	M.Tech	Asst. Professor	1	-
35	P.Bhaghath	DECS	M.Tech	Asst. Professor	1	-
36	V.Siva Kumar	VLSI Design	M.Tech	Asst. Professor	3	-
37	N.Brahmaiah	VLSI Design	M.Tech	Asst. Professor	1	-
38	N.Siva Kumar	VLSI & Embedded System design	M.Tech	Asst. Professor	1	-
39	S.Raj Kumar	VLSI & Embedded System design	M.Tech	Asst. Professor	1	-

#### 11. List of senior visiting faculty: NIL



**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL**

**13. Student Teacher Ratio(Programme-wise):** Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	U G B.Tech - Electronics and Communication Engineering	2016-17	540	36	15:1
2		2015-16	480	32	15:1
3		2014-15	420	28	15:1
4		2013-14	360	24	15:1
5		2012-13	360	24	15:1
1	P G M.Tech - Digital lectronics and Communication Systems	2016-17	36	3	12:1
2		2015-16	36	3	12:1
3		2014-15	36	3	12:1
4		2013-14	36	3	12:1
5		2012-13	18	2	12:1

**14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	2	2
Lab Instructors	10	10
Assistants	1	1

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

S.No	Name	Specialization	Qualification
1	M.L.N.Charyulu	Microwave and radar VLSI	ME,( Ph.D)
2	Dr. Manonmani	Signal procesing	Ph.D
3	Dr. Sunitha Mani	Image Processing	Ph.D
4	Dr. C.Raja	Communications	Ph.D
5	Dr.Dasarathan	Communications	Ph.D
6	Dr. Nandagopal	Microwaves	Ph.D

7	Dr. Murali Babu	VLSI	Ph.D
8	G.Suresh	VLSI System Design	M.Tech
9	A.Pavani	VLSI System Design	M.Tech(Ph.D)
10	S.Srinivasulu	Embedded Systems	M.Tech(Ph.D)
11	P.Madhavi	VLSI Design	M.Tech
12	M.Bhagya Lakshmi Devi	VLSI Design	M.Tech
13	A.Surendra Reddy	DSCE	M.Tech(Ph.D)
14	A.Venkata Lakshmi	DSCE	M.Tech
15	I.Srinivasula Reddy	Digital Communication Engineering	M.Tech
16	Y.Mallikarjuna Reddy	Embedded Systems	M.Tech
17	K.Chandra Sekhar	VLSI Design	M.E
18	T.Chaithanya	Embedded Systems	M.Tech
19	SK.Arif	DSCE	M.Tech
20	S.Harikrishna	DSCE	M.Tech
21	P.Janaki	DECS	M.Tech
22	M.Venkatesh	DECS	M.Tech
23	S.Venkatesh	DSCE	M.Tech
24	SK.Samad	DSCE	M.Tech
25	P.Subramanyam	DSCE	M.Tech
26	R.Sujatha	DSCE	M.Tech
27	R.Thilak	Embedded Syatems	M.Tech
28	N.Vinay Kumar	DSCE	M.Tech
29	K.V.Gowtham	DSCE	M.Tech
30	S.Madhuri	DSCE	M.Tech
31	N.Subramanyam	DSCE	M.Tech
32	G.Swapnika	DECS	M.Tech

33	K.Sukumar	DECS	M.Tech
34	V.R.M.Prathyush	DECS	M.Tech
35	P.Bhagath	DECS	M.Tech
36	V.Siva Kumar	VLSI Design	M.Tech
37	N.Brahmaiah	VLSI Design	M.Tech
38	N.Siva Kumar	VLSI & Embedded System design	M.Tech
39	S.Raj Kumar	VLSI & Embedded System design	M.Tech

**16. Number of faculty with ongoing projects from**

**a) National:** Nil

**b) International funding:** Nil

**17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received.** NIL

**18. Research Centre/facility recognized by the University :**

The department had established centre for excellence in the year of 2015-16

Which contains the sophisticated area and also a research team from the department the team members are

Sno	Name	Designation
1	Dr.SK mahaboob Basha	Professor
2	M.L.N Charyulu	Assoc.Professor
3	A.pavani	Assoc.professor
4	S.sreenivasulu	Assoc.professor

**Resoureces**

Systems -20

Wi-Fi speed 22 Mbps

IEEE Journals: 05

## 19. Publications:

S.No	Name of the Faculty	No. of Publications
1	M.L.N.Charyulu	15
2	Dr. Manonmani	12
3	Dr. Sunitha Mani	5
4	Dr. C.Raja	5
5	Dr.Dasarathan	10
6	Dr. Nandagopal	8
7	Dr. Murali Babu	9
8	G.Suresh	7
9	A.Pavani	10
10	S.Srinivasulu	11
11	P.Madhavi	3
12	M.Bhagya Lakshmi Devi	3
13	A.Surendra Reddy	4
14	A.Venka Lakshmi	2
15	I.Srinivasula Reddy	2
16	Y.Mallikarjuna Reddy	3
17	K.Chandra Sekhar	5
18	T.Chaithanya	1
19	SK.Arif	1
20	S.Harikrishna	1
21	P.Janaki	1
22	M.Venkatesh	1
23	S.Venkatesh	1
24	SK.Samad	2
25	P.Subramanyam	1
26	R.Sujatha	1
27	R.Thilak	1
28	N.Vinay Kumar	1
29	K.V.Gowtham	3
30	S.Madhuri	1
31	N.Subramanyam	1
32	G.Swapnika	1
33	K.Sukumar	1
34	V.R.M.Prathyush	3
35	P.Bhaghath	2
36	V.Siva Kumar	2
37	N.Brahmaiah	1
38	N.Siva Kumar	1
39	S.Raj Kumar	1

- Number of papers published in peer reviewed journals (national/international) by faculty and students.

Total No. of papers published in International Journal: 104

Total No. of papers published in National Journal: NIL

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)**

- **Monographs** 02
- **Chapter in Books** NIL
- **Books Edited** NIL
- **Books with ISBN/ISSN numbers with details of publishers** NIL
- **Citation Index** NIL
- **SNIP** NIL
- **SJR** NIL
- **Impact factor** 0.5-1
- **h-index** NIL

**20. Areas of consultancy and income generated: NIL**

**21. Faculty as members in**

a) **National committees: NIL**

b) **International Committees : NIL**

**22. Student projects:**

A) Percentage of students who have done in-house projects including inter-Departmental/Programming:100%

S NO	Academic Year	No of In-House Projects
1	2015-16	15
2	2014-15	12
3	2013-14	15
4	2012-13	10

B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: 30%

**23. Awards / recognitions received by faculty and students:Nil**

**24. List of eminent academicians and scientists/visitors to the department :**

S. No	Discipline	Topic	Expert with company and designation	Academic Year	Dates
1	Electronics and Communication Engineering	Recent trends in wireless communication	Dr.G.Harinath Reddy,Professor,N BKR IST,vidya Nagar	2016-2017	31-12-2016
2	Electronics and Communication	Fiberoptic & Wireless	Mr.V.Ravi General manager,	2015-2016	16-03-2016

	n Engineering	Communicatio n Systems	BSNL,Nellore		
3	Electronics and Communicatio n Engineering	CAD/CAM Tools	Dr.K.V.Ramanaiah, Professor, YSR Engg College Of Yogi Vemana University Proddutur		29-07-2015
4	Electronics and Communicatio n Engineering	Radar Signal Processing	Dr S. Varadarajan SV University Tirupati		22-02-2014
5	Electronics and Communicatio n Engineering	VLSI Design	Dr.K.V.Ramanaiah, Professor, YSR Engg College Of Yogi Vemana University Proddutur	2013-2014	13-08-2013
6	Electronics and Communicatio n Engineering	4G Technology	Dr.S.Satyanarayana, Professor ,RGM College Of Engineering & Tech, Nandyala	2012-2013	15-04-2013
7	Electronics and Communicatio n Engineering	Recent trends in wireless communication	G.Gopi,General manager,BSNL,Nellore		2-08-2012
8	Electronics and Communicatio n Engineering	Wireless LTE Technology	Dr. G.Nagireddy N.B.K.R.I.S.T Vidyanaagar	2011-2012	21/04/2012
9	Electronics and Communicatio n Engineering	Signal Processing	Dr.K.Nagi Reddy Professor, NBKR IST,vidya Nagar		15/6/2011

## 25. Seminars/Conferences/Workshops organized and the source of funding

S. N O	Name Of The Resource Person	Area Of The Topic	Title	Academic Year	Date	Funding Agency
1.	P.Vikas Reddy	PCB Design& Fabrication	PCB Design & Fabrication	2016-2017	23-02-17	Priyadarshni College of Engineering & Technology
2	G.sailaja	Image processing	Segmentation of the image		23-11-16	Priyadarshni College of Engineering &

						Technology
3	B.saroja	communicati ons	Emergeing trends on communicati ons	2015- 2016	25-04-16	Priyadarshni College of Engineering & Technology
4	A.venu	Embedded systems	Eminenet trends in embedded systems		2-12-2015	Priyadarshni College of Engineering & Technology
5	J.Ravikumar	electronics	Quest2k17	2014- 2015	20-02-15	Priyadarshni College of Engineering & Technology
6.	Dr S. Varadarajan	Signal Processing	Signal Processing in Radar Applications		03-11-14	Priyadarshni College of Engineering & Technology
7.	Adarsh	Robotics	Robospices	2013- 2014	06-03-14	Priyadarshni College of Engineering & Technology
8	Dr.Usha eswaran	Image processing	Segmentation of the image		23-10-13	Priyadarshni College of Engineering & Technology
9	Dr.G.pullaiah	communicati on	Emergeing trends on communicati ons	2012- 2013	25-04-13	Priyadarshni College of Engineering & Technology
10	C.gangaiah	Embedded systems	Eminenet trends in embedded systems		2-11-2012	Priyadarshni College of Engineering & Technology
11 .	Nagireddy	Image Processing	Image Processing&I ts	2011- 2012	16-03-12	Priyadarshni College of Engineering &

			Applications			Technology
12	M.Z.I Sajid	Digital Electronics	Recent Advancements in digital electronics		10-9-11	Priyadarshni College of Engineering & Technology
13	A.Siril Raj	VLSI Design	Deep Sub-Micron Process and its applications	2010-2011	12-04-11	Priyadarshni College of Engineering & Technology
14	D.Sushma	Electronic Circuit Analysis	Cascade and Cascode amplifier		13-10-10	Priyadarshni College of Engineering & Technology
15	J.Prasad Babu	Electronic Circuit Analysis	Recent Trends in Electronic Circuit Design	2009-2010	30-04-10	Priyadarshni College of Engineering & Technology
16	Ch.Srinivasa Rao	Antennas and Wave Propagation	Design of Antenna Arrays		27-09-09	Priyadarshni College of Engineering & Technology
17	Mastanaiah	Embedded System Design	ARM-9	2008-2009	30-2-2009	Priyadarshni College of Engineering & Technology
18	Mastanaiah	MATLAB	MATLAB PROGRAMMING		23-12-2008	Priyadarshni College of Engineering & Technology

**26. Student profile programme/ course wise:**

UG: Total intake is: 180

PG: Total intake is: 18



Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
B.TECH (ECE)	2016-17	Admission through APSCHE	40	36	As per APSCHE norms
	2015-16		44	90	
	2014-15		12	24	
	2013-14		34	92	
M.TECH (DECS)	2016-17	Admission through APSCHE	0	2	As per APSCHE norms
	2015-16		0	0	
	2014-15		10	6	
	2013-14		6	2	

**27. Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech Electronics and Communication Engineering	2016-17	NIL	100%	NIL	NIL
	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL
M.Tech Digital Electronics and Communication Systems	2016-17	NIL	100%	NIL	NIL
	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

EAXM	2015-16	2014-15	2013-14	2012-13	2011-12
GATE	-	3	2	2	2
CIVIL SERVICES	1	-	-	-	-

**29. Student progression:**

Student Progression		No.of Students				
		2015-16	2014-15	2013-14	2012-13	2011-12
UG-PG		42	36	27	26	25
PG-Ph.D		-	-	01	-	03
Ph.D-Post Doctorate		-	-	-	-	-
Employed	Campus	9	12	8	6	15
	Other than campus	35	38	29	20	30
Self employment		46	38	33	45	25

### 30. Details of Infrastructural facilities

#### a) Library:

- Total No. of Volumes: 52
- Journals: 10
- Reports: NIL
- News Letters: 03
- Syllabus: JNTUA
- Question papers: AVAILABLE

#### b) Internet facilities for staff and students:

The college has Internet connectivity of 22 Mbps .Further they have access to close to over 36 computers in different labs and exclusive labs for UG&PG programs in Electronics and Communication Department.

#### c) Class rooms with ICT facility: 10

There are 10 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
MB LH102	II ECE-C	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
MB LH103	II ECE-B	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
MB LH303	II ECE-A	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans

SB LH403	III ECE	EXCLUSIVE	90	Black Board,Adequate number of Lights & Fans
SB LH401	IV ECE-A	EXCLUSIVE	90	Black Board,Adequate number of Lights & Fans
SB LH402	IV ECE-B	EXCLUSIVE	90	Black Board,Adequate number of Lights & Fans

d) **Laboratories:**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	Electronics Devices & Circuits	SHARED	Lab benches-22 CROs-22 Function generators-12 RPSs-19 Analog meters-13 Stabilizer-01
2	Pulse & Digital Circuits	Shared	Lab benches-12 CROs-10 Function generators-10 RPSs-10 Multimeters-5 Stabilizer-01
3	Analog and Digital Communications	Shared	Lab benches- 08 CROs- 10 Function generators-05 RPSs-04 Stabilizer-01
4	Microwave and optical Communications	Shared	Lab benches- 08 CROs- 05 Function generators-05 RPSs-02 Microwave bench setup-05
5	Digital Signal Processing	Shared	Systems- 36 Softwares MATLAB CCS TMS 320 C 6713 kits-5
6	Microprocessors	Exclusive	Lab benches-06 Microprocessor 8086 kits-08 Microcontroller 8051 kits-02

			CROs- 02
7	ECAD	Exclusive	Systems- 32 Softwares MULTISIM XILINX CPLD/FPGA kits-02
8	VLSI	Shared	Lab benches-06 Processor kits-06 Stabilizer-01

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	70	45	Nil	Nil	Nil
2	2013-14	68	43	Nil	Nil	Nil
3	2014-15	62	34	Nil	Nil	Nil
4	2015-16	52	54	Nil	Nil	Nil

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

S.No	Topic	Academic Year	Date	Guest name / Resource person
1	Splicing Techniques of Optical Fiber Cables	2016-2017	24-02-17	Narasa Rao & Karthik
2	Low Temperature, Low Pressure Cell to Cell Bonding		25-01-17	Tamal Ghosh
3	Fast Computation of Water Filling Algorithms		09-10-16	N.Kalpana
4	VHDL Programming concepts		08-07-16	P.Anil Kumar
5	Industrial Automation	2015-2016	20-04-16	Madhukar
6	PCB Design & Fabrication		23-01-16	P.Vikas Reddy

7	Electrostatic Fields		25-10-15	P.Sreenivasulu
8	4G Technology		18-07-15	Dr.G.Jagadeeswar Reddy
9	Scaling Techniques		20-06-15	Dr.Sudhakar Reddy
10	Data Hiding	2014-2015	10-05-15	Dr. K.V.Ramanaiah
11	PID Controller		05-03-15	Dr. Siva Sankar Reddy
12	Signal Processing in Radar Applications		07-02-15	Dr.P.Gopal Reddy
13	Image Enhancement in Bio-Medical Engineering		03-12-14	Dr S. Varadarajan
14	Wavelets Used in Signal Processing		05-09-14	Dr. Anuradha
15	Use of Transmission Lines in Cables		10-07-14	Dr.Ramasri
16	ARM Processor	2013-2014	15-05-14	Dr.Rama Naidu
17	Networking Concepts		10-03-14	M.Lavanya Latha
18	Robospices		6-01-14	N.Krishna Chaitanya
19	Applications of Image Transforms		06-11-13	Adarsh
20	MAC Protocol for Sensor Networks		10-09-13	K.Rajani
21	Routing Algorithms for Adhoc Networks		15-07-13	R.Lavanya
22	Dipole Antennas Used Under Sea for Communication	2012-2013	10-04-13	C.Subhaskar Reddy
23	Wave Guide Components		25-03-	G. Kameswari

			2013	
24	Image Processing&Its Applications		28-01-13	G.Pradeep
25	Filter Design Techniques		16-12-12	Nagireddy
26	CMOS Transmission Gates and their applications		07-08-12	SK Nasar
27	EM Wave Characteristics		11-06-12	P.Venkateswarlu
28	Interrupts and their processing	2011-2012	02-04-12	SK Mahaboob Basha
29	Wavelet Based Image Denoising Algorithms		30-01-12	Dr.G. Chenchu Krishnaiah
30	Recent Advancements in digital electronics		14-12-11	Dr. K.V.Ramanaiah
31	Emerging Trends in Communication Systems		10-09-11	M.Z.I Sajid
32	RTOS Concepts and their significance		14-08-11	Dr.G.Chenchu Krishnaiah
33	Adaptive Power Reduction Methods		03-06-11	G.Gnanapriya
34	Recent Developments in Radar Technology	2010-2011	07-04-11	D.Chandra Sekhar
35	Latest Trends in Image Denoising		13-02-11	Dr.K.V.Ramanaiah
36	Deep Sub-Micron Process and its applications		21-01-11	A.Siril Raj
37	Fiber Losses		12-11-10	N.Subbarao
38	Digital IC Power Gating		07-09-10	SK Jabeena
39	Multi-Vibrators		09-08-10	K.Rajyalakshmi
40	Recent Innovations in microprocessor technology		28-06-10	SK.M.Shahina

41	Feedback Amplifiers	2009-2010	28-06-10	P.Prathima
42	Cascade and Cascode amplifier		12-06-10	D.Sushma
43	Hardware Layout Design		13-5-10	P.Venkateswarlu
44	K-map and its Applications		02-04-10	M.Sarvani
45	Dipole Antennas		12-03-10	SK.Shabeena
46	HandOff and Its Significance		01-02-10	SK.Jakeer
47	Noise Reduction Techniques in Communication Medium		25-12-09	SK Mahaboob Basha
48	Recent Trends in Electronic Circuit Design		07-09-09	J.Prasad Babu
49	Image Enhancement Techniques		30-08-09	SK Umar Faruq
50	CMOS Design Process		07-06-09	D. Chandra Sekhar

### Industrial Visit: 03

#### 33. Teaching methods adopted to improve student learning:

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities NIL

**35. SWOC analysis of the department and Future plans****Strengths:**

- Wide ranging and multidisciplinary research
- Teams able to implement test environments
- Strong progression expertise and systemic thinking
- Good industry cooperation and networks, good ability to respond to new research needs
- One Centre of brilliance, one Strategic Centre for Science, Technology and Innovation and a number of doctoral programmes in the field.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs
- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes
- Research fields trimmed based on performance indicators



## Evaluation Report of the Computer Science & Engineering Department

1. **Name of the Department:** Computer Science & Engineering
2. **Year of Establishment:** 2005
3. **Names of Programmes / Courses offered (UG, PG)**

The following programs are offered in the **Computer Science & Engineering** department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering  <b>Discipline:</b> <b>Computer Science &amp; Engineering</b>	2005	2005-06	60
			2006-07	120
			2013-14	180
2	<b>Degree:</b> Master of Technology <b>Discipline:</b> <b>Computer Science &amp; Engineering</b>	2013	2012-13	18

### 4. Name of Interdisciplinary courses and departments involved:

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

B.E – Computer Science & Engineering				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	I-I	15A51101	Engineering Chemistry	H&S
2	I-I	15A56101	Engineering Physics	H&S
3	I-I	15A52101	Functional English	H&S
4	II-I	15A54401	Probability and Stastics	H&S
5	II-I	15A54101	M-1	H&S
6	II-I	15A52301	Managerial Economics and Financial Analysis	MBA

7	II-II	15A54301	M-II	H&S
8	II-II	15A99301	Basic Electrical and Electronics Engineering	ECE
9	II-II	15A54301	Mathematics III	H&S
10	II-II	15A04407	Microprocessors & Interfacing	ECE
11	IV-I	13A52702	Management Science	MBA

**5. Annual/ semester/choice based credit system (programmewise):**

The UG Program follow the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	<b>Computer Science &amp; Engineering</b>	semester
2	M.Tech	<b>Computer Science &amp; Engineering</b>	semester

**6. Participation of the department in the courses offered by other departments:**

The Department of **Computer Science & Engineering** is participating in courses offered by other departments are:

S.No	Semester	Course Code	Course Name	To Department
1	I-I	15A05101	'C' Programming	EEE,ECE,CIVIL,MECH
2	II-II	15A05402	Computer Organization	ECE
3	II-II		Operating System	ECE,EEE
4	II-II	15A05403	Java	ECE,EEE
5	II-II	15A05201	Data Structures	ECE,EEE
6	III-I	13A05302	Computer Networks	ECE
7	IV-II	13A04806	Linux Programming & Scripting	ECE

7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL

8. Details of courses/programmes discontinued(if any) with reasons :- NIL

9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).

Teaching Post	Under Graduate	
	Sanctioned	Filled
Professor	5	5
Associate Professor	9	9
Assistant Professor	25	25

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)

Faculty profile is as mentioned in the table below:

S.No.	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Prof. D.Srinivasulu	CSE	M.Tech	Professor	22	--
2	Dr.Pavan kumar	CSE	PhD	Professor	10	--
3	Dr Vijaya Raja	CSE	PhD	Professor	11	1
4	Dr Venkatesan	CSE	PhD	Professor	10	1
5	Dr Devabalan	CSE	PhD	Professor	10	1
6	Dr K P Kaliya Murthy	CSE	PhD	Professor	11	1
7	Mr.D.Venkata subbaiah	CSE	M.Tech	Associate Professor	13	--
8	Ms.G. Manjula	CSE	M.Tech	Associate Professor	8	--
9	Mr.D.Pramodh Krishna	CSE	M.Tech	Associate Professor	10	--

10	Mr.A.Ravi	CSE	M.Tech	Associate Professor	9	--
11	Mr.G.Yedukondalu	CSE	M.Tech	Associate Professor	8	--
12	Ms.SK.Sofia	CSE	M.Tech	Associate Professor	4	--
13	Mr.V.V.Krishna reddy	CSE	M.Tech	Associate Professor	4	--
14	Ms.B.Rajini	CSE	M.Tech	Associate Professor	10	--
15	Ms.T.Srujana	CSE	M.Tech	Asst Professor	4	--
16	Ms.G.Sailakshmi prasana	CSE	M.Tech	Asst Professor	3	--
17	Mr.S.V.Chiranjeevi	CSE	M.Tech	Asst Professor	7	--
18	Ms.K.Lavanya	CSE	M.Tech	Asst Professor	7	--
19	Mr.Sai harsha	CSE	M.Tech	Asst Professor	5	--
20	K.Naveen	CSE	M.Tech	Asst Professor	8	--
21	B.Koteswara Rao	CSE	M.Tech	Asst Professor	8	--
22	S.Sampoornamma	CSE	M.Tech	Asst Professor	9	--
23	A.Kokila	CSE	M.Tech	Asst Professor	8	--
24	K.Aishwarya	CSE	M.Tech	Asst Professor	4	--
25	S.Ajay Kumar	CSE	M.Tech	Asst Professor	4	--
26	Y.Saroja	CSE	M.Tech	Asst Professor	3	--
27	G Chengamma	CSE	M.Tech	Asst Professor	4	--
28	N .Vikram Kumar	CSE	M.Tech	Asst Professor	3	--
29	M. Balaraju	CSE	M.Tech	Asst Professor	3	--
30	Syed Saddam Hussain	CSE	M.Tech	Asst Professor	3	--
31	P.Ashok	CSE	M.Tech	Asst Professor	3	--

32	Y .Yethish	CSE	M.Tech	Asst Professor	4	--
33	M.Malleswari	CSE	M.Tech	Asst Professor	3	--
34	E Purnchandrarao	CSE	M.Tech	Asst Professor	3	--
35	B.Nagaraju	CSE	M.Tech	Asst Professor	3	--
36	Shaik Mahaboob Basha	CSE	M.Tech	Asst Professor	3	--
37	M Sathish	CSE	M.Tech	Asst Professor	4	--
38	D Siva Sankar	CSE	M.Tech	Asst Professor	3	--
39	P Babul Saheb	CSE	M.Tech	Asst Professor	3	--

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL

13. Student Teacher Ratio(Program me-wise):

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	U G B.Tech - <b>Computer Science &amp; Engineering</b>	2016-17	540	36	15:1
2		2015-16	540	36	15:1
3		2014-15	540	36	15:1
4		2013-14	540	36	15:1
5		2012-13	540	36	15:1
1	P G M.Tech - <b>Computer Science &amp; Engineering</b>	2016-17	36	3	12:1
2		2015-16	36	3	12:1
3		2014-15	36	3	12:1
4		2013-14	36	3	12:1

**14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	<b>Sanctioned</b>	<b>Filled</b>
Administrative staff	2	2
Lab Instructors	6	6
Assistants	1	1

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

<b>S.No.</b>	<b>Name</b>	<b>Specialization</b>	<b>Qualification</b>
1	Prof. D.Srinivasulu	CSE	M.Tech
2	Dr.Pavan kumar	CSE	PhD
3	Dr Vijaya Raja	CSE	PhD
4	Dr Venkatesan	CSE	PhD
5	Dr Devabalan	CSE	PhD
6	Dr K P Kaliya Murthy	CSE	PhD
7	Mr.D.Venkata subbaiah	CSE	M.Tech
8	Ms.G. Manjula	CSE	M.Tech
9	Mr.D.Pramodh Krishna	CSE	M.Tech
10	Mr.A.Ravi	CSE	M.Tech
11	Mr.G.Yedukondalu	CSE	M.Tech
12	Ms.SK.Sofia	CSE	M.Tech
13	Mr.V.V.Krishna reddy	CSE	M.Tech
14	Ms.B.Rajini	CSE	M.Tech
15	Ms.T.Srujana	CSE	M.Tech
16	Ms.G.Sailakshmi prasana	CSE	M.Tech
17	Mr.S.V.Chiranjeevi	CSE	M.Tech

18	Ms.K.Lavanya	CSE	M.Tech
19	Mr.Sai harsha	CSE	M.Tech
20	K.NAVEEN	CSE	M.Tech
21	B.KOTESWARA RAO	CSE	M.Tech
22	S.SAMPOORNAMMA	CSE	M.Tech
23	A.KOKILA	CSE	M.Tech
24	K.AISHWARYA	CSE	M.Tech
25	S.AJAY KUMAR	CSE	M.Tech
26	Y.SAROJA	CSE	M.Tech
27	G CHENGAMMA	CSE	M.Tech
28	N .VIKRAM KUMAR	CSE	M.Tech
29	M. BALARAJU	CSE	M.Tech
30	SYED SADDAM HUSSAIN	CSE	M.Tech
31	P.ASHOK	CSE	M.Tech
32	Y .YETHISH	CSE	M.Tech
33	M.MALLESWARI	CSE	M.Tech
34	E PURNCHANDRARAO	CSE	M.Tech
35	B.NAGARAJU	CSE	M.Tech
36	SHAIK MAHABOOB BASHA	CSE	M.Tech
37	M SATHISH	CSE	M.Tech
38	D SIVA SANKAR	CSE	M.Tech
39	P BABUL SAHEB	CSE	M.Tech

**16. Number of faculty with ongoing projects from**

**a) National: NIL**

**b) International funding: NIL**

17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received. NIL
18. Research center / facility recognized by the university: NIL
19. Publications:

S.No.	Name of the faculty	No of Publications
1	Prof. D.Srinivasulu	5
2	Dr.Pavan kumar	6
3	Dr Vijaya Raja	5
4	Dr Venkatesan	5
5	Dr Devabalan	6
6	Dr K P Kaliya Murthy	5
7	Mr.D.Venkata subbaiah	4
8	Ms.G. Manjula	4
9	Mr.D.Pramodh Krishna	6
10	Mr.A.Ravi	5
11	Mr.G.Yedukondalu	4
12	Ms.SK.Sofia	3
13	Mr.V.V.Krishna reddy	1
14	Ms.B.Rajini	3
15	Ms.T.Srujana	2
16	Ms.G.Sailakshmi prasana	1
17	Mr.S.V.Chiranjeevi	2
18	Ms.K.Lavanya	1
19	Mr.Sai harsha	1
20	K.NAVEEN	1



21	B.KOTESWARA RAO	3
22	S.SAMPOORNAMMA	1
23	A.KOKILA	1
24	K.AISHWARYA	1
25	S.AJAY KUMAR	1
26	Y.SAROJA	1
27	G CHENGAMMA	1
28	N .VIKRAM KUMAR	1
29	M. BALARAJU	1
30	SYED SADDAM HUSSAIN	1
31	P.ASHOK	1
32	Y .YETHISH	1
33	M.MALLESWARI	1
34	E PURNCHANDRARAO	1
35	B.NAGARAJU	1
36	SHAIK MAHABOOB BASHA	1
37	M SATHISH	1
38	D SIVA SANKAR	1
39	P BABUL SAHEB	1

**Number of papers published in peer reviewed journals (national/ international) by faculty and students.**

Total No. of papers published in International Journal: **91**

Total No. of papers published in National Journal: **00**

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete,**

Dare Database-International Social Sciences Directory, EBSCO host, etc.)

- **Monographs** :NIL
- **Chapter in Books** :NIL
- **Books Edited** :NIL
- **Books with ISBN/ISSN numbers with details of publishers** :04
- **Citation Index** :NIL
- **SNIP** :NIL
- **SJR** :NIL
- **Impact factor** :NIL
- **h-index** :NIL

**20. Areas of consultancy and income generated:**

S.NO	Name of the Faculty	Details of consultancy	Amount	Duration
1	D.SREENIVASULU	Provided training program on advanced java	60000	2015-16
2	D.VENKATA SUBBAIAH	Provide training on C and Data structures	40000	2014-15
3	A.RAVI	Develop the Online software for the school	50000	2014-15
4	B.RAJANI	Design the website for Priyadarshini Engg college	40000	2014-15

**21. Faculty as members in**

- c) **National committees:** -NIL
- d) **International Committees :** NIL

**22. Student projects:**

A)Percentage of students who have done in-house projects including inter-Departmental/Programming:100%

S NO	Academic Year	No of In-House Projects
1	2015-16	30
2	2014-15	31
3	2013-14	33
4	2012-13	29

B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.30%

**23. Awards / recognitions received by faculty and students:NIL**

**(a) Faculty activities/ achievements**

**a. Research publications in international journals**

S. no.	Name of the author	Title of the paper	Name of the journal and issue date
1	D SREENIVASULU	Video Jamming Control Using Delay Tolerant Milti-Hop Wireless Networks	IJSETR
2	D SREENIVASULU	Software Defined Networking With Ddos Attacks In Clod Computing	IJIT
3	G.MANJULA	Weakely Image Label Extraction Using Dataminig Techniques	IJCST
4	G.MANJULA	Dataminig Classification For High Speed Datastreams	IJRCSE
5	T.SRUJANA	Multivariate Correlation Analysis For Effective Deniel Of Service Attack	IJRCSE
6	B.RAJINI	Enhanced Dynamic Leakage Detection Scheme In Context Delivery Networks	IJRCSE
7	K.LAVANYA	Captcha-Based Passord Auththentication-Security Primitive Based On Hard Ai	IJRCSE
8	G.YEDUKONDAL	Security In Wireless Sensor Networks	IJMETMR
9	D.V.SUBBAIAH	Security In Wireless Sensor Networks Using Crypto Techniques	IJMETMR
10	D.V.SUBBAIAH	Captcha-Based Passord Auththentication-Security Primitive Based On Hard Ai Problems	IJCST
11	S.V .CHIRANJEEVI	Effective Authentication For Mobile Devices Using Cipher Block Tuning	IJMETMR

12	D PRAMODH KRISHNA	Fairness Of Packet Forwarding Strategy In Opportunisticmobile Networks	IJCST
13	D PRAMODH KRISHNA	Clustering On Large Numeric Data Sets Using Hierarchical Approach: Birch	GJCST Volume 12 Issue 12 Version 1.0 July
14	D PRAMODH KRISHNA	Performance Analysis of Extended Shadow Clustering Techniques and Binary Data Sets Using K-Means Clustering	Volume 2 Issue 8 published on 25 August 2012 of IJARCSE
15	D PRAMODH KRISHNA	Extracting Web Data Based On Partial Tree Alignment Using Fivatech	Volume 2 Issue 3 published on March 2012 of
16	Dr.P.Pavan Kumar	A structure based approach for mathematical expression retrieval. In Multi-disciplinary Trends in Artificial Intelligence,	MIWAI 2012, volume 7694 of LNCS/LNAI, Springer Berlin/ Heidelberg, 2012
17	Sk sofia	Anomaly Detection In Infracruture Service Of Cloud Computing	IJCSTT,2016
18	MS.VIJAYA	Community Based Health Service For Lexis Gap	IJCSTT,2016
19	A RAVI	A Novel approach to an efficient and reliable data hosting in multi cloud	IJARCSE,2016

**b. Research publications in conferences**

S. no.	Name of the author	Title of the paper	Name of the conferences, organizer,
1	Dr.P.Pavan Kumar	A structure based approach for mathematical expression retrieval. In Multi-disciplinary Trends in Artificial Intelligence,	MIWAI 2012, volume 7694 of LNCS/LNAI, Springer Berlin/ Heidelberg, 2012 DAR 2012, IIT Mumbai, December 2012
2	D PRAMODH KRISHNA	Presented a paper titled "Extracting web data based on partial tree alignment using Fivatech"	National conference on advanced computing and communication technologies held during February 25th, 2012 in PBR Visvodaya Institute of Technology and Science Kavali
3	D PRAMODH KRISHNA	Presented a paper titled "Autonomous self-reconfigurable of link failures in wireless mesh networks.	" International conference on Electrical Electronics and Computer Science held at Tirupati during December 20th ,2012

**24. List of eminent academicians and scientists/visitors to the department :**

S.No	Discipline	Topic	Expert with company and designation	Academic Year	Dates
1	CSE	Research Trends In Data Mining	R.Ramesh Assist Prof, VIT, Vellore.	2016-2017	22-09-2016
2	CSE	Data mining tool WEKA	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg		28-08-16
3	CSE	“BEx Web Integration in SAP	Dr. P.VENKATA KRISHNA Assoc.Prof, VIT, Vellore		11-09-16
4	CSE	AUTOMATION OF SOFTWARE TESTING	Dr. A.SURESH BABU JNTUA, ANANTAPUR.	2015-2016	21-07-15
5	CSE	Foundations of	Dr.C.H.Pradeep		01-09-
6	CSE	Research Perspectives and Challenges in Database Security and	Dr.Pavan Kumar, Central University, Hyderabad		11-02-15
7	CSE	Web programming with PHP	Dr.C.H.Pradeep Reddy, Assoc.Prof, VIT, Vellore	2014-2015	16-10-2014
8	CSE	Real World & Practical Exposure of SAP	R.Ramesh Assist Prof, VIT, Vellore.		14-8-2014
9	CSE	Data mining techniques.	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.		16-9-2014
10	CSE	Mobile adhoc networks	Dr. P.Venkata Krishna Assoc.Prof, Vit, Vellore	2013-2014	12-07-2013
11	CSE	Wireless networks	Dr. A.Suresh Babu Jntua, Anantapur.		23-09-2013
12	CSE	SQL Server integration and Reporting Service	Dr. V Suresh Babu Sreevidyanikethan Engg College, Tirupati		13-8-2013
13	CSE	Latest trends in mobile computing	Dr.Pavan Kumar, Central University, Hyderabad.	2012-2013	12-2-2013
14	CSE	Knowledge Mining Using SPSS Modeller and Weka	Dr.K Venugopal Rao Gnits, Hyderabad		12-9-2012
15	CSE	“NETWORK SIMULATION USING NS2”	J K Swapna Project Leader, Infisys, Chennai.		16-10-2012

**25. Seminars/Conferences/Workshops organized and the source of funding**  
**Seminars organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	Mr. A. Chandra, Sri vidyanikethan	Networks	Network Simulators	02-05-2015	PCET
2	Dr. R. Md. Shafi, MITS	Security	WCF Application Development	06-08-2016	PCET
3	Dr.Raj kumar, VITS	UNIX	Embedded Linux and Kernal Construction	09-09-2016	PCET
4	Dr.Manoj	Security	Seminar on Android Applications and Security	03-01-2017	PCET
<b>Academic year 2015-16</b>					
5	Dr. A.SURESH BABU JNTUA,ANANTAPUR.	Data mining	Research Trends In Data Mining	13-10-2015	PCET
6	Dr.C.H.Pradeep Reddy,Assoc.Prof,VIT,Vellore	Data mining	Data mining tool WEKA	14-8-2015	PCET
7	Dr.Pavan Kumar,Central University,Hyderabad	Data mining	“BEx Web Integration in SAP Business Intelligence	16-9-2015	PCET
8	R.Ramesh Assist Prof,VIT,Vellore.	Data mining	Foundations of Business Intelligence: Databases And Information Management	03-09-2015	PCET
9	Dr. A.SURESH BABU JNTUA,ANANTAPUR.	Data mining	Research Trends In Data Mining	13-10-2015	PCET
10	Dr.C.H.Pradeep Reddy,Assoc.Prof,VIT,Vellore	Data mining	Data mining tool WEKA	14-8-2015	PCET
<b>Academic year 2014-15</b>					
11	Dr.C.H.Pradeep Reddy,Assoc.Prof,VIT,Vellore	TESTING	AUTOMATION OF SOFTWARE TESTING	12-07-2014	PCET
12	Dr.M.N.RAO Professor& Head Swarna Andhra College Of	Networks	A Two-Day National Level FDP on “Research	23-8-2014	PCET

	Engg ,Narasapur.		Perspectives and Challenges in Database Security and Privacy”		
13	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.	Networks	Latest trends in mobile computing	12-6-2015	PCET
14	Prof. D.Jatin Das VITS	Robotics	Artificial Intelligence	06-01-2015	PCET
<b>Academic year 2013-14</b>					
15	R.Ramesh Assist Prof,VIT,Vellore.	Networks	Wireless Networks	21-07-13 TO 22-07-13	PCET,Nello re
16	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.	Networks	Wireless sensor networks	01-09-13 TO 03-09-13	PCET
17	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT,Vellore	Data mining	SQL Server &DB2	11-02-14 TO 13-02-14	PCET
18	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT,Vellore	PHP	Web programming with PHP	12-2-2014	PCET
<b>Academic year 2012-13</b>					
19	Dr. V SURESH BABU Sreevidyanikethan Engg College, Tirupati	Data mining	Data mining techniques.	12-03-13 TO 13-03-13	PCET
20	Mr. A. Srinivasulu, VITS	Cloud	Cloud Computing	09-09-2012	PCET
21	Ms. B. Padmaja, JNTUH	Data mining	Data Mining Techniques through WEKA	10-12-2013	PCET
22	Dr. V. Prasad, MITS	Networks	Advances in Information, Communication and Networking Technologies	18-05-2012	PCET

**Conferences organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	L.Karthikeya, SVCET	Security	Security using Quantum key Distribution Protocols(QKDPs)	7-8-16	PCET
2	M. Pavan Kumar, JNTUH	Clustering	Curse of dimensionality for adaptive cluster distance bounding in high dimensional indexing	5-12-16	PCET
<b>Academic year 2015-16</b>					
3	T NPrasad	Security	A Survey on DDoS detection and Sampling Techniques	17-03-2016	PCET
4	Mr. B. Narendra Kumar Rao	Networks	A Survey on Adaptive Techniques	16-09-2015	PCET
<b>Academic year 2014-15</b>					
5	V.Ramesh, Dr.P.Subbaiah	Adhoc networks	Preemptive Ad hoc On demand Multipath Distance Vector Routing for MANET	21-07-2014	PCET
6	V.Ramesh, Dr.P.Subbaiah, N.Koteswar Rao,	Routing	Scenario- based performance evaluation of AODV Routing protocol for MANET	29-11-2014	PCET
<b>Academic year 2013-14</b>					
7	P. Lakshmi Samyuktha SVEC,Tirupati	Security	A Survey report on Secured Biometric Recognition methods	20-01-2014	PCET



8	C. Bhuvana SVEC,Tirupati	Networks	A Survey on VOIP architecture and QOS for VOIP applications	05-01-2013	PCET
<b>Academic year 2012-13</b>					
9	K.Gayathri, NBKR	Networks	IP Traceback for Flooding attacks on Internet Threat Monitors (ITM) Using Entropy Variations through Honeypots	9-8-12	PCET
10	M.Kalyani, Sri venkateswara University	Web Technology	Web caching and Response Time operation based Erickson method using Program	5-03-13	PCET

**Workshops organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	K.Varshini SVEC,Tirupati	Routers	NNSC, Project Based Industrial Training on live CISCO Routers & Switches Web Security	14-01- 2016	PCET
2	Ravi.A, Malineni Lakshmaiah engineering college	Web technology	Web Security	28-11-06	PCET
<b>Academic year 2015-16</b>					
3	Dr.K Venugopal Rao GNITS,HYDERABAD	Networks	Wireless Mesh networks	11-02-16 TO 13-02-16	PCET
4	R.Ramesh Assist Prof,VIT,Vellore.	Data mining	SQL Server integration and Reporting Service	11-7-2015	PCET
<b>Academic year 2014-15</b>					

5	Mr. Himalaya Lekha, IBNC	Cloud	Big data & Hadoop	07-02-2015	PCET
6	Mr. Sainath Volam, Dr. K. R. Patil,	Networks	Ethical Hacking	07-09-2015	PCET
<b>Academic year 2013-14</b>					
7	Dr. A.SURESH BABU JNTUA, ANANTAPUR.	Data mining	Real World & Practical Exposure of SAP	12-9-2013	PCET
8	Dr. Pavan Kumar, Central University, Hyderabad.	Networks	Mobile adhoc networks	04-07-13 TO 06-07-13	PCET
<b>Academic year 2012-13</b>					
9	Dr. P. Ramesh, NBKR	Programming	Advanced Java-Spring & Hibernate	27-01-16	PCET
10	J. Swapna, IIT Madras	Cloud	Installation & Develop of Eucalyptus Open Stack & Open Nebula Ubiquitas Cloud	28-08-16	PCET

**26. Student profile programme/ course wise:**

UG: Total intake is: 540

PG: Total intake is: 36

Name of the Course	Academic Year	Application Received	Selected seats		Pass percentage
			Male	Female	
B.TECH (CSE)	2016-17	Admission through APSCHE	42	34	As per APSCHE norms
	2015-16		40	94	
	2014-15		15	27	
	2013-14		34	92	
	2012-13		0	2	
	2011-12		0	0	
M.TECH (CSE)	2016-17	Admission through APSCHE	1	2	As per APSCHE norms
	2015-16		9	5	
	2014-15		8	6	
	2013-14		7	5	

**27.Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech CSE	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL
M.Tech CSE	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

EAXM	2015-16	2014-15	2013-14	2012-13	2011-12
<b>GATE</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>4</b>	<b>4</b>
<b>CIVIL SERVICES</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>

**29. Student progression:**

Student Progression		No.of Students				
		2015-16	2014-15	2013-14	2012-13	2011-12
UG-PG		10	9	8	7	8
PG-Ph.D		NIL	NIL	NIL	NIL	NIL
Ph.D-Post Doctorate		NIL	NIL	NIL	NIL	NIL
Employed	Campus	16	21	12	24	44
	Other than campus	15	15	10	15	15
Self employment		10	12	16	11	12

**30. Details of Department level Infrastructural facilities****a) Library:**

- Total No. of Volumes: 52
- Journals: NIL
- Reports: NIL
- News Letters: NIL
- Syllabus: JNTUA
- Question papers: AVAILABLE

**b) Internet facilities for staff and students:**

The college has Internet connectivity of 22 Mbps leased line 12 (BSNL) + 10 Mbps OFC (Micronova) fibre enabled on connectivity. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 300 computers in different labs and exclusive labs for UG&PG programs in CSE Department.

**c) Class rooms with ICT facility:**

There are 11 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
North Block LH-105		EXCLUSIVE		Black Board,Adequate number of Lights & Fans
North Block LH-104		EXCLUSIVE		Black Board,Adequate number of Lights & Fans
Main Block LH-203		EXCLUSIVE		Black Board,Adequate number of Lights & Fans
Main		EXCLUSIVE		Black Board,Adequate

Block -201				number of Lights & Fans
South Block LH-301		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans
South Block LH-201		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans
MBLH202		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans
North Block LH-203		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans
North Block LH-204		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans
North Block LH-205		<b>EXCLUSIVE</b>		Black Board, Adequate number of Lights & Fans

d) **Laboratories:****LAB Infrastructure****Number of Computers with Configuration**

<b>S.NO</b>	<b>LAB NAME</b>	<b>SHARED/EXCLUSIVE</b>	<b>EQUIPED WITH</b>
<b>1</b>	Computer Lab1	<b>SHARED</b>	65 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
<b>2</b>	Computer Lab2	<b>SHARED</b>	55 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT

			Keyboard: Multimedia Mouse: Optical
3	Digital Library	SHARED	30 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
4	English Communication Lab	SHARED	60 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
5	Computer Lab3	SHARED	55 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
6	ECE Simulation Lab	SHARED	36 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
7	EEE Simulation Lab	SHARED	23 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse: Optical
8	North Block Computer Lab1	SHARED	60 Systems Processor:Pentium-4 HDD: 80GB RAM: 1GB

			Monitor:18.5 CRT Keyboard: Multimedia Mouse:Optical
<b>9</b>	North Block Computer Lab2	<b>SHARED</b>	40 Systems  Processor:Pentium-4 HDD: 80GB RAM: 1GB Monitor:18.5 CRT Keyboard: Multimedia Mouse:Optical

**Computer Student Ratio:** 1:2(For Pg Students), 1:4(For UG Students)

**Total Number of Systems:** **430**

**Licensed Software's**

**System Software's**

5. Red Hat Linux 9
6. Windows 2000 Server
7. Windows Professional
8. Fedora

**Application Software's**

4. Oracle 9i
5. Multisim
6. Visual Basic 6.0

**Application Software's(free)**

13. Mozilla Fire Fox
14. Java Kit
15. Tomcat Server
16. Weka
17. Eclips
18. Net Beans
19. Winrar
20. T-Spice
21. Adobe Redear
22. Flash Player
23. Putty
- 12.Xylinks

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	75	55	NIL	NIL	NIL
2	2013-14	72	48	NIL	NIL	NIL
3	2014-15	68	42	NIL	NIL	NIL
4	2015-16	56	56	NIL	NIL	NIL

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external expertsSpecial Lecturers Organized**

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Web programming with PHP	16-10-2015	Dr.C.H.Pradeep Reddy, Assoc.Prof, VIT ,Vellore
2	Real World & Practical Exposure of SAP	14-8-2015	R.Ramesh Assist Prof,VIT, Vellore.
3	Data mining techniques.	16-9-2015	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.
4	Mobile adhoc networks	12-07-2016	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT, Vellore
5	Wireless networks	23-09-2017	Dr. A.SURESH BABU JNTUA,ANANTAPUR.



6	SQL Server integration and Reporting Service	13-8-2016	Dr. V SURESH BABU Sreevidyanikethan Engg College, Tirupati
7	Latest trends in mobile computing	12-2-2016	Dr.Pavan Kumar,Central University,Hyderabad.
8	Knowledge Mining Using SPSS Modeller and Weka	12-9-2016	Dr.K Venugopal Rao
9	“NETWORK SIMULATION USING NS2”	11-10-2016	J K SWAPNA
10	Research trends in “Data mining”	10-11-2016	
<b>Academic Year-2015-16</b>			
11	Design and Analysis of Algorithms	10-11-2015	Dr K Jyothi, Associate Professor, Dept. of MCA, Sri Padmavathi Mahila Visva Vidyalyam
12	Distributed Systems	09-08-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
13	Computer Networks	07-9-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
14	Data Mining Concepts	02-02-2016	Dr. K. G. Srinivasa, Professor, MS Ramaiah Institute of Technology,
15	Emerging Trends in High Performance And computing	3-3-2016	Mr. B. S. Bindhu Madhava, Associate Director, C-DAC, Bangalore
16	Information Retrieval	30-03-2016	Dr. R.J. Rama Sree, Professor, Department of CSE, Rashtriya Sanskrit Vidyapeet, Tirupati
17	Data Mining Concepts	11-1-2016	Dr. RVB Subramanyam, Associate Professor, Department of CSE, NIT, Warangal

18	Career Guidance	4-4-2016	Mr. Krishna Prasanth. T, Assistant System Engineer, TCS, Mumbai
19	Software Testing	29-4-2016	K.Kalyana chakravarthy, Senior Software Engineer,CSC,Chennai
<b>Academic Year-2014-2015</b>			
20	Data mining tools	7-8-2014	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
21	Networking simulation tools	10-9-2014	Dr. K. G. Srinivasa, Professor, MS Ramaiah Institute of Technology
22	Information Retrival techniques	14-10-2014	Dr. RVB Subramanyam, Associate Professor, Department of CSE, NIT, Warangal
23	Distributed Systems	16-11-2014	Mr. M.V. Suman Kumar, Lead Engineer, R&D, Tejas Networks, Bangalore
24	Cloud computing technologies	12-12-2014	Mr. Jayaprakash Arjarapu, Principal Software Engineer, Oracle India Pvt. Ltd., Hyderabad
25	Information security	5-1-2015	Mr. Krishna Prasanth. T, Assistant System Engineer, TCS, Mumbai
26	Linux Networking	3-2-2015	Dr K Jyothi, Associate Professor, Dept. of MCA, Sri Padmavathi Mahila Visva
27	Distibuted datamining	7-3-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad

28	Software Testing tools	18-4-2015	K.Kalyana chakravarthy, Senior Software Engineer,CSC,Chennai
<b>Academic Year-2013-14</b>			
29	Information Retrieval	13-07-2013	Dr. R. Manivannan
30	Natural Language Processing	30-07-2013	Dr. B. Srinivasu
31	Artificial Intelligence And Robotics	4-8-2013	Ms. Esther Rani
32	Data Mining In Real World	31-8-2013	Ms. P.R. Anisha
33	Network Security	30-9-2013	Mrs. Y.V.SPragathi
34	Data Mining TOOLS AND TECHNIQUES	21-12-2013	Mr. Kishore C. Reddy
35	Cloud Computing	8-1-2014	Mrs. J K Swapna
36	Big data, Spatial Information Technology	24-2-2014	Mrs. Y. V. Sreevani
37	Machine Learning (AI)	25-4-2014	Mr. Rajashekara Shastry
<b>Academic Year-2012-13</b>			
38	Cloud Computing	20-7-12	Mrs. Sumayya Afreen
39	Networking, Data Mining	30-7-12	Mrs. B. Gnana Prasuna
40	Natural Language Processing	6-8-12	Prof. G V S Raju
41	Natural Language Processing	21-9-12	Mrs. M. Sowmya
42	Piezo Optics/ Communication Systems	11-11-12	Dr. Ravindharan Ethiraj
43	Digital Image Processing	8-1-13	Dr. Satya Prasad Lanka
44	Embedded System/Automation	30-1-13	Prof. A. Gopala Sharma
45	Communication and Radarengineering	8-2-13	Prof. K.N.Sahu
46	Image Processing	9-4-13	Dr. M. Kezia Joseph

### Workshops Organized

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Security using quantum key distribution protocol	8-11-2016	L.karthi keya,SVCET
2	Curse of dimensionality for adoptive cluster od distance bounding in high dimensional indexing	16-4-2017	M.Pavan kumar,JNTUH
<b>Academic Year-2015-16</b>			
3	Cloud computing in the real world	8-9-2015	Dr.p.Ramesh,SVCET
4	Clustering techniques	21-3-2016	J.Swapna,IIT madras
<b>Academic Year-2014-15</b>			
5	Routing algorithms	7-8-2014	K.Varshini
6	Data mining using weka	11-2-2015	Prof. N. Gireesh
7	Information Security tools	17-3-2015	Dr. B. Polaiah
<b>Academic Year-2013-14</b>			
8	Real world and practical exposure of SAP	12-9-13	Dr.A.Suresh Babu, JNTUA
9	Mobile adhoc network	4-7-13 to 6-7-13	Dr.Pavan kumar, Central University, Hyderabad
<b>Academic Year-2012-13</b>			
10	Advanced Java spring and hibernate	2-10-12	Dr.P.Ramesh, NBKR
11	Installation and develop of eucalyptus open stack	8-2-13	J.Swapna,IIT madras

### Seminars Organized

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Robotics and Artificial Intelligence	16-8-2016	K.Kalyana chakravarthy,

			Senior Software Engineer, CSC, Chennai
2	Data Mining Techniques through WEKA	11-12-2016	Ms. B. Padmaja, Mr. O. Obulesu
3	Advances in Information, Communication and Networking Technologies	8-2-2017	Dr. K V G Rao, GNITS, Hyderabad
4	Cloud Computing	13-4-2017	Mr. A. Srinivasulu
<b>Academic Year-2015-16</b>			
5	WCF Application Development	8-9-2015	Dr. R. Md. Shafi
6	Network Simulators	21-10-2015	Mr. A. Chandra
7	Robotics and Artificial Intelligence	20-01-2016	Prof. D.Jatin Das
8	Data Mining Techniques through WEKA	30-3-2016	Mr. O. Eswara Reddy
<b>Academic Year-2014-15</b>			
9	Web programming using PHP	7-8-2014	Mr..A.Gopala Sharma
10	Data hiding	21-9-2014	Ms.D. Devi Lavanya
11	UNIX INTERNALS	20-1-2015	Ms.ManjotKaur
12	Computer architecture	11-3-2015	Ms.T. Naga Laxmi
<b>Academic Year-2013-14</b>			
13	Wireless networks	21-7-13 to 22-7-13	P.Ramesh, VIT, Vellore
14	Wireless sensor networks	1-9-13 to 3-9-13	Dr.M.N.Rao, Andhra college
15	SQL server and DB2	11-2-14 to 13-2-14	Dr.P.Venkata Krishna
16	Web programming with PHP	12-2-14	Dr.P.Venkata Krishna
<b>Academic Year-2012-13</b>			

17	Data mining techniques through weka	10-12-12	Miss.B.Padmaja, JNTUH
18	Networks	5-1-13	DR.V. Prasad, MITS
19	Data mining	2-2-13	Dr.V.Suresh babu, Vidyanikethan
20	Cloud Computing	8-4-13	Mr.A.Srinivasulu, VITS

**Industrial Visit: 5****33. Teaching methods adopted to improve student learning:**

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

Celebrated International women's day, National festivals, NSS activities

**35. SWOC analysis of the department and Future plans****Strengths:**

- Well qualified and experienced faculty.
- Well equipped and modern laboratories.
- Most of the faculty members presented & published papers at several reputed National, International conferences and journals.

- Excellent teaching learning environment.
- Department is working on outcome base teaching-learning process.
- Department has good number of Placement record.
- Department organizes Soft Skill & Technical Skill development programs for students in coordination with T&P Department.
- Department provides collaborative interaction of students with Industry Experts.
- Department organizes Conferences, workshops and short term courses for knowledge uplift of faculties and students.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs
- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes
- Research fields trimmed based on performance indicators

### Evaluation Report of the Electrical and Electronics Engineering Department

1. **Name of the Department:** Electrical and Electronics Engineering
2. **Year of Establishment:** 2005
3. **Names of Programmes / Courses offered (UG, PG)**

The following programs are offered in the Electrical and Electronics Engineering department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering  <b>Discipline:</b> Electrical and Electronics Engineering	2005	2005-2006	30
			2006-2010	60
			2011-12	120
2	<b>Degree:</b> Master of Technology <b>Discipline:</b> Power Systems	2013	2013-14	18

#### 4. Name of Interdisciplinary courses and departments involved:

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

B.E –Electrical & Electronics Engineering				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	2016-17/II-I	15A54301	Mathematics-3	H & S
2	2016-17/II-I		Electronic Devices and Circuits	E.C.E
3	2016-17/III-I	13A52501	Managerial Economics & Financial Analysis	M.B.A
4	2016-17/III-I	13A04508	Linear & Digital IC Applications	E.C.E
5	2016-17/IV-I	13A02702	Digital Signal Processing	E.C.E
6	2016-17/IV-I	13A52702	Management Science	MBA
7	2016-17/II-II	15A54402	Mathematics-4	H&S
8	2016-17/II-II	15A52301	Managerial Economics & Financial Analysis	M.B.A
9	2016-17/II-II	15A04409	Analog electronic circuits	E.C.E



10	2016-17/III-II	13A04601	Microprocessors & Microcontrollers	E.C.E
11	2016-17/IV-II	13A04703	EMBEDDED SYSTEMS	ECE

**5. Annual/ semester/choice based credit system (programme wise):**

The UG Program follow the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	Electrical & Electronics Engineering	Semester
2	M.Tech	Power Systems	Semester

**6. Participation of the department in the courses offered by other departments:**

The Department of Electrical & Electronics Engineering is participating in courses offered by other departments are:

S.No	Semester	Course Code(subject)	Course Name(subject)	To Department
1	2016-17/II-I	15A01301	Electrical & Mechanical Technology	CIVIL
2	2016-17/II-1	15A04302	Switching Theory & Logic Design	E.C.E
3	2016-17/II-1	15A02306	Electrical Technology	E.C.E
4	2016-17/II-1	15A99301	Basic Electrical & Electronics Engineering	CSE
5	2016-17/III-1	13A02402	Control System Engineering	ECE
6	2016-17/II-II	15A02303	Control System Engineering	ECE
7	2016-17/II-II	15A99301	Basic Electrical & Electronics Engineering	ME

**7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL****8. Details of courses/programmes discontinued(if any) with reasons : NIL****9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).**

Teaching Post	Under Graduate	
	Sanctioned	Filled

Professor	05	05
Associate Professor	06	06
Assistant Professor	17	17

Teaching Posts	MALE	FEMALE
Professor	4	1
Associate Professor	6	0
Assistant Professor	17	0

**10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)**

Faculty profile is as mentioned in the table below:

S. No	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
1	Dr. M.V Ramesh	Power Electronics	Ph.D	Professor	17	--
2	Dr. A Srinivasan	Power systems	Ph.D	Professor	22	--
3	Dr. Nalinikant mohanty	Power systems	Ph.D	Professor	16	--
4	Dr. S Sankar	Power systems	Ph.D	Professor	12	05
5	Dr. K. Mekala	Power systems	Ph.D	Professor	20	--
6	P.V.Narendra Kumar	Power systems	M.Tech (Ph.D)	Assoc Professor	11	--
7	E.Sethu Bharath Yadav	Power systems	M.Tech	Assoc. Professor	6	--
8	M.Malyadri	Power systems	M.Tech	Assoc. Professor	6	--
9	M.Sudheer Reddy	Power Electronics	M.Tech	Assoc .Professor	6	--
10	P.Kishore	Power systems	M.Tech	Assoc Professor	6	-
11	M.Rajesh	Power systems	M.Tech (Ph.D)	Assoc .Professor	7	-

12	V.Anjaneyulu	Power systems	M.Tech	Asst. Professor	6	-
13	T.Mahidhar	Power systems	M.Tech	Asst. Professor	7	-
14	Sk.Arif Basha	Power systems	M.Tech	Asst. Professor	6	-
15	K.P.Kishore	Power systems	M.Tech	Asst. Professor	5	-
16	Maddali Vamsi Krishna	Power systems	M.Tech	Asst. Professor	5	-
17	V Lokesh	Power systems	M.Tech	Asst. Professor	4	-
18	R.Arun Sagar	Power systems	M.Tech	Asst. Professor	4	-
19	T.NARESH	Power systems	M.Tech	Asst. Professor	3	-
20	D,Manoj Babu	Power systems	M.Tech	Asst. Professor	3	-
21	Sk..Fayaz	Power systems	M.Tech	Asst. Professor	2	-
22	J.Kishore Babu	Power systems	M.Tech	Asst. Professor	2	-
23	N.Mallikarjuna	Power systems	M.Tech	Asst. Professor	2	-
24	G.Kiran Kumar	Power systems	M.Tech	Asst. Professor	2	-
25	V Raja Sekhar	Power systems	M.Tech	Asst. Professor	4	-
26	K.RAGHAVA REDDY	Power systems	M.Tech	Asst. Professor	4	-
27	S.NARESH	Power systems	M.Tech	Asst. Professor	2	-
28	Sd Magbul	Power systems	M.Tech	Asst. Professor	2	-

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL

13. Student Teacher Ratio(Programme-wise):Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher
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					ratio
1	U G B.Tech - Electrical & Electronics Engineering	2016-17	13	9	15:1
		2015-16	44	9	15:1
2		2014-15	09	9	15:1
3		2013-14	52	9	15:1
4		2012-13	109	9	15:1
5		2011-12	114	9	15:1
1	P G M.Tech - Power Systems	2014-15	14	3	12:1
2					
3		2015-16	6	3	12:1
4		2016-17	1	3	12:1

**14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	2	2
Lab Instructors	6	6
Assistants	1	1

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

S.No	Name	Specialization	Qualification
1	Dr. M.V Ramesh	Power Electronics	Ph.D
2	Dr. A Srinivasan	Power systems	Ph.D
3	Dr. Nalinikant mohanty	Power systems	Ph.D
4	Dr. S Sankar	Power systems	Ph.D
5	Dr. K. Mekala	Power systems	Ph.D
6	P.V.Narendra Kumar	Power systems	M.Tech(Ph.D)
7	E.Sethu Bharath Yadav	Power systems	M.Tech
8	M.Malyadri	Power systems	M.Tech

9	M.Sudheer Reddy	Power Electronics	M.Tech
10	P.Kishore	Power systems	M.Tech
11	M.Rajesh	Power systems	M.Tech(Ph.D)
12	V.Anjaneyulu	Power systems	M.Tech
13	T.Mahidhar	Power systems	M.Tech
14	Sk.Arif Basha	Power systems	M.Tech
15	K.P.Kishore	Power systems	M.Tech
16	Maddali Vamsi Krishna	Power systems	M.Tech
17	V Lokesh	Power systems	M.Tech
18	R.Arun Sagar	Power systems	M.Tech
19	T.NARESH	Power systems	M.Tech
20	D,Manoj Babu	Power systems	M.Tech
21	Sk..Fayaz	Power systems	M.Tech
22	J.Kishore Babu	Power systems	M.Tech
23	N.Mallikarjuna	Power systems	M.Tech
24	G.Kiran Kumar	Power systems	M.Tech
25	V Raja Sekhar	Power systems	M.Tech
26	K.RAGHAVA REDDY	Power systems	M.Tech
27	S.NARESH	Power systems	M.Tech
28	Sd Magbul	Power systems	M.Tech

**16. Number of faculty with ongoing projects from**

**a) National:** Nil

**b) International funding:** Nil

**17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received.** NIL

**18. Research Centre/facility recognized by the University : NIL**

**19. Publications:**

S.No	Name of the Faculty	No. of Publications
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1	Dr. M.V Ramesh	7
2	Dr. A Srinivasan	10
3	Dr. Nalinikant mohanty	18
4	Dr. S Sankar	52
5	Dr. K. Mekala	08
6	P.V.Narendra Kumar	4
7	E.Sethu Bharath Yadav	1
8	M.Malyadri	1
9	M.Sudheer Reddy	1
10	P.Kishore	1
11	M.Rajesh	5
12	V.Anjaneyulu	3
13	T.Mahidhar	1
14	Sk.Arif Basha	1
15	K.P.Kishore	1
16	Maddali Vamsi Krishna	1
17	V Lokesh	1
18	R.Arun Sagar	1
19	T.NARESH	1
20	D,Manoj Babu	1
21	Sk..Fayaz	1
22	J.Kishore Babu	1
23	N.Mallikarjuna	1
24	G.Kiran Kumar	1
25	V Raja Sekhar	1
26	K.RAGHAVA REDDY	1
27	S.NARESH	1
28	Sd Magbul	1

- Number of papers published in peer reviewed journals (national/international) by faculty and students.

Total No. of papers published in International Journal: 119

Total No. of papers published in National Journal: NIL

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

- Monographs 02
- Chapter in Books NIL
- Books Edited NIL
- Books with ISBN/ISSN numbers with details of publishers NIL

- Citation Index NIL
- SNIP NIL
- SJR NIL
- Impact factor 0.5-1
- H-index NIL

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

e) National committees: NIL

f) International Committees : NIL

22. Student projects:

A) Percentage of students who have done in-house projects including inter-Departmental/Programming:100%

S NO	Academic Year	No of In-House Projects
1	2015-16	2
2	2014-15	2
3	2013-14	1
4	2012-13	4

B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: 30%

23. Awards / recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists/visitors to the department :

S. No	Discipline	Topic	Expert with company and designation	Academic Year	Dates
1	Electrical and Electronics Engineering	High Voltage Engineering	Dr.B.V.Prasanth, Professor & Head, QIS Engineering College, Ongole	2016-2017	15-02-17
2	Electrical and Electronics Engineering	SCADA	Mr.M.Ravi Kumar, Assistant Engineer, APSPDCL.		18-08-16
3	Electrical and Electronics	MATLAB	Mr.Lakshmana kumar, Assistant Engineer,	2015-16	14-01-16

	Engineering		APTransco		
4	Electrical and Electronics Engineering	High Voltage Engineering	Dr.B.V.Pasanth, Professor & Head, QIS Engineering College, Ongole		18-08-15
5	Electrical and Electronics Engineering	Automation	Mr.N.Srinivasulu, Assistant Engineer, AP Genco	2014-15	12-02-15
6	Electrical and Electronics Engineering	FACTS	Mr.M.Siva kumar, Assistant Engineer, APSPDCL		15-7-14
7	Electrical and Electronics Engineering	Reactive Power compensation	Mr.V.Ranga rao, Assistant Engineer, APSPDCL	2013-14	24-02-14
8	Electrical and Electronics Engineering	Electrical Generation	Mr.M.Siva kumar, Assistant Engineer, APSPDCL		18-7-13

## 25. Seminars/Conferences/Workshops organized and the source of funding

S. N O	Name Of The Resource Person	Area Of The Topic	Title	Academic Year	Date	Funding Agency
1.	P.Vikas Reddy	PCB Design& Fabrication	PCB Design & Fabrication	2016-2017	23-02-17	Priyadarshni College of Engineering & Technology
2	Er. J V K Prasad	Power systems	Thermal generating stations		23-11-16	Priyadarshni College of Engineering & Technology



3	P.Laksman kumar	Power systems	Overview of 400kv substation	2015-2016	25-04-16	Priyadarshni College of Engineering & Technology
4	D. srinivasan	Power Electronics	Harmonic Distortion in A.C Drives		2-12-2015	Priyadarshni College of Engineering & Technology
5	J.Ravikumar	electronics	Quest2k17	2014-2015	20-02-15	Priyadarshni College of Engineering & Technology
7.	Adarsh	Robotics	Robospices	2013-2014	06-03-14	Priyadarshni College of Engineering & Technology
9	p.Munisingh	Power Systems	Relays and its applications	2012-2013	19-08-12	Priyadarshni College of Engineering & Technology
12	M.Z.I Sajid	Digital Electronics	Recent Advancements in digital electronics	2011-2012	10-9-11	Priyadarshni College of Engineering & Technology
14	D.Sushma	Electronic Circuit Analysis	Cascade and Cascode amplifier	2010-2011	13-10-10	Priyadarshni College of Engineering & Technology
15	J.Prasad Babu	Electronic Circuit Analysis	Recent Trends in Electronic Circuit Design	2009-2010	30-04-10	Priyadarshni College of Engineering & Technology
18	Mastanaiah	MATLAB	MATLAB PROGRAMMING	2008-2009	23-12-2008	Priyadarshni College of Engineering & Technology

## 26. Student profile programme/ course wise:

UG: Total intake is: 120

PG: Total intake is: 18

Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
B.TECH (EEE)	2016-17	Admission through APSCHE	12	1	As per APSCHE norms
	2015-16		25	18	
	2014-15		5	4	
	2013-14		34	14	
	2012-13		67	34	
M.TECH (PS)	2016-17	Admission through APSCHE	01	00	As per APSCHE norms
	2015-16		02	04	
	2014-15		13	01	

**27. Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech Electrical & Electronics Engineering	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL
M.Tech Digital Electronics and Communication Systems	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?**

EAXM	2015-16	2014-15	2013-14	2012-13	2011-12
GATE	1	1	0	2	1
CIVIL SERVICES	1	-	-	-	-

29. **Student progression:**

Student Progression		No.of Students				
		2015-16	2014-15	2013-14	2012-13	2011-12
UG-PG		10	3	3	4	4
PG-Ph.D		1	-	01	-	03
Ph.D-Post Doctorate		-	-	-	-	-
Employed	Campus	0	2	0	2	18
	Other than campus	4	5	6	4	3
Self employment		52	46	35	40	21

30. **Details of Infrastructural facilities**a) **Library:**

- Total No. of Volumes: 41
- Journals: 09
- Reports: NIL
- News Letters: 03
- Syllabus: JNTUA
- Question papers: AVAILABLE

b) **Internet facilities for staff and students:**

The college has Internet connectivity of 22 Mbps .Further they have access to close to over 36 computers in different labs and exclusive labs for UG&PG programs in Electrical and Electronics Engineering Department.

c) **Class rooms with ICT facility: 04**

There are 8 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
NB LH 102	I EEE	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
MB LH 301	II EEE	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
SB LH101	III EEE	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
SB LH102	IV EEE	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans

**d) Laboratories:**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	ELECTRICAL CIRCUITS	SHARED	Lab benches-22 Function generators-12 RPSs-19 Analog meters-13 Stabilizer-01
2	ELECTRICAL MACHINES-1	Exclusive	Lab benches-12 Machines- 15 Multimeters-5 Stabilizer-01
3	ELECTRICAL MACHINES-2	Exclusive	Lab benches-12 Machines- 15 Multimeters-5 Stabilizer-01
4	CONTROL SYSTEMS	Shared	Lab benches- 08 CROs- 05 Function generators-05 RPSs-02 Systems- 10 Softwares MATLAB kits- 8

5	ELECTRICAL MEASUREMENTS	Shared	Lab benches-12 kits- 11 Multimeters-5 Stabilizer-01
6	POWER ELECTRONICS	Exclusive	Lab benches-12 Kits-12 CROs- 09
7	POWER SYSTEMS AND SIMULATION	Exclusive	Systems- 15 Softwares MULTISIM matlab

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	158	937	-	-	-
2	2013-14	152	973	-	-	-
3	2014-15	113	800	-	-	-
4	2015-16	115	815	-	-	-

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

S.No	Topic	Academic Year	Date	Guest name / Resource person
1	PCB Design & Fabrication	2016-2017	23-02-17	P.Vikas Reddy
2	Thermal generating stations		23-11-16	J V K Prasad, D.E,
3	Industrial Automation	2015-2016	20-04-16	Madhukar
4	Overview of 400kv substation		25-04-16	P Laksman Kumar

5	PCB Design & Fabrication		23-01-16	P.Vikas Reddy
6	Electrostatic Fields		25-10-15	P.Sreenivasulu
7	PID Controller	2014-2015	05-03-15	Dr. Siva Sankar Reddy
8	FACTS		15-07-14	Mr.M.Siva kumar
9	Use of Transmission Lines in Cables		10-07-14	Dr Ramasri
10	Reactive Power compensation	2013-2014	24-2-14	Mr. V.Ranga rao,
11	Filter Design Techniques	2012-2013	16-04-13	Nagireddy
12	CMOS Transmission Gates and their applications		15-02-13	SK Nasar
13	Adaptive Power Reduction Methods		03-11-12	G.Gnanapriya
14	Control Systems and it's Applications		07-07-12	Dr.B.RamanaReddy
15	Feedback Amplifiers	2011-2012	28-03-12	P.Prathima
16	Multi-Vibrators		09-08-11	K.Rajyalakshmi
17	Recent Innovations in microprocessor technology		28-06-11	SK.M.Shahina
18	Recent Trends in Electronic Circuit Design	2010-2011	07-09-10	J.Prasad Babu
19	Hardware Layout Design		13-5-10	P.Venkateswarlu
20	K-map and its Applications	2009-2010	02-04-10	M.Sarvani
21	CMOS Design Process		07-06-09	D. Chandra Sekhar

### Industrial Visit: 03

#### 33. Teaching methods adopted to improve student learning:

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**                      NIL

35. **SWOC analysis of the department and Future plans**

**Strengths:**

- Wide ranging and multidisciplinary research
- Teams able to implement test environments
- Strong progression expertise and systemic thinking
- Good industry cooperation and networks, good ability to respond to new research needs
- One Centre of brilliance, one Strategic Centre for Science, Technology and Innovation and a number of doctoral programmes in the field.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics

and needs

- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes



## Evaluation Report of the Mechanical Engineering Department

1. **Name of the Department:** Mechanical Engineering
2. **Year of Establishment:** 2012
3. **Names of Programmes / Courses offered (UG)**

The following programs are offered in Mechanical Engineering department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering	2012	2012-13	60
	<b>Discipline:</b> Mechanical Engineering		2013-14	120

4. **Name of Interdisciplinary courses and departments involved:**

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

B.Tech – Mechanical Engineering				
S.No	Year / Sem	Subject code	Name of the subject	Department
1.	I YR, 1 <sup>ST</sup> SEM	15A52101	FUNCTIONAL ENGLISH	Humanities & Sciences
2.	I YR, 1 <sup>ST</sup> SEM	15A54101	MATHEMATICS-1	Humanities & Sciences
3.	I YR, 1 <sup>ST</sup> SEM	15A01101	ENVIRONMENTAL STUDIES	Humanities & Sciences
4.	I YR, 2 <sup>ND</sup> SEM	15A52201	ENGLISH FOR PROFESSIONAL COMMUNICATION	Humanities & Sciences
5.	I YR, 2 <sup>ND</sup> SEM	15A54201	MATHEMATICS-2	Humanities & Sciences
6.	II YR, 1 <sup>ST</sup> SEM	15A54301	MATHEMATICS-3	Humanities & Sciences
7.	II YR, 1 <sup>ST</sup> SEM	15A02306	ELECTRICAL TECHNOLOGY	EEE
8.	II YR, 1 <sup>ST</sup> SEM	15A54401	MATHEMATICS-4	Humanities & Sciences
9	II YR, 1 <sup>ST</sup> SEM	15A52301	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS	MBA

10.	II YR, 1 <sup>ST</sup> SEM	15A01308	MECHANICS OF SOLIDS	CIVIL ENGG
11.	II YR, 2 <sup>ND</sup> SEM	15A54401	PROBABILITY AND STATISTICS	Humanities & Sciences
12.	II YR, 2 <sup>ND</sup> SEM	15A99301	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	EEE
13.	III YR, 2 <sup>ND</sup> SEM	13A52501	MANEGERIAL ECONOMICS AND FINANCIAL ANALYSIS	MBA

**5. Annual/ semester/choice based credit system (programme wise):**

The UG Program follows the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	Mechanical Engineering	Semester

**6. Participation of the department in the courses offered by other departments:**

The Department of Mechanical Engineering is participating in courses offered by other departments are:

S.No	Semester	Course Code(subject)	Course Name(subject)	To Department
1.	2016-17, FIRST YR, 1 <sup>ST</sup> SEM	15A03101	Engineering Drawing	CE
2.	2016-17, FIRST YR, 1 <sup>ST</sup> SEM	15A03101	Engineering Drawing	EEE
3.	2016-17, FIRST YR, 1 <sup>ST</sup> SEM	15A03101	Engineering Drawing	CSE
4.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A03101	Engineering Drawing	ECE
5.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A03101	Engineering Drawing	ME
6.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A99201	Engineering Workshop	CE

7.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A99201	Engineering Workshop	EEE
8.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A99201	Engineering Workshop	CSE
9.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A99201	Engineering Workshop	ECE
10.	2016-17, FIRST YR, 2 <sup>ND</sup> SEM	15A99201	Engineering Workshop	ME

7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL
8. Details of courses/programmes discontinued(if any) with reasons : NIL
9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).

Teaching Post	Under Graduate	
	Sanctioned	Filled
Professor	2	2
Associate Professor	6	6
Assistant Professor	15	15

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)

Faculty profile is as mentioned in the table below:

S.No	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
1.	DR.R.SRI LAKSHMI	FRACTURE MECHANICS	Ph.D	PROFESSOR	10 YEARS	NIL
2.	Dr. Ansari	THERMAL ENGINEERING	Ph.D	PROFESSOR	25 YEARS	NIL
3.	Mr. Ch. RAMA KRISHNAIAH	PRODUCTION ENGINEERING	M.Tech	ASSOCIATE PROFESSOR	9 YEARS 6 MONTHS	NIL
4.	MR. S. M. A. RAHEEM	THERMAL ENGINEERING	M.Tech	ASSOCIATE PROFESSOR	11 YEARS	NIL
5.	Mr. D.VENKATA SUMAN	THERMAL ENGINEERING	M.Tech	ASSOCIATE PROFESSOR	8 YEARS	NIL
6.	Mr. P. CHANDRASEK HAR	THERMAL ENERGY & ENERGY SYSTEMS	M.Tech(P.hD)	ASSOCIATE PROFESSOR	11 YEARS	NIL
7.	Mr. GHV PRASAD BABU	CAD/CAM	M.Tech(P.hD)	ASSOCIATE PROFESSOR	8 YEARS	NIL

8.	MR. PENCHALAI AH	THERMAL ENGINEERING	M.Tech	ASSOCIATE PROFESSOR	15 YEARS	NIL
9	Mr. T. MUNIAH	ENGINEERING DESIGN	M.Tech	ASSISTANT PROFESSOR	8 YEARS	NIL
10.	Mr. V. VARUN KUMAR	MACHINE DESIGN	M.Tech	ASSISTANT PROFESSOR	06 YEARS	NIL
11.	Mr. G. KASI VISVESWARAR AO	THERMAL ENGINEERING	M.Tech	ASSISTANT PROFESSOR	04 YEARS	NIL
12.	Mr. G SRINIVASULU	CAD/CAM	M.Tech	ASSISTANT PROFESSOR	05 YEARS	NIL
13.	MR. Y MURALI KRISHNA	CAD/CAM	M.Tech	ASSISTANT PROFESSOR	05 YEARS	NIL
14.	Mr. HAZI MASTHAN	DESIGN FOR MANUFACTURING	M.Tech	ASSISTANT PROFESSOR	05 YEARS	NIL
15.	Mr. SYED GILANI	THERMAL ENGG	M.Tech	ASSISTANT PROFESSOR	04 YEARS	NIL
16.	Mr. J NARENDRA	CAD/CAM	M.Tech	ASSISTANT PROFESSOR	04 YEARS	NIL
17.	Mr. M. VENKATESH	THERMAL ENGG	B.Tech (M.Tech)	ASSISTANT PROFESSOR	03 YEARS	NIL
18	Mr. V SRIKANTH	MACHINE DESIGN	B.Tech (M.Tech)	ASSISTANT PROFESSOR	02 YEARS	NIL
19	Mr. M ANIL	MACHINE DESIGN	B.Tech (M.Tech)	ASSISTANT PROFESSOR	02 YEARS	NIL
20	Mr. P ASHOK REDDY	MACHINE DESIGN	B.Tech (M.Tech)	ASSISTANT PROFESSOR	02 YEARS	NIL
21	Mr. D SRIKANTH	PRODUCTION ENGG	B.Tech (M.Tech)	ASSISTANT PROFESSOR	02 YEARS	NIL
22.	Mr. K SUBBAREDDY	MACHINE DESIGN	B.Tech (M.Tech)	ASSISTANT PROFESSOR	09 years	NIL
23	Mr. M SAINATH	CAD/CAM	B.Tech (M.Tech)	ASSISTANT PROFESSOR	02 YEARS	NIL

#### 11. List of senior visiting faculty:

S.No	Name	Specialization	Qualification	Designation	Parent organization
1	Dr. Veerabadra Reddy	THERMAL ENGG	Ph.D	Professor	G. Pulla Reddy college of Engineering & Technology, Kurnool
2	Dr. K.Sridhar	MACHINE DESIGN	Ph.D	Professor	Thaigaraj college of Engineering & Technology, Madurai

#### 12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty: NIL

#### 13. Student Teacher Ratio(Programme-wise):

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
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1.	U G B.Tech – Mechanical Engineering	2016-17	360	24	15:1
2.		2015-16	300	20	15:1
3.		2014-15	180	12	15:1
4.		2013-14	60	04	15:1
5.		2012-13	00	01	15:1

**14. Number of academic support staff (Technical) and administrative staff: Sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	02	02
Lab Instructors	10	10
Assistants	01	01

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

S.No	Name	Specialization	Qualification
1.	DR.R.SRI LAKSHMI	FRACTURE MECHANICS	PROFESSOR
2.	Dr. ANSARI	THERMAL ENGINEERING	PROFESSOR
3.	Mr. Ch. RAMA KRISHNAIAH	PRODUCTION ENGINEERING	ASSOCIATE PROFESSOR
4.	MR. S. M. A. RAHEEM	THERMAL ENGINEERING	ASSOCIATE PROFESSOR
5.	Mr. D.VENKATA SUMAN	THERMAL ENGINEERING	ASSOCIATE PROFESSOR
6.	Mr. P. CHANDRASEKHAR	THERMAL ENERGY & ENERGY SYSTEMS	ASSOCIATE PROFESSOR
7.	Mr. GHV PRASAD BABU	CAD/CAM	ASSOCIATE PROFESSOR
8.	MR. PENCHALAIAH	THERMAL ENGINEERING	ASSOCIATE PROFESSOR
9	Mr. T. MUNEIAH	ENGINEERING DESIGN	ASSISTANT PROFESSOR
10.	Mr. V. VARUN KUMAR	MACHINE DESIGN	ASSISTANT PROFESSOR
11.	Mr. G. KASI VISVESWARARAO	THERMAL ENGINEERING	ASSISTANT PROFESSOR
12.	Mr. G SRINIVASULU	CAD/CAM	ASSISTANT PROFESSOR
13.	MR. Y MURALI KRISHNA	CAD/CAM	ASSISTANT PROFESSOR
14.	Mr. HAZI MASTHAN	DESIGN FOR MANUFACTURING	ASSISTANT PROFESSOR

15.	Mr. SYED GILANI	THERMAL ENGG	ASSISTANT PROFESSOR
16.	Mr. J NARENDRA	CAD/CAM	ASSISTANT PROFESSOR
17.	Mr. M. VENKATESH	THERMAL ENGG	ASSISTANT PROFESSOR
18.	Mr. V SRIKANTH	MACHINE DESIGN	ASSISTANT PROFESSOR
19.	Mr. M ANIL	MACHINE DESIGN	ASSISTANT PROFESSOR
20.	Mr. P ASHOK REDDY	MACHINE DESIGN	ASSISTANT PROFESSOR
21.	Mr. D SRIKANTH	PRODUCTION ENGG	ASSISTANT PROFESSOR
22.	Mr. K SUBBAREDDY	MACHINE DESIGN	ASSISTANT PROFESSOR
23.	Mr. M SAINATH	CAD/CAM	ASSISTANT PROFESSOR

**16. Number of faculty with ongoing projects from**

**a) National: NIL**

**b) International funding: NIL**

**17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received Research Centre/facility recognized by the University :NIL**

**18. Research center / facility recognized by the university: NIL**

**19. Publications:**

S.No	Name of the Faculty	No. of Publications
1.	DR.R.SRI LAKSHMI	4
2.	Dr. ANSARI	8
3.	Mr. Ch. RAMA KRISHNAIAH	2
4.	MR. S. M. A. RAHEEM	2
5.	Mr. D.VENKATA SUMAN	1
6.	Mr. P. CHANDRASEKHAR	2
7.	Mr. GHV PRASAD BABU	2
8.	MR. PENCHALAIAH	2
9.	Mr. T. MUNEIAH	4
10.	Mr. V. VARUN KUMAR	3
11.	Mr. G. KASI VISVESWARARAO	2
12.	Mr. G SRINIVASULU	1
13.	MR. Y MURALI KRISHNA	1
14.	Mr. HAZI MASTHAN	--
15.	Mr. SYED GILANI	--
16.	Mr. J NARENDRA	--
17.	Mr. M. VENKATESH	--
18.	Mr. V SRIKANTH	--

19	Mr. M ANIL	--
20	Mr. P ASHOK REDDY	--
21	Mr. D SRIKANTH	--
22.	Mr. K SUBBAREDDY	--
23	Mr. M SAINATH	--

- **Number of papers published in peer reviewed journals (national/international) by faculty and students.**

Total No. of papers published in International Journal: 45

Total No. of papers published in National Journal: NIL

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)**

- **Monographs** : 01
- **Chapter in Books** : NIL
- **Books Edited** : NIL
- **Books with ISBN/ISSN numbers with details of publishers:** NIL
- **Citation Index** : NIL
- **SNIP** : NIL
- **SJR** : NIL
- **Impact factor** : 0.5-1
- **h-index** : NIL

## 20. Areas of consultancy and income generated:

S No	Year	Project Name	Customer	Project Value(lakhs)	Principal Investigator	Associate Investigators
1	2014	Designed interior air-conditioning setup for the entire hall.	SVRKalyanaman daram	10	Mr. P CHANDRA SEKHAR	Mr. M. Venkatesh
2	2015	Design and Manufacturing of Hydraulic ram	Sri Sai Fly ash & Cement brick agency	01	Dr.R.Sri Lakshmi	Mr. T MUNEIAH

**21. Faculty as members in**

- a) National committees: NIL  
 b) International Committees : NIL

**22. Student projects:**

- A) Percentage of students who have done in-house projects including inter-Departmental/ Programming: 100%

S NO	Academic Year	No of In-House Projects
1	2015-16	06
2	2014-15	NA
3	2013-14	NA
4	2012-13	NA

- B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies. -----NIL

**23. Awards / recognitions received by faculty and students-----NIL****24. List of eminent academicians and scientists/visitors to the department :**

S.No	Discipline	Topic	Expert with company and designation	Dates
1	MECHANICAL ENGG	RECENT TRENDS IN FINITE ELEMENT ANALYSIS	P KRISHNA, SENIOR DESIGN ENGINEER, TATA MOTORS , BENGALURU	03.10.15

**25. Seminars/Conferences/Workshops organized and the source of funding**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
1.	Dr.Veerabadra Reddy	Mechanics of Solids	Applications of “Mechanics of solids”	17.09.2015	PES



2.	Dr.Kumara guru paran	Design of Machine Elements	Fatigue and Fracture Behaviour of Engineering Materials	04.02.2015	PES
3.	Dr.R.Rajendran	Thermal Engineering	Advances in "I.C. Engines"	10.07.2015	PES
4.	Dr.B.Janardhan	Finite Element Methods	Finite Element Methods	09.09.2015	PES

**26. Student profile programme/ course wise:**

UG: Total intake is: 120

Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
B.TECH (ME)	2016-17	Admission through APSCHE	07	NIL	As per APSCHE norms
	2015-16		54	NIL	
	2014-15		12	NIL	
	2013-14		37	NIL	
	2012-13		44	NIL	

**27. Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech Mechanical Engineering	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL

**28. how many students have cleared national and state competitive examinations such as, NET, SLET, GATE, CIVIL Services, degence service, et., ?**

**29. Student progression:**

Student Progression	No. of Students
---------------------	-----------------

EAXM	2015-16	2014-15	2013-14	2012-13	2011-12
GATE	01	NIL	NIL	NIL	NIL
CIVIL SERVICES	NIL	NIL	NIL	NIL	NIL

		2015-16	2014-15	2013-14	2012-13	2011-12
UG-PG		04	NIL	NIL	NIL	NIL
PG-Ph.D		00	NIL	NIL	NIL	NIL
Ph.D-Post Doctorate		00	NIL	NIL	NIL	NIL
Employed	Campus	14	NIL	NIL	NIL	NIL
	Other than campus	12	NIL	NIL	NIL	NIL
Self employment		18	NIL	NIL	NIL	NIL

### 30. Details of Department level Infrastructural facilities

#### a) Library:

- Total No. of Volumes: 21
- Journals: 03
- Reports: NIL
- News Letters: NIL
- Syllabus: JNTUA
- Question papers: AVAILABLE

#### b) Internet facilities for staff and students:

The college has Internet connectivity of 22 Mbps leased line 12 (BSNL) + 10 Mbps OFC (Micronova) fibre enabled on connectivity. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 60 computers in different labs and exclusive labs for UG programs in Mechanical Department.

#### c) Class rooms with ICT facility:

There are 06 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials

- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
LH 301	II ME –A	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
LH VIII	II ME –B	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
LH 302	III ME –A	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
LH IX	III ME –B	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
LH 303	IV ME –A	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
LH VII	IV ME –B	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans

**d) Laboratories:**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	Engineering Workshop	Shared	Carpentry, Fitting, House wiring, Welding, Tinsmithy tools
2	Manufacturing Technology Lab	Exclusive	Blow moulding machine, injection moulding machine, Hydraulic press, Blanking and piercing tools, TIG welding machine, Pattern making and Moulding operation tools
3	Machine Tools Lab	Exclusive	Lathe machines, Milling machine, Drilling machine, Power saw, Surface grinding machine, Shaping machine, Slotting machine,
4	Thermal Engineering Lab	Exclusive	Four stroke Diesel engines, Reciprocating Air compressor. Test rig for

			performance tests on engines, Cut section of four stroke engine, Four stroke petrol engine,
5	Heat Transfer Lab	Exclusive	Pin fin, Thermal conductivity of metal rod, Emissivity apparatus, Thermal conductivity of Insulating powder, Stefan Boltzman constant, Natural and Forced convection, Parallel and counter flow heat exchangers, Thermal conductivity of composite wall
6	Fluid Mechanics & Hydraulic Machinery Lab	Shared	Impact of jet apparatus, Venturi meter and Orifice meter, Flow through nozzles, Single stage and multi stage centrifugal pump, Pelton wheel, Pipe friction setup.
7	Mechanics of Solids Lab	Shared	Hardness test, Universal testing machine, Compression test setup, Bending test setup, Torsion test setup.
8	Metrology Lab	Exclusive	Slip gauges, Comparators, Dial gauge indicators, Sine bar, Micrometers, Tool makers microscope, Surface plate, Straight edge.
9	Instrumentation & Control Systems Lab	Exclusive	Pressure gauges, Strain gauge, LVDT transducers, Thermocouples, Capacitive transducer, Rotameter for flow measurement, Mcleod gauge
10	Material Science Lab	Exclusive	Set up for Preparation and study of Microstructure of

			pure metals Fe, Cu and Al, Mild steels like Low and high carbon steels, Jominy end quench test, Set up for studying of micro structure of heat treated steels, non ferrous alloys.
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**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	03	24	NIL	NIL	NIL
2	2013-14	06	23	NIL	NIL	NIL
3	2014-15	02	5	NIL	NIL	NIL
4	2015-16	06	18	NIL	NIL	NIL

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

S.No	Topic	Date	Guest name / Resource person
<b>YEAR 2016 -2017</b>			
1.	Special Lecture on “Fluid Mechanics and Machinery”	29.03.2017	Dr. M. Krishna Kishore
2.	Seminar on “Kinematics of Machines”	12.09.2016	Dr. K.Vijay kumar
3.	Work shop on “Advance research in thermal sciences.”	02.11.2016	Dr. D. Prasad Rao
<b>YEAR 2015 -2016</b>			
1.	Special Lecture on “Advances in I.C. Engines”	10.02.2016	Dr.R.Rajendran
2.	Seminar on “Finite Element Methods”	09.03.2016	Dr.B.Janardhan
3.	Work shop on “Computational fluid Dynamics”	21.04.2016	Dr. M.Sivakrishna
4.	Workshop on “Automation and Robotics”	15.09.2015	Dr. K. Balakrishnan

5.	Seminar on “Manufacturing Methods”	22.11.2015	Dr. A. Ravikumar
<b>Year 2014 -2015</b>			
1.	Special Lecture on “Refrigeration and Cryogenics”	23.01.2015	Dr. S. Muralikrishna
2.	Seminar on “Recent trends in design of Automobiles ”	05.03.2015	Dr. M.Munikumar
3.	Work shop on “FEM”	16.04.2015	Dr. S. Gopal Reddy
4.	Workshop on “CAD/CAM”	27.09.2014	Dr. K. S.N.Rao
5.	Seminar on “Heat and Mass Transfer”	13.11.2014	Dr. J. Mallikarjuna
<b>YEAR 2013-2014</b>			
1.	Special Lecture on “Thermal Engineering”	23.01.2014	Dr. P.Saibabu
2.	Seminar on “Emerging trends in Mechanical Engineering ”	05.03.2014	Dr.K. Srinivasarao
3.	Seminar on “Dynamics of Machines”	16.04.2014	Dr. S. Radhakrishna
4.	Workshop on “ Manufacturing Techniques”	05.11.2013	Dr.T. Ramakrishnaiah
5.	Special Lecture on “Material Science and Metallurgy”	20.08.2013	Dr. N. Nagendra babu

### Industrial Visit: 03

#### 33. Teaching methods adopted to improve student learning:

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension

activities NIL

**35. SWOC analysis of the department and Future plans.**

**Strengths:**

- Wide ranging and multidisciplinary research
- Teams able to implement test environments
- Strong progression expertise and systemic thinking
- Good industry cooperation and networks, good ability to respond to new research needs
- One Centre of brilliance, one Strategic Centre for Science, Technology and Innovation and a number of doctoral programmes in the field.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs
- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes
- Research fields trimmed based on performance indicators

## Evaluation Report of the Civil Engineering Department

1. Name of the Department: **CIVIL ENGINEERING**
2. Year of Establishment: 2012
3. Names of Programmes / Courses offered (UG)

The following programs are offered in the **CIVIL ENGINEERING** Department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering  <b>Discipline:</b> <b>CIVIL ENGINEERING</b>	2012	2012-13	60
			2013-14	120

4. Name of Interdisciplinary courses and departments involved:

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

B.E -Civil Engineering				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	2016-17 / II-I	13A54301	Mathematics-III	H&S
2	2016-17 / II-I	13A99301	Electrical & Mechanical Technology	EEE & ME
3	2016-17 / II-II	15A54401	Probability & Statistics	H&S
4	2016-17 / II-II	13A52401	Managerial Economics & Financial Analysis	MBA
5	2016-17 / IV-I	13A52501	Managerial Economics & Financial Analysis	MBA

5. Annual/ semester/choice based credit system (programmewise):

The UG Program follow the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	Civil Engineering	Semester

6. Participation of the department in the courses offered by other departments:

The Department of **CIVIL ENGINEERING** is participating in courses offered by other



departments are:

S.No	Semester	Course Code	Course Name	To Department
1	2016-17 /I-II	15A01201	Engineering mechanics	H&S

7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL
8. Details of courses/programmes discontinued(if any) with reasons :- NIL
9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).

Teaching Post	Under Graduate	
	Sanctioned	Filled
Professor	2	2
Associate Professor	5	0
Assistant Professor	13	18

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)

Faculty profile is as mentioned in the table below:

S.No	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
1	DR.K.VIJAYA BHASKAR REDDY	Water Resources Engineering	Ph.D	Professor	25	Nil
2	DR. SONALI MANNA	Chemical engineering	Ph.D	Professor	8	Nil
3	P.KIRAN	Structural Engineering	M.Tech	Asst.Prof	3	Nil
4	P. ASHOK KUMAR	Structural Engineering	M.Tech	Asst.Prof	2	Nil
5	L .V. NAGARAJA	Structural Engineering	M.Tech	Asst.Prof	2	Nil

6	R. KALIDAS	Structural Engineering	M.Tech	Asst.Prof	2	Nil
7	B.HARIPRASAD	Structural Engineering	M.Tech	Asst.Prof	3	Nil
8	K.PRABHAKARAN	Structural Engineering	M.Tech	Asst.Prof	2	Nil
9	T.R.VIGNESH	Structural Engineering	M.Tech	Asst.Prof	2	Nil
10	K.SURESH	Structural Engineering	M.Tech	Asst.Prof	1	Nil
11	M.DHRUVA TEJA	Structural Engineering	M.Tech	Asst.Prof	2	Nil
12	S.MAHESH	Structural Engineering	M.Tech	Asst.Prof	2	Nil
13	K.LOKESH	Structural Engineering	M.Tech	Asst.Prof	3	Nil
14	M. MANOJ PRAVARLY	Structural Engineering	M.Tech	Asst.Prof	2	Nil
15	A.SRI LAKSHMI	Structural Engineering	M.Tech	Asst.Prof	1	Nil
16	D.THANGARAJ	Structural Engineering	M.Tech	Asst.Prof	2	Nil
17	K. VINOD KUMAR	Structural Engineering	M.Tech	Asst.Prof	1	Nil
18	S.KARTHIK	Structural Engineering	M.Tech	Asst.Prof	2	Nil
19	K.C.SIVA SHANKAR	Structural Engineering	M.Tech	Asst.Prof	2	Nil
20	G. MANIKANDAN	Structural Engineering	M.Tech	Asst.Prof	1	Nil

11. List of senior visiting faculty: NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL
13. Student Teacher Ratio(Program me-wise):

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	U G B.Tech - Civil Engineering	2016-17	300	20	15:1
2		2015-16	300	20	15:1
3		2014-15	180	12	15:1
4		2013-14	60	4	15:1

14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	2	2
Lab Instructors	6	6
Assistants	1	1

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

S.No	Name	Specialization	Qualification
1	DR.K.VIJAYA BHASKAR REDDY	Water Resources Engineering	Ph.D
2	DR. SONALI MANNA	Chemical engineering	Ph.D
3	P.KIRAN	Structural Engineering	M.Tech
4	P. ASHOK KUMAR	Structural Engineering	M.Tech
5	L .V. NAGARAJA	Structural Engineering	M.Tech
6	R. KALIDAS	Structural Engineering	M.Tech
7	B.HARIPRASAD	Structural Engineering	M.Tech
8	K.PRABHAKARAN	Structural Engineering	M.Tech

9	T.R.VIGNESH	Structural Engineering	M.Tech
10	K.SURESH	Structural Engineering	M.Tech
11	M.DHRUVA TEJA	Structural Engineering	M.Tech
12	S.MAHESH	Structural Engineering	M.Tech
13	K.LOKESH	Structural Engineering	M.Tech
14	M. MANOJ PRAVARLY	Structural Engineering	M.Tech
15	A.SRI LAKSHMI	Structural Engineering	M.Tech
16	D.THANGARAJ	Structural Engineering	M.Tech
17	K. VINOD KUMAR	Structural Engineering	M.Tech
18	S.KARTHIK	Structural Engineering	M.Tech
19	K.C.SIVA SHANKAR	Structural Engineering	M.Tech
20	G. MANIKANDAN	Structural Engineering	M.Tech

**16. Number of faculty with ongoing projects from**

**a) National: NIL**

**b) International funding: NIL**

**17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received. NIL**

**18. Research center / facility recognized by the university. NO**

**19. Publications:**

S.No	Name	No. of Publications
1	DR.K.VIJAYA BHASKAR REDDY	3
2	DR. SONALI MANNA	2
3	P.KIRAN	1
4	P. ASHOK KUMAR	1

5	L .V. NAGARAJA	1
6	R. KALIDAS	1
7	B.HARIPRASAD	1
8	K.PRABHAKARAN	1
9	T.R.VIGNESH	1
10	K.SURESH	1
11	M.DHRUVA TEJA	1
12	S.MAHESH	1
13	K.LOKESH	1
14	M. MANOJ PRAVARLY	1
15	A.SRI LAKSHMI	1
16	D.THANGARAJ	1
17	K. VINOD KUMAR	1
18	S.KARTHIK	1
19	K.C.SIVA SHANKAR	1
20	G. MANIKANDAN	1

**Number of papers published in peer reviewed journals (national/ international) by faculty and students.**

Total No. of papers published in International Journal: **23**

Total No. of papers published in National Journal: **00**

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)**

- **Monographs** :NIL
- **Chapter in Books** :NIL
- **Books Edited** :NIL

- Books with ISBN/ISSN numbers with details of publishers :04
- Citation Index :NIL
- SNIP :NIL
- SJR :NIL
- Impact factor :NIL
- h-index :NIL

**20. Areas of consultancy and income generated:**

S.NO	Name of the Faculty	Details of consultancy	Amount	Duration
1	DR.K.VIJAYA BHASKAR REDDY	SOIL TESTING	20000	2015-16
2	P.KIRAN	SOIL TESTING	20000	2014-15

**21. Faculty as members in**

g) National committees: -NIL----

h) International Committees : -NIL-----

**22. Student projects:**

A)Percentage of students who have done in-house projects including inter-Departmental/Programming:100%

S NO	Academic Year	No of In-House Projects
1	2015-16	10

B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: -----

**23. Awards / recognitions received by faculty and students:NIL**

**24. List of eminent academicians and scientists/visitors to the department :**

S.No	Discipline	Topic	Expert with company and designation	Academic Year	Dates
1	CE	FINITE ELEMENT METHODS	Dr. CHAVA SRINIVAS VRSEC ,Vijayawada	2016-2017	22-09-2016
2	CE	SOIL TESTING	Dr. N Krishna Murthy VRSEC ,Vijayawada		28-08-16

3	CE	EARTHQUAKE ENGINEERING	Dr. Kota srinivas RVR& JC ,Guntur	2015-2016	21-07-15
4	CE	PROJECT MANAGEMENT	N.P.N Murthy BEC, Bapatla		11-02-15
5	CE	QUALITY CONTROL SURVEYINNG	Dr. Krishna Mohan GEC ,Hyderabad	2014-2015	16-10-2014
6	CE	TRANSPORTATION ENGINEERING	Dr. Krishna Rao VRSEC ,Vijayawada		14-8-2014

**25. Seminars/Conferences/Workshops organized and the source of funding**  
**Seminars organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	Dr .M .GHOUSE, SVCET , Chittoor	Geo- informatics	GPS SYSTEM	03-05-2016	PCET
2	Dr. R. Md. Rafi, VITS , Vellore	Transportation	ROTARY SYSTEM	16-08-2016	PCET
<b>Academic year 2015-16</b>					
3	Dr P VENU MADHAV ASCET , NELLORE.	Concrete Technology	Mix proportions	13-09-2015	PCET
4	Dr .Venkayya GIST,Nellore	Geotech	Stabilization of solis	14-07-2015	PCET

**Conferences organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	Dr P VENU MADHAV ASCET , NELLORE.	Concrete Technology	New Techniques in Concrete Technology	7-8-16	PCET
2	Dr.NR KRISHNAMURTHY VRSEC , Vijayawada	Geotech	Bearing capacity of soils	5-12-16	PCET

<b>Academic year 2015-16</b>					
3	Dr . MVS RAJU	Environmental Engineering	Water Treatment Methods	17-03-2016	PCET
4	Dr. CH SRINIVAS	Earthquake Engineering	Seismic analysis of Building	16-09-2015	PCET

**Workshops organized**

<b>S.NO</b>	<b>Name Of The Resource Person</b>	<b>Area Of The Topic</b>	<b>Title</b>	<b>Date</b>	<b>Funding Agency</b>
<b>Academic year 2016-17</b>					
1	Dr. CH SUNEETHA SVEC ,Tirupati	Environmental Engineering	Air Pollution Control	14-01-2016	PCET
2	G.SUKUMAR S E VNR Constructions	Earthquake Engineering	Analysis of Earthquake Building	28-11-06	PCET
<b>Academic year 2015-16</b>					
3	M.ANIRUDH	Strength of Materials	Deflection of Beams	11-02-16 TO 13-02-16	PCET

**26. Student profile programme/ course wise:**

UG: Total intake is: 120

Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
B.TECH (CE)	2016-17	Admission through APSCHE	09	01	As per APSCHE norms
	2015-16		49	05	
	2014-15		12	02	
	2013-14		46	03	
	2012-13		53	07	



## 26. Diversity of students:

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech Civil Engineering	2015-16	NIL	100%	NIL	NIL

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

EXAM	2015-16
GATE	01
CIVIL SERVICES	00

## 29. Student progression:

Student Progression		2015-16
UG-PG		05
PG-Ph.D		NIL
Ph.D-Post Doctorate		NIL
Employed	Campus	00
	Other than campus	15
Self employment		10

## 30. Details of Department level Infrastructural facilities

## a) Library:

- Total No. of Volumes: 38
- Journals: NIL
- Reports: NIL
- News Letters: NIL
- Syllabus: JNTUA
- Question papers: AVAILABLE

b) **Internet facilities for staff and students:**

The college has Internet connectivity of 22 Mbps leased line 12 (BSNL) + 10 Mbps OFC (Micronova) fibre enabled on connectivity. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 60 computers in different labs and exclusive labs for UG program in Civil Department.

c) **Class rooms with ICT facility:03**

There are 3 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
MB-104	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
MB-101	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
MB-102	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans

d) **Laboratories:****LAB Infrastructure****Number of Computers with Configuration**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	SM	SHARED	
2	Surveying-1	Shared	Lab benches-08 Chains-3 Theodilite-5 Tripods-5 Plane Tables-5 Compass-5
3	Surveying-II	Shared	Lab benches-08 Auto Level-5

			Dumpy Level-5 Theodilite-5
4	HMM	Exclusive	Lab benches- 15 Orifice & Venturi Meter Friction loss Impact of jet on Vanes Centrifugal Pump Notches Pelton turbine
5	CT	Shared	Lab Benches-12 Slump cone Compaction Factor Operator Lechatliers Operators Rebound Hammer Specific Gravity Bottles Vicats Apparatus
6	EG	Shared	Lab benches-08 Minerals-30 Rocks-15
7	GTE	Shared	Lab Benches-12 Casagrande Apparatus Ovens-2 Sieve Set-1 Proctor Test Apparatus
8	EE	Exclusive	Lab Benches-12 PH meter Turbidity Meter Conductivity Meter BOD Equipment
9	Highway materials	Shared	Lab Benches-12 Impact Machine Loss Angles machine Abrasion Testing Machine Penetration Machine Elongation & Flakiness Index Ductility Machine
10	Cad	Exclusive	Systems-50 Chairs-50

31. Number of students receiving financial assistance from college, university, government or other agencies :

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	5	25	NIL	NIL	NIL
2	2013-14	5	25	NIL	NIL	NIL
3	2014-15	1	5	NIL	NIL	NIL
4	2015-16	4	20	NIL	NIL	NIL
5	2016-17	1	4	NIL	NIL	NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

#### Special Lecturers Organized

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Geo- informatics	21-04-2017	Dr. R. Md. Rafi, VITS , Vellore
2	Transportation	04-10-2016	Dr .M .GHOUSE, SVCET , Chittore
<b>Academic Year-2015-16</b>			
3	Concrete Technology	21-04-2016	Dr P VENU MADHAV ASCET , NELLORE.
4	Geotech	04-10-2015	Dr .Venkayya GIST,Nellore

#### Workshops Organized

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Air Pollution Control	14-01-	Dr. CH SUNEETHA SVEC ,Tirupati

		2016	
2	Analysis of Earthquake Building	28-11-06	G.SUKUMAR S E VNR Constructions
<b>Academic Year-2015-16</b>			
3	DEFLECTION OF BEAMS	11-02-16 TO 13-02-16	M.ANIRUDH

### Seminars Organized

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Geo- informatics	03-05-2016	Dr .M .GHOUSE, SVCET , Chittore
2	Transportation	16-08-2016	Dr. R. Md. Rafi, VITS , Vellore
<b>Academic Year-2015-16</b>			
5	Mix proportions	13-9-2015	Dr P VENU MADHAV ASCET , NELLORE.
6	Stabilization of soils	14-07-2015	Dr .Venkayya GIST,Nellore

### Industrial Visit: 2

#### 33. Teaching methods adopted to improve student learning:

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.  
Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

Celebrated International women's day, National festivals, NSS activities

**35. SWOC analysis of the department and Future plans****Strengths:**

- Well qualified and experienced faculty.
- Well equipped and modern laboratories.
- Most of the faculty members presented & published papers at several reputed National, International conferences and journals.
- Excellent teaching learning environment.
- Department is working on outcome base teaching-learning process.
- Department has good number of Placement record.
- Department organizes Soft Skill & Technical Skill development programs for students in coordination with T&P Department.
- Department provides collaborative interaction of students with Industry Experts.
- Department organizes Conferences, workshops and short term courses for knowledge uplift of faculties and students.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs
- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes
- Research fields trimmed based on performance indicators

### Evaluation Report of the Science and Humanities Department

1. **Name of the Department:** Science and Humanities
2. **Year of Establishment:** 2005
3. **Names of Programmes / Courses offered (UG)**

The following programs are offered in the Electronics and Communication Engineering department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Bachelor Degree in Engineering  <b>Discipline:</b> Science and Humanities	2005	2005-06	240
			2006-07	300
			2007-08	360
			2008-09	420
			2009-10	420
			2010-2011	420
			2011-2012	480
			2012-2013	600
			2013-2014	720

#### 4. Name of Interdisciplinary courses and departments involved:

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

Science and Humanities Department				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	I-II-Sem	15A04201	Network Analysis	ECE
2	I-II-Sem	15A02201	Electrical Circuits	EEE
3	I-I & II-Sem	15A03101	Engineering Drawing	Mechanical
4	I-I-Sem	15A05101	Computer Programming	CSE
5	I-I-Sem	15A99201	Engineering Work Shop	Mechanical
6	I-I-Sem	15A99201	IT Work Shop	CSE
7	I-II-Sem	15A05201	Data Structures	CSE

8	I-I-Sem	15A05102	Computer Programming LAB	CSE
9	I-II-Sem	15A05202	Data Structures LAB	CSE
10	I-II-Sem	15A04202	Network Analysis Lab	ECE
11	I-II-Sem	15A01201	Engineering Mechanics	CIVIL
12	I-II-Sem	15A01202	Engineering Mechanics Lab	CIVIL
13	I-II-Sem	15A02202	Electrical Circuits Lab	EEE
14	I-II-Sem	15A03201	Material Science and Engineering	MEC
15	I-II-Sem	15A03202	Material Science and Engineering Lab	MEC

#### 5. Annual/ semester/choice based credit system (programme wise):

The UG Program follow the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	B. Tech	Existing B Tech (CE, EEE, MECH, ECE, CSE)	Semester

#### 6. Participation of the department in the courses offered by other departments:

The Department of Science and Humanities is participating in courses offered by other departments are:

S.No	Semester	Course Code(subject)	Course Name(subject)	To Department
1	I-I Sem		Probability and Statistics	MBA, MCA
2	II-I Sem		Management Information System	MBA
3	I-I Sem		English Communications	MBA, MCA
4	II-I Sem	15A54301	Mathematics-III	ECE,EEE, CIVIL,MECH,CSE
5	II-II Sem	15A54401	Probability and Statistics	CIVIL,MECH,CSE
6	II-II Sem		Mathematics-IV	ECE,EEE,
7	III-I Sem		English Communications Lab	CIVIL,EEE, CSE
8	III-II Sem		English Communications Lab	MEC,ECE



7. Courses in collaboration with other universities, industries, foreign institutions, etc: NIL
8. Details of courses/programmes discontinued(if any) with reasons : NIL
9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).

Teaching Post	Under Graduate	
	Sanctioned	Filled
Professor	6	6
Associate Professor	12	12
Assistant Professor	30	30

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)

Faculty profile is as mentioned in the table below:

S.No	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
1	Dr G Pratibha	Thin films and micro battery applications	MSc,B.Ed, M Phill,Ph.D	Professor &HOD	18	NIL
2	Dr SK Rafi	Organic Chemistry	MSc, Ph.D,	Professor	14	NIL
3	Dr sai Kiran	PHYSICS	Ph.D	Professor	10	NIL
4	Dr Radha Madhavi	Mathematics	Ph.D	Professor	11	NIL
5	Dr Uma Ravi Sankar	Chemistry	Ph.D	Professor	13	NIL
6	Dr A Praveen Kumar	Physical Director	Ph.D	Physical Director	10	NIL

7	D.Vidyanadha Babu	Mathematics	MSC (Phd)	Assoc Professor		NIL
8	M Venkateswarlu	Statistics	MSc,M Phil	Assoc Professor	18	NIL
9	P Ramesh	Physics	MSc, M Phil	Assoc Professor	14	NIL
10	B Vishnumenon	English	MA	Assoc Professor	15	NIL
11	P Rami reddy	Mathematics	MSc	Assoc Professor	13	NIL
12	P .Nagur Meeraiah	Mathematics	MSc	Assoc Professor	12	NIL
13	A Manju Bhasini	English	MA	Assoc Professor	16	NIL
14	CH.Venugopal Reddy	Physics	MSc	Assoc Professor	13	NIL
15	M.Revathi	Physics	MSc	Assoc Professor	13	NIL
16	G.Balaji Singh	English	MA	Assoc Professor	10	NIL
17	K Nagendra babu	Mathematics	MSc,B.Ed	Assoc Professor	11	NIL
18	S Veeraghavareddy	Chemistry	MSc, B.Ed	Assoc Professor	10	NIL
19	A Bharanikumar	Chemistry	MSc	Asst Professor	08	NIL
20	A Suman	Mathematics	MSc	Asst.Prof .	7	NIL

21	T Madhu	English	MA, B.Ed	Asst Professor	6	NIL
22	P Saritha	English	MA, B.Ed	Asst Professor	5	NIL
23	M Apuroop Josph	English	MA	Asst Professor	2	NIL
24	S Srinivasulu Reddy	Physics	MSc	Asst Professor	9	NIL
25	K Suneel	Chemistry	MSc	Asst Professor	9	NIL
26	Y Kavitha	Mathematics	MSc	Asst Professor	3	NIL
27	B Naresh	Mathematics	MSc	Asst Professor	7	NIL
28	A.Madhu Sudan Rao	Chemistry	MSc	Asst Professor	8	NIL
29	M.Kalyani	Physics	MSc	Asst Professor	4	NIL
30	Sri.B.Subramanyam	Mathematics	MSc	Asst Professor	8	NIL
31	A .Vijay	Chemistry	MSc	Asst Professor	5	NIL
32	E.Srinivasulu	Chemistry	MSc	Asst Professor	5	NIL
33	Mr.T.Srikanth	Physics	MSc	Asst Professor	5	NIL
34	Mr.V.Ravi Kumar	English	MA	Asst Professor	6	NIL
35	Smt.M.	Physics	MSc	Asst	8	NIL

	Hymavathy			Professor		
36	S.Srinivasula Reddy	Chemistry	MSc	Asst Professor	5	NIL
37	V.Babu	Physics	MSc	Asst Professor	6	NIL
38	G.Sreenu	Chemistry	MSc	Asst Professor	6	NIL
39	Sri.P.Kamalakar	Mathematics	MSc	Asst Professor	8	NIL
40	S.NEERAJA	Mathematics	MSc	Asst Professor	8	NIL
41	G.Navooraiiah	Chemistry	MSc	Asst Professor	7	NIL
42	T.Bhavani	Physics	MSc	Asst Professor	4	NIL
43	S.Ravikumar	Chemistry	MSc	Asst Professor	5	NIL
44	K.Surekha	Chemistry	MSc	Asst Professor	5	NIL
45	B.Guru Maheswar	Mathematics	MSc	Asst Professor	8	NIL
46	D.Suresh	Chemistry	MSc	Asst Professor	6	NIL
47	A.Audi lakshmi	English	MA	Asst Professor	9	NIL
48	M.Mastan Rao	English	MA	Asst Professor	6	NIL

**11. List of senior visiting faculty:**

S.No	Name	Specialization	Qualification	Designation	Parent organization
1	Dr SM Ibrahim	Mathematics	Ph.D	Professor	Geetham University

2	Dr K Suneetha	English	Ph.D	Professor	Narayana Engg College
3	Dr K P Sarma	English	Ph.D	Professor	Audisankara Engg College, Gudur
4	Dr G Sivakumar	Mathematics	Ph.D	Professor	SSN Engg College, Ongole

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :NIL

13. Student Teacher Ratio(Programme-wise):

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	U G B.Tech – Science and Humanities	2015-16	720	48	15:1
2		2014-15	720	48	15:1
3		2013-14	720	48	15:1
4		2012-13	600	40	15:1
5		2011-12	480	32	15:1

14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	02	02
Lab Instructors	06	06
Assistants	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

S.No	Name	Specialization	Qualification
1	Dr G Pratibha	Thin films and micro battery applications	MSc,B.Ed,M Phill,Ph.D

2	Dr SK Rafi	Organic Chemistry	MSc, Ph.D,
3	Dr sai Kiran	PHYSICS	Ph.D
4	Dr Radha Madhavi	Mathematics	Ph.D
5	Dr Uma Ravi Sankar	Chemistry	Ph.D
6	Dr A Praveen Kumar	Physical Director	Ph.D
7	D.Vidyanadha Babu	Mathematics	MSC (Phd)
8	M Venkateswarlu	Statistics	MSc,M Phil
9	P Ramesh	Physics	MSc, M Phil
10	B Vishnumenon	English	MA
11	P Rami reddy	Mathematics	MSc
12	P .Nagur Meeraiah	Mathematics	MSc
13	A Manju Bhasini	English	MA
14	CH.Venugopal Reddy	Physics	MSc
15	M.Revathi	Physics	MSc
16	G.Balaji Singh	English	MA
17	K Nagendra babu	Mathematics	MSc,B.Ed
18	S Veeraghavareddy	Chemistry	MSc, B.Ed
19	A Bharanikumar	Chemistry	MSc
20	A Suman	Mathematics	MSc
21	T Madhu	English	MA, B.Ed
22	P Saritha	English	MA, B.Ed
23	M Apuroop Josph	English	MA

24	S Srinivasulu Reddy	Physics	MSc
25	K Suneel	Chemistry	MSc
26	Y Kavitha	Mathematics	MSc
27	B Naresh	Mathematics	MSc
28	A.Madhu Sudan Rao	Chemistry	MSc
29	M.Kalyani	Physics	MSc
30	Sri.B.Subramanyam	Mathematics	MSc
31	A .Vijay	Chemistry	MSc
32	E.Srinivasulu	Chemistry	MSc
33	Mr.T.Srikanth	Physics	MSc
34	Mr.V.Ravi Kumar	English	MA
35	Smt.M. Hymavathy	Physics	MSc
36	S.Srinivasula Reddy	Chemistry	MSc
37	V.Babu	Physics	MSc
38	G.Sreenu	Chemistry	M.Sc
39	Sri.P.Kamalakar	Mathematics	M.Sc
40	S. NEERAJA	Mathematics	M.Sc
41	G.Navooraiiah	Chemistry	M.Sc

42	T.Bhavani	Physics	MSc
43	S.Ravikumar	Chemistry	MSc
44	K.Surekha	Chemistry	MSc
45	B.Guru Maheswar	MatheMatics	MSc
46	D.Suresh	Chemistry	MSc
47	A.Audi lakshmi	English	MA
48	M.Mastan Rao	English	MA

**16. Number of faculty with ongoing projects from**

**a) National: NIL**

**b) International funding: NIL**

**17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received Research Centre/facility recognized by the University : NIL**

**18. Research center / facility recognized by the university. NIL**

**19. Publications:**

S.No	Name of the Faculty	No. of Publications
1	Dr G Prathiba	09
2	Dr SK Rafi	04
3	Dr Sai Kiran	02
4	Dr Radha Madhavi	04
5	Dr Uma Ravi Sankar	35
6	D.Vidyanadha Babu	05

- **Number of papers published in peer reviewed journals (national/international) by faculty and students.**

Total No. of papers published in International Journal: 47

Total No. of papers published in National Journal: 12



- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)
  - Monographs :NIL
  - Chapter in Books :NIL
  - Books Edited :NIL
  - Books with ISBN/ISSN numbers with details of publishers:NIL
  - Citation Index :NIL
  - SNIP :NIL
  - SJR :NIL
  - Impact factor :NIL
  - h-index :NIL
20. Areas of consultancy and income generated: NIL
21. Faculty as members in
- i) National committees: NIL
  - j) International Committees : NIL
22. Student projects:
- A) Percentage of students who have done in-house projects including inter-Departmental/Programming:NIL
  - B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: NIL
23. Awards / recognitions received by faculty and students: 01
24. List of eminent academicians and scientists/visitors to the department :

S.No	Discipline	Topic	Expert with company and designation	Dates
1	H&S	PERSONALITY DEVELOPMENT	Dr.T.MADHU PROFF.&HEAD ,S.V.COLEEGE OF ENGINEERING,TIRUPATI	10-08-2017
2	H&S	NANO TECHNOLOGY	Dr.K.SUJATHA PROFF.&HEAD ,BALAJI COLEEGE OF ENGINEERING,NELLORE	16-07-2016

3.	H&S	APPLICATIONS OF QUANTAM MECHANICS	Dr.M.SRINIVASULU PROFF.&HEAD ,SREE RAMA COLLEGE OF ENGINEERING,TIRUPATHI	12-02-2015
4	H&S	COMMUNICATION SKILLS	Dr.K.SUBRAHMANYAM PROFF.&HEAD ,QIS COLEEGE OF ENGINEERING,ONGOLE.	15-03-2014
5	H&S	APPLICATIONS OF QUEING THEORY	Dr.K.SUBASHINI PROFF.&HEAD ,AURORA COLEEGE OF ENGINEERING,HYD.	21-02-2013

**25. Seminars/Conferences/Workshops organized and the source of funding-**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
1.	Dr SM Ibrahim	Mathematics	Fluid mechanics	11-10-2013	PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY
2.	Dr K Suneetha	English	Soft Skills	13-10-2014	PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY
3.	Dr G Suryanarayana reddy	Physics	Solid State Physics	14-11-2015	PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY
4.	Dr G Siva kumar	Mathematics	Vector algebra	25-12-2016	PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY

**26. Student profile programme/ course wise:**

UG: Total intake is: 720

**27. Diversity of students:**

Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
B.TECH	2016-17	Admission through APSCHE	110	72	As per APSCHE norms
	2015-16		212	207	
	2014-15		56	57	
	2013-14		185	201	

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
B.Tech	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL
	2012-13	NIL	100%	NIL	NIL

**27. How many students have cleared national and state competitive Examinations such as NET, SLET, GATE, Civil services, Defence services, etc.:NA****29. Student progression: NIL****30. Details of Department level Infrastructural facilities****a. Library:**

- Total No. of Volumes: 68
- Journals: NIL
- Reports: NIL
- News Letters: NIL
- Syllabus: JNTUA
- Question papers: AVAILABLE

**b. Internet facilities for staff and students:**

The college has Internet connectivity of 22 Mbps leased line 12 (BSNL) + 10 Mbps OFC (Micronova) fibre enabled on connectivity. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 120 computers in different labs and exclusive labs for UG program.

**c. Laboratories:**

S.No	LAB NAME	SHARED/EXCLUSIVE	EQUIPED WITH
1	Engineering Physics Lab	EXCLUSIVE	As per Requirement
2	Engineering Chemistry Lab	EXCLUSIVE	As per Requirement
3	ELCS1 Lab	EXCLUSIVE	Systems:60 Projector:01
	ELCS1 Lab	EXCLUSIVE	Systems:60 Projector:01

d. **Class rooms with ICT facility:**

There are 9 class rooms in the department to conduct the lecture. All the class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
  - NPTEL teaching materials
  - Instructor material from the publisher
  - Student material from the publisher
- There are 4 class rooms in the department to conduct the lecture. All the class rooms are with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
N-101	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-103	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-104	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-105	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-106	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-107	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans

N-201	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans
N-202	I-B Tech	EXCLUSIVE		Black Board,Adequate number of Lights & Fans

**e. Laboratories:**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	Engineering Physics lab	Exclusive	Lab benches-06
2	Engineering Chemistry lab	Exclusive	Lab benches-08
3	English Language Communication skills lab	Exclusive	Computers :60 No.s

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	100% fee reimbursement	100% fee reimbursement	NIL	NIL	NIL
2	2013-14	100% fee reimbursement	100% fee reimbursement	NIL	NIL	NIL
3	2014-15	100% fee reimbursement	100% fee reimbursement	NIL	NIL	NIL
4	2015-16	100% fee reimbursement	100% fee reimbursement	NIL	NIL	NIL

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts NIL**

**Industrial Visit: NIL**

**33. Teaching methods adopted to improve student learning:**

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities**      NIL

**35. SWOC analysis of the department and Future plans**

**Strengths:**

- Wide ranging and multidisciplinary research
- Teams able to implement test environments
- Strong progression expertise and systemic thinking
- Good industry cooperation and networks, good ability to respond to new research needs
- One Centre of brilliance, one Strategic Centre for Science, Technology and Innovation and a number of doctoral programmes in the field.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs

- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes
- Research fields trimmed based on performance indicators

### Evaluation Report of the Department of Management Studies (MBA)

1. **Name of the Department:** Management Studies (MBA)
2. **Year of Establishment:** 2006
3. **Names of Programmes / Courses offered (PG)-MBA**

The following programs are offered in Management Studies

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	PG- Master of Business Administration (MBA) FINANCE,MARKETING,HR	2006	2006-07	60
			2013-14	120

#### 4. Name of Interdisciplinary courses and departments involved:

The list of interdisciplinary courses which are involved is mentioned in the table below:

Master of Business Administration(MBA)				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	I-I	14E00105	Business Statistics	H&S
2	I-I	14E00109	IT for Managers	CSE
3	I-II	14E00207	Management Information System	MCA
4	II-I	14E00320	Business Simulation Lab	CSE

#### 5. Annual/ semester/choice based credit system (programme wise):

The PG Program follows the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	PG	MBA	semester



**6. Participation of the department in the courses offered by other departments:**

The Department of Computer Science & Engineering is participating in courses offered by other departments are:

S.No	Course Name(subject)	Course Code(subject)	Semester	To Department
1	Managerial Economics and Financial Analysis,	15A52301 13A52501 9AHS401	2-1 /2-2/ 3-1/4-1	EEE, ECE, CSE, CIVIL, MECH
2	Management Science	13A52702	4-1	EEE, ECE, CSE
3	Accounting and Financial Management	9FHS103	1-1	MCA
4	Organizational Structure and Personnel Management	9FHS201	1-2	MCA

**7. Courses in collaboration with other universities, industries, foreign institutions, etc:** NIL**8. Details of courses/programmes discontinued (if any) with reasons :-** NIL**9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).**

Teaching Post	post Graduate	
	Sanctioned	Filled
Professor	2	2
Associate Professor	4	4
Assistant Professor	10	10

**10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)**

Faculty profile is as mentioned in the table below:

S.No.	Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	DR. T .RAVINDRA REDDY	MBA.,MCOM MPhil, Ph.D.	Professor	Finance/ Marketing	19	Nil
2	DR.P.CHAKRAPANI	M.B.A, Ph.D	Professor	Finance/ Marketing	10	Nil
3	MR. MOHAN SINGH	M.Com.,M.B.A.,	Assoc. Professor	Finance	20	Nil
4	MR.Y.K. KISHORE REDDY	M.B.A	Assoc. Professor	Marketing	17	Nil
5	MR.M.RAJANI KUMAR	M.B.A	Assoct.Professor	Marketing / Hr	09	Nil
6	MRS.SK.MAHAMOODA	M.B.A	Assoct.Professor	Marketing / Hr	07	Nil
7	MR.N.SIVA KUMAR	M.B.A	Asst.Professor	Finance	03	Nil
8	MRS.P.GUNASEELA DEVI	M.B.A	Asst.Professor	HR	03	Nil
9	MR. A. VENKATESWARL	M.B.A	Asst.Professor	Finance	10	Nil
10	V. VIJAYALAKSHMI	M.B.A	Asst.Professor	HR	08	Nil
11	T PRAVEENA	M.B.A	Asst.Professor	Marketing	03	Nil
12	K. PRAVEENA	M.B.A	Asst.Professor	HR	02	Nil
13	B. KISHORE	M.B.A	Asst.Professor	Finance	03	Nil
14	SK.AREEFA,	M.B.A	Asst.Professor	HR	02	Nil
15	K. VENKATA RAMANAMMA	M.B.A	Asst.Professor	HR	02	Nil
16	K. VENKATESWRLU	M.B.A	Asst.Professor	HR	02	Nil

**11. List of senior visiting faculty:**

S.No	Name	Specialization	Qualification	Designation	Parent organization
1	Dr.N.R.V.Ramana Reddy, Professor	MBA	PhD	PROFESSOR	Simhapuri University
2	Dr.K.Rajesh Kumar, Professor	MBA	PhD	PROFESSOR	AMC Engg college,Bangalore
3	Dr.N.Rajyalakshmi	MBA	PhD	PROFESSOR	Andhra University, Visakhapatnam
4	Dr.R.Leelambeswara Sing,Professor	MBA	PhD	PROFESSOR	St.Johns College of Engg&Tech,Yemmiganur,Kurnool

**24. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL****25. Student Teacher Ratio (Programme-wise):**

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	P G (MBA)	2016-17	240	16	15:1
2		2015-16	240	16	15:1
3		2014-15	240	16	15:1
4		2013-14	180	12	15:1
5		2012-13	120	09	15:1

**14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	02	02
Lab Instructors	02	02
Assistants	01	01

## 15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG .

S.No.	Name	Specialization	Qualification
1	DR. T .RAVINDRA REDDY	Finance/ Marketing	MBA.,MCOM. MPhil.,Ph.D.,
2	DR.P.CHAKRAPANI	Finance/ Marketing	M.B.A, Ph.D
3	MR. MOHAN SING	Marketing	M.Com.,M.B.A.,
4	MR.Y.K. KISHORE REDDY	Marketing/ HR	M.B.A
5	MR.M.RAJANI KUMAR	Marketing/ HR	M.B.A
6	MRS.SK.MAHAMOODA	Finance/ HR	M.B.A
7	MR.N.SIVA KUMAR	Finance/ Systems	M.B.A
8	MRS.P.GUNASEELA DEVI	HR	M.B.A
9	MR. A. VENKATESWARLU	Finance/ Marketing	M.B.A
10	V. VIJAYALAKSHMI	HR	M.B.A
11	T PRAVEENA	HR	M.B.A
12	K. PRAVEENA	HR	M.B.A
13	B. KISHORE	Finance/ Marketing	M.B.A
14	SK.AREEFA,	Finance/ HR	M.B.A
15	K. VENKATA RAMANAMMA	Marketing/ Finance	M.B.A
16	K .VENKATESWRLU	Marketing	M.B.A

## 16. Number of faculty with ongoing projects from

a) National: NIL

b) International funding: NIL

## 17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received Research Centre/facility recognized by the University:-NIL

18. Research center / facility recognized by the university. NIL

19. Publications:

S.No.	Name	No. of Publications
1	Dr. T .RAVINDRA REDDY	10
2	Dr.P.CHAKRAPANI	06
3	Mr. Mohan Sing	00
4	Mr.Y.K. KISHORE REDDY	00
5	Mr.M.RAJANI KUMAR	00
6	Mrs.SK.MAHAMOODA	00
7	Mr.N.Siva Kumar	00
8	Mrs.P.Gunaseela devi	00
9	Mr. A. Venkateswarlu	02
10	V. Vijayalakshmi	00
11	T Praveena	00
12	K. Praveena	00
13	B. Kishore	00
14	Sk.Areefa,	00
15	K. Venkata ramanamma	00
16	K .Venkateswrlu	00

- Number of papers published in peer reviewed journals (national/ international) by faculty and students.

Total No. of papers published in International Journal: 07

Total No. of papers published in National Journal: 11

- **Number of publications listed in International Database (For Eg: EIJMMS, International Journal of Business Management, Sankya International Journal of management etc.)**
- **Monographs** -----Nil
- **Chapter in Books** -----Nil
- **Books Edited** -----Nil
- **Books with ISBN/ISSN numbers with details of publishers** -----One

<b>Title</b>	<b>Author</b>	<b>Publisher</b>
Indian consumer attitude towards SMS advertising	Dr.T.Ravindra Reddy Dr.N.Rajyalakshmi	Lambard Publication, Germany, ISBN-978-3-659-39776-9

- **Citation Index** -----Nil
- **SNIP** -----Nil
- **SJR** -----Nil

**20. Areas of consultancy and income generated:** ----Nil

- **Financial solutions**
- **Marketing salutations**
- **HR solutions**

**21. Faculty as members in**

- k) **National committees:** -Nil
- l) **International Committees :** -Nil

**22. Student projects:**

A)Percentage of students who have done in-house projects including inter-Departmental/Programming:100%

<b>S NO</b>	<b>Academic Year</b>	<b>No of In-House Projects</b>
1	2016-17	100%
1	2015-16	100%
2	2014-15	100%
3	2013-14	100%
4	2012-13	100%

b)Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: -----

### 23. Awards / recognitions received by faculty and students-----

#### (a) Faculty activities/ achievements

##### a. Research publications in international journals

S. no.	Name of the author	Title of the paper	Name of the journal and issue date
1	Dr.T.Ravindra Reddy	A Study on Indian Consumers Attitude towards Incentivised SMS Advertising through Mobile Phones	<i>Excel International Journal of Multidisciplinary Management Studies</i> (EIJMMS) - ISSN No-2249-8834., Voume-2, Issue-4, April, 2012. Zenith International Research & Academic Foundation (ZIRAF), Haryana.
2	Dr.T.Ravindra Reddy	A study on Indian Consumer's Attitude towards SMS Advertising through Mobile Phones"	<i>Inter National Journal of Business Management</i> , Volume 1, Issue 1, December 2011, ISSN No- 2231-5470. A Journal of International Repute by Centre for Promotion of Multidisciplinary Research (CPMR), New Delhi.
3	Dr.T.Ravindra Reddy	Consumers' attitude towards SMS advertising A study in Nellore City, A.P. India"	Gitam Journal of Management, Visakhapatnam, Apl-June, 2015 Issue.
4	Dr.T.Ravindra Reddy	Consumers' attitude towards SMS advertising In Nellore City, A.P. A Factor Analysis approach	Gitam Journal of Management, Visakhapatnam, Jan-Mar, 2015 Issue.
5	Dr.T.Ravindra Reddy	Impact of Microfinance on Socio Economic Empowerment of Rural	Journal of Organisational Management, Palaghat Management Association,
6	Dr.T.Ravindra Reddy	Consmuers' attitude towards Incentivised SMS advertising In Nellore Town, A.P.",	Journal of Organisational Management, Palaghat Management Association, Palakkad, Kerala, Oct-Dec, 2013 Issue.
7	Dr.T.Ravindra Reddy	Factors Affecting Consumer Behaviour About Non-Durable Products: A Study Of Urban And Rural Consumers'	Journal of Organisational Management Palaghat Management Association, Palakkad, Kerala, Apr-June

8	Dr.T.Ravindra Reddy	Employee and Internal Marketing Success or Failure of Product”,	Indian Economic Panorama, New Delhi, Vol-20, and No: 1, April, 2010.
9	Dr.T.Ravindra Reddy	Outsourcing world – recent Scenario	Indian Economic Panorama, New Delhi, Vol: 19, No.4, Jan 2010.
10	Dr.T.Ravindra Reddy	“Emerging Trends in Micro Finance- A New Strategy for Eradication of Poverty	Indian Economic Panorama, New Delhi, Vol: 19, No.3A, Dec 2009.
11	Dr.P.Chakrapani	Key Drives Influencing Purchasing Behaviour in Organized Retail Outlets	Global Journal for Research Analysis, Vol.-5, issue 10, October-2016, ISSN No. 2277-8160
12	Dr.P.Chakrapani	An Empirical Study on Customer’s Attitude Towards Organized Retail Formats in Nellore District, Andhra	Asia pacific jornal of research in business management, Vol. 7, issue 11, November 2016 impact factor:4.859,
13	Dr.P.Chakrapani	Customer perception towards-organized Retail outlets, nellore	M-Infinite journal of management, Chennai Vol. 16, issue 1, pg. 1-5, June 2015,
14	Dr.P.Chakrapani	Customer satisfaction about retailing in india - A study with particular reference to selected retail outlet in	Sankya International Journal of management and technology, issue 2, Vol.3, pg:67-76, Dec 2012,
15	Dr.P.Chakrapani	Factors affecting Customer satisfaction-Retail outlets nellore	M-Infinite journal, Chennai
16	Dr.P.Chakrapani	Emerging Trends in Micro Finance- A New Strategy for Eradication of Poverty	Indian Economic Panorama, New Delhi, Vol: 19, No.3A, Dec 2009.
17	Mr.A.Venkateswarlu	Trend analysis of NIFTY in 2015: A technical view	Global Journal for Research Analysis, Vol.-4, issue 8, Aug 2015, ISSN No. 2277-8160
18	Mr.A.Venkateswarlu	Competitive and innovative promotional tools used by toothpaste companies for rural market &its impact on	Journal of Arts, Science & Commerce, Vol.– III, Issue–3(2),July. 2012 [82]



## b. Research publications in conferences

S. no.	Name of the author	Title of the paper	Name of the conferences,
1	Dr.T.Ravindra Reddy	Consumer behavior towards retail outlets with particular reference to Nellore city,AP.	Dept of Commerce, S.V.University, Tirupati, A.P.22-23, 2014
2	Dr.T.Ravindra Reddy	Incentivized Mobile advertising and Consumers Attitude	Dept of Management, S.K.University, Anathapur, A.P.29-30, 2015
3	Dr.T.Ravindra Reddy	Micro Finance on socio economic empowerment of rural women in chittoor rural	Dept of Commerce, S.V.University, Tirupati, A.P.22-23, March-2014.
4	Dr.T.Ravindra Reddy	Quality Management in Indian Higher Education-Application of Deming's principles	Dept of Business Management, Yogi Vemana University, Kadapa, A.P 21 <sup>st</sup> -22 <sup>nd</sup> Feb,2014
5	Dr.T.Ravindra Reddy	Micro Finance on Socio-Economic Empowerment of Rural Women-A Comparative Study of Tribal and	Dept of Sociology and Social Work, Acharya Nagarjuna University,
6	Dr.P.Chakrapani	Customer Behavior Towards Retail Outlets with Particular Reference to Nellore City, Andhra Pradesh	S.V University , Tirupati. ISSNB-978-93-80509-84-6.
7	Dr.P.Chakrapani	Strategies to survive recession in retail sector	School of management studies, JNTU, Hyderabad, Aug 13-14, 2013.
8	Dr.P.Chakrapani	360 degree appraisal	Dept of Management,Andhra University, Visakhapatnam
9	Dr.P.Chakrapani	The retail sector in India: past and present scenario	Department of business administration, annamalai university, 10 <sup>th</sup> march 2011.
10	Mrs. V.Vijaya Lakshmi	Ethics & Csr perspective of Indian corporate culture	Asian Management Science Association, Sep, 22 <sup>nd</sup> -23 <sup>rd</sup> -2011

## (c) Prizes/ awards received by the students

Academic Year :2016-17						
S.No	Name of the Student	Roll Number	Paper/poster/mini project presentations etc.	Venue	Date	Prizes won if any
1	A. Harish Reddy	15R61E0001	National Seminar	RSR Engg. College, Kavali.	25-March-2017	Second

Academic Year :2015-16						
S.No	Name of the Student	Roll Number	Paper/poster/mini project presentations etc.	Venue	Date	Prizes won if any
1	A. Harish Reddy	15R61E0001	National Seminar	SV University	22-23 <sup>rd</sup> march 2016	Presented a paper

Academic Year :2014-15						
S. No	Name of the Student	Roll Number	Paper/poster /mini project presentations etc.	Venue	Date	Prizes won if any
1	Sk.Ab dul Ramiz	13R61E0034	Pranava -2015	Narayana Engg College,nellore	14 <sup>th</sup> March,2015	Thir d

1	SK.Ab dul Ramiz	13R61E 0034	Prathibha Award By A.P.Govt	S.V.University.T irupati	14-11- 2015	Prath ibha Awa rd
2.						
3	P.Anu sha	13R61E 0026	Prathibha Award By A.P.Govt	S.V.University.T irupati	14-11- 2015	

## Academic Year :2013-14

S.No	Name of the Student	Roll Number	Paper/poster/ mini project presentations	Venue	Date	Prizes won if any
1	Sunina Sultana	12R61E0 042	Prathibha Award	Andhra University	2 <sup>nd</sup> April,2 015	-----

## 24. List of eminent academicians and scientists/visitors to the department :

S.No	Discipline	Topic	Expert with company and designation	Date
1	Marketing	Developments in E-commerce	Dr.C.N.Krishna Naik, Professor, SKU.	24-01-2017
2	Economics	Entrepreneurship	Dr.N.R.V.Ramana Reddy Professor, simhapuri university	14-8-2016
3	Finance	Economic policies	Dr.K.Ramakrishna reddy, Professor, S.K,University,Ananthapur	12-03-2015
4	Finance	Risk and Insurance	Mr.G.Gurumurthy, Sr.Manager, Reliancelife insurance, Nandyal Division,Kurnool(D.T)	23-09-2014
5	Finance	Banking	Saravanan laxmanan, SEBI, Educational Trainer, Banagalore	14-09-2013

**25. Seminars/Conferences/Workshops organized and the source of funding**

S.N O	Name Of The Resource Person	Title	Area Of The Topic	Date	Funding Agency
<b>ACEDAMIC YEAR::2013-14</b>					
3.	Dr.Saravanam laxmanan	Business outsourcing in India	General management	06-03- 2014	
4.	Dr.K.Rajesh Kumar	HR-Practices	HR	29-11- 2013	Priyadarshin i educational society
<b>ACEDAMIC YEAR::2014-15</b>					
5	Dr.N.R. V.Ramana Reddy	Entrepreneurship	General management	22-12- 2014	Priyadarshin i educational society
6	Dr.Leelambeswara Singh	Rural market in india	Marketing	11-2- 2015	Priyadarshin i educational society
<b>ACEDAMIC YEAR::2015-16</b>					
7	Dr.Sharma	Professional Ethics	General management	12-9- 2015	Priyadarshin i educational society
	Dr.C.N.Krishna Naik	Developments in E-commerce	Marketing	28-01- 2016	Priyadarshin i educational society
<b>ACEDAMIC YEAR::2016-17</b>					
8	Dr.N.R. V.Ramana Reddy	Financial management practices	finance	20-12- 2016	Priyadarshin i educational society
	Dr.K.Rajesh Kumar	pros and cons of Demonetization	Finance	10-02- 2017	Priyadarshin i educational society

**26. Student profile programme/ course wise:**

PG: Total intake is: 120

Name of the Course	Academic Year	Application Received	Pass percentage
PG (MBA)	2014-16	APICET	100
	2013-15		84.70
	2012-14		86.27
	2011-13		77.58

**27. Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
PG (MBA)	2016-17	NIL	100%	NIL	NIL
	2015-16	NIL	100%	NIL	NIL
	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

EAXM	2015-16	2014-15	2013-14	2012-13	2011-12
<b>GATE</b>	NA	NA	NA	NA	NA
<b>CIVIL SERVICES</b>	Nil	Nil	Nil	Nil	Nil

**28. Student progression:**

Student Progression	No.of Students				
	2015-16	2014-15	2013-14	2012-13	2011-12
PG- Ph.D	NIL	NIL	NIL	NIL	NIL

**30. Details of Department level Infrastructural facilities**

## a) Library:

Dept of Management Studies	<b>Books/Journals</b>
No. of Volumes Available	<b>223</b>
No. of Titles Available	<b>103</b>
National Journal	<b>3</b>
International Journals	<b>01</b>

## b) Internet facilities for staff and students:

The college has Internet connectivity of 22 Mbps leased line 12 (BSNL) + 10 Mbps OFC (Micronova) fibre enabled on connectivity. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 120 computers in different labs and exclusive labs for PG program.

## c) Class rooms with ICT facility:

There are 4 class rooms in the department to conduct the lecture. All the class rooms are with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
NH-304	I MBA	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
NH-305	II MBA	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
NH-306	II MBA	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans
NH-307	II MBA	EXCLUSIVE	75	Black Board, Adequate number of Lights & Fans

## d) Laboratories:

**LAB Infrastructure**

**Number of Computers with Configuration****LAB 1: No of Computers: 60**

Processor: Pentium-4  
 HDD: 80GB  
 RAM: 1GB  
 Monitor: 18.5 CRT  
 Keyboard: Multimedia  
 Mouse: Optical

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	100% fee reimbursement	100% fee reimbursement	--	--	--
2	2013-14	100% fee reimbursement	100% fee reimbursement	--	--	--
3	2014-15	100% fee reimbursement	100% fee reimbursement	--	--	--
4	2015-16	100% fee reimbursement	100% fee reimbursement	--	--	--
4	2016-17	100% fee reimbursement	100% fee reimbursement	---	--	---

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

S.No	Topic	Date	Guest name / Resource person
1	GST	16-03-2017	Dr.N.R.V.Ramana Reddy
2	Consumer behavior	19-12-2016	Dr.C.N.Krishna Naik
3	Indian economy	25-01-2016	Dr.N.R.V.Ramana Reddy
4	Entrepreneurship	22-09-2015	Dr.K.Rajesh Kumar
5	Financial inclusion	11-2-2015	Dr.Saravanam laxmanan
6	Business leader	22-12-2014	Dr.K.Rajesh Kumar

7	360 degree evaluation	06-03-014	Dr. P.Subaiah
8	Business communication	29-11-013	Dr.Leelambeswara singh

**Industrial Visit:** \_\_\_\_\_

S.No	Name of the Company	No of Students	Date
1	NIPPO Batteries(Indonational Ltd),Tada,Sullurpet,A.P	60	11-03-2017
2	HCB Pvt Ltd (Cocacola),Srikhalahasti,A.P	23	26-11-2016
3	HCB Pvt Ltd (Cocacola),Srikhalahasti	50	6-02-2016
4	NIPPO Batteries(Indonational Ltd), Tada,Sullurpet,A.P	55	14-03-2015

**33. Teaching methods adopted to improve student learning:**

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.  
Learning Management System

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.
- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

**34. Participation in Institutional Social Responsibility (ISR) and Extension Activities**

Celebrated International women's day, National festivals, NSS activities

**35. SWOC analysis of the department and Future plans**

**Strength:**

- Imparting soft skills and communication skills.
- Case study oriented lecturers.



- Guest lectures by Faculty and Professionals.
- Audiovisual classes- to gain the information regarding Student Association Programmes like G.D's, seminars, workshops etc.,
- Active Research in the areas of finance, marketing and Human Resource.

**Weaknesses:**

- Thin on cultural/ racial/ethnic diversity
- Lack of resources to research

**Opportunities:**

- Industry Institute Interaction facility
- Placements
- Other abusiness Opportunities

**Challenges:**

- Inadequacy of funds

### Evaluation Report of the Department of Computer Applications

1. **Name of the Department:** Department of Computer Applications
2. **Year of Establishment:** 2006
3. **Names of Programmes / Courses offered ( PG)**

The following programs are offered in the Electronics and Communication Engineering department.

S.No	Name of the Program	Establishment Year	Academic Year	Intake
1	<b>Degree:</b> Master of Computer Applications <b>Discipline:</b> Computer Applications	2006	2006-07	60
			2013-14	120

4. **Name of Interdisciplinary courses and departments involved:**

The list of interdisciplinary courses which are common to various departments is mentioned in the table below:

M.C.A				
S.No	Year / Sem	Subject code	Name of the subject	Department
1	I Sem	9FBS101	Probability & Statistics	Humanities
2	I Sem	9FHS102	English Language Communication Skills	Humanities
3	I Sem	9FHS103	Accounting & Financial Management	Business Administration
4	I Sem	9F00104	Mathematical Foundation in Computer Science	Business Administration
5	II Sem	9FHS201	Organizational Structure & Personal Management	Humanities
6	II Sem	9F00205	Operations Research	Humanities

5. **Annual/ semester/choice based credit system (programmewise):**

The UG Program follow the Jawaharlal Nehru Technological University Anantapur (JNTUA) guidelines with percentage based semester system.

S.No	Degree	Courses offered	System followed
1	M.C.A	Master of Computer Applications	semester

**6. Participation of the department in the courses offered by other departments:**

The Department of Computer Applications is participating in courses offered by other departments are:

S.No	Semester	Course Code(subject)	Course Name(subject)	To Department
1.	II Semester	14E00207	Management Information Systems	MBA

**7. Courses in collaboration with other universities, industries, foreign institutions, etc: Nil**

**8. Details of courses/programmes discontinued(if any) with reasons :NIL**

**9. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors / Asst. Professors).**

Teaching Post	Post Graduate	
	Sanctioned	Filled
Professor	3	0
Associate Professor	5	5
Assistant Professor	16	19

**10. Faculty profile with name, qualification, designation, specialization (D.Sc. / D.Litt. /Ph.D./M.Phil., etc.)**

Faculty profile is as mentioned in the table below:

S.No	Name	Specialization	Qualification	Designation	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
1	N. Chandrakanth	Computer Applications	MCA	Associate Professor	16	0
2	A. Umakanth	Computer Science	M.Tech , M.Sc(C .S.)	Associate Professor	20	0

3.	P. Nagababu	Computer Applications	MCA, M.Tech	Associate Professor	15	0
4.	R. Dharani Kumar	Computer Applications	MCA	Associate Professor	12	0
5.	N. Lokesh Narayana	Computer Applications	MCA	Associate Professor	4	0
6.	P. Rambabu	Computer Applications	MCA	Assistant Professor	4	0
7.	G. Krishna Prasad	Computer Applications	MCA	Assistant Professor	6	0
8.	Ch. Kalyan Kumar	Computer Applications	MCA	Assistant Professor	6	0
9.	M. Rajesh	Computer Applications	MCA	Assistant Professor	6	0
10.	G. Partha Saradhi	Computer Applications	MCA	Assistant Professor	6	0
11.	V. Jaya Chandra	Computer Applications	MCA	Assistant Professor	12	0
12.	Ch. Bhavani	Computer Applications	MCA	Assistant Professor	5	0
13.	R. Jaya Kumar	Computer Applications	MCA	Assistant Professor	5	0
14.	K. Madhu	Computer Applications	MCA	Assistant Professor	5	0
15.	N. Ayappa	Computer Applications	MCA	Assistant Professor	5	0
16.	M. Ragavulu	Computer Applications	MCA	Assistant Professor	6	0
17.	T. Srinivasulu	Computer Applications	MCA	Assistant Professor	4	0
18.	G. Durga Prasad	Computer Applications	MCA	Assistant Professor	4	0

19.	T. Naga Jagadeesh	Computer Applications	MCA	Assistant Professor	4	0
20.	K. Mahesh	Computer Applications	MCA	Assistant Professor	4	0
21.	R. Siva Shankar	Computer Applications	MCA	Assistant Professor	6	0
22.	K. Sujith Kumar	Computer Applications	MCA	Assistant Professor	6	0
23.	R. Vijay Kumar	Computer Applications	MCA	Assistant Professor	6	0
24.	D. Subba Reddy	Computer Applications	MCA	Assistant Professor	6	0

**11. List of senior visiting faculty: NIL**

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL**

**13. Student Teacher Ratio(Programme-wise):**

Student Teacher ratio Programme wise has been mentioned in the table below:

S.No	Programme	Year	No. of Students	No. of Teachers	Student Teacher ratio
1	P G-MCA	2013-14	240	20	15:1
2		2014-15	300	22	15:1
3		2015-16	360	24	15:1
4		2016-17	360	24	15:1

**14. Number of academic support staff (Technical) and administrative staff: sanctioned and filled.**

The below given table gives the cadre wise structure of academic support:

	Sanctioned	Filled
Administrative staff	1	1
Lab Instructors	3	3
Assistants	2	2

**15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.**

S.No	Name	Qualification
1	N. Chandrakanth	MCA
2	A. Umakanth	M.Tech, M.Sc(C.S.)
3.	P. Nagababu	MCA, M.Tech
4.	R. Dharani Kumar	MCA
5.	N. Lokesh Narayana	MCA
6.	P. Rambabu	MCA
7.	G. Krishna Prasad	MCA
8.	Ch. Kalyan Kumar	MCA
9.	M. Rajesh	MCA
10.	G. Partha Saradhi	MCA
11.	V. Jaya Chandra	MCA
12.	Ch. Bhavani	MCA
13.	R. Jaya Kumar	MCA
14.	K. Madhu	MCA
15.	N. Ayappa	MCA
16.	M. Ragavulu	MCA
17.	T. Srinivasulu	MCA
18.	G. Durga Prasad	MCA
19.	T. Naga Jagadeesh	MCA
20.	K. Mahesh	MCA
21.	R. Siva Shankar	MCA
22.	K. Sujith Kumar	MCA
23.	R. Vijay Kumar	MCA
24.	D. Subba Reddy	MCA

**16. Number of faculty with ongoing projects from**

- a) National: NIL  
b) International funding: NIL

17. Departmental projects funded by DST-FIST; DBT, ICSSR, etc. and total grants received Research Centre/facility recognized by the University :NIL  
18. Research center / facility recognized by the university:NIL  
19. Publications:

S.No	Name of the Faculty	No. of Publications
Nil		

- Number of papers published in peer reviewed journals (national/international) by faculty and students.

Total No. of papers published in International Journal: 0

Total No. of papers published in National Journal:0

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

- Monographs : NIL
- Chapter in Books :NIL
- Books Edited :NIL
- Books with ISBN/ISSN numbers with details of publishers :
- Citation Index : NIL
- SNIP : NIL
- SJR : NIL
- Impact factor : NIL
- h-index : NIL

20. Areas of consultancy and income generated: NIL

21. Faculty as members in  
National committees: NIL  
International Committees :NIL

22. Student projects:

A)Percentage of students who have done in-house projects including inter-Departmental/Programming: NA

B) Percentage of students placed for projects in organizations outside the institutions i.e., Research Laboratories/Industry/Other Agencies.: 100%

23. Awards / recognitions received by faculty and students:NIL

24. List of eminent academicians and scientists/visitors to the department :

S.No	Discipline	Topic	Expert with company and designation	Academic Year	Dates
1	MCA	Research Trends In Data Mining	R.Ramesh Assist Prof,VIT,Vellore.	2016-2017	22-09-2016
2	MCA	Data mining tool WEKA	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.		28-08-2016
3	MCA	“BEx Web Integration in SAP Business Intelligence	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT,Vellore		11-09-2016
4	MCA	AUTOMATION OF SOFTWARE TESTING	Dr. A.SURESH BABU JNTUA,ANANTAPUR.	2015-2016	21-07-2015
5	MCA	Foundations of Business Intelligence: Databases And Information Management	Dr.C.H.Pradeep Reddy, Assoc.Prof,VIT,Vellore		01-09-2015
6	MCA	Research Perspectives and Challenges in Database Security and Privacy	Dr.Pavan Kumar,Central University,Hyderabad		11-02-2015
7	MCA	Web programming with PHP	Dr.C.H.Pradeep Reddy, Assoc.Prof,VIT,Vellore	2014-2015	16-10-2014
8	MCA	Real World & Practical Exposure of SAP	R.Ramesh Assist Prof,VIT,Vellore.		14-8-2014
9	MCA	Data mining techniques.	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.		16-9-2014



10	MCA	Mobile adhoc networks	Dr. P.Venkata Krishna Assoc.Prof,Vit,Vellore	2013-2014	12-7-2013
11	MCA	Wireless networks	Dr. A.Suresh Babu Jntua,Anantapur.		23-9-2013
12	MCA	SQL Server integration and Reporting Service	Dr. V Suresh Babu Sreevidyanikethan Engg College, Tirupati		13-8-2013
13	MCA	Latest trends in mobile computing	Dr.Pavan Kumar,Central University,Hyderabad.	2012-2013	12-2-2013
14	MCA	Knowledge Mining Using SPSS Modeller and Weka	Dr.K Venugopal Rao Gnits,Hyderabad		12-9-2012
15	MCA	“NETWORK SIMULATION USING NS2”	J K Swapna Project Leader,Infisys,Chennai.		16-10-2012

## 25. Seminars/Conferences/Workshops organized and the source of funding

### Seminars organized

S.N O	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	Mr. A. Chandra, Sri vidyanikethan	Networks	Network Simulators	02-05-2015	PCET
2	Dr. R. Md. Shafi, MITS	Security	WCF Application Development	06-08-2016	PCET
3	Dr.Raj kumar, VITS	UNIX	Embedded Linux and Kernal Construction	09-09-2016	PCET
4	Dr.Manoj	Security	Seminar on Android Applications and Security	03-01-2017	PCET
<b>Academic year 2015-16</b>					
5	Dr. A.SURESH BABU	Data mining	Research Trends In Data Mining	13-10-2015	PCET

	JNTUA,ANANTA PUR.				
6	Dr.C.H.Pradeep Reddy,Assoc.Prof, VIT,Vellore	Data mining	Data mining tool WEKA	14-8-2015	PCET
7	Dr.Pavan Kumar,Central University,Hyderab ad	Data mining	“BEx Web Integration in SAP Business Intelligence	16-9-2015	PCET
8	R.Ramesh Assist Prof,VIT,Vellore.	Data mining	Foundations of Business Intelligence: Databases And Information Management	03-09-2015	PCET
9	Dr. A.SURESH BABU JNTUA,ANANTA PUR.	Data mining	Research Trends In Data Mining	13-10-2015	PCET
10	Dr.C.H.Pradeep Reddy,Assoc.Prof, VIT,Vellore	Data mining	Data mining tool WEKA	14-8-2015	PCET
<b>Academic year 2014-15</b>					
11	Dr.C.H.Pradeep Reddy,Assoc.Prof, VIT,Vellore	TESTING	AUTOMATION OF SOFTWARE TESTING	12-07-2014	PCET
12	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.	Networks	A Two-Day National Level FDP on “Research Perspectives and Challenges in Database Security and Privacy”	23-8-2014	PCET
13	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.	Networks	Latest trends in mobile computing	12-6-2015	PCET
14	Prof. D.Jatin Das VITS	Robotics	Artificial Intelligence	06-01-2015	PCET
<b>Academic year 2013-14</b>					
15	R.Ramesh Assist	Networks	Wireless Networks	21-07-13	PCET,Nell

	Prof,VIT,Vellore.			TO 22-07-13	ore
16	Dr.M.N.RAO Professor& Head Swarna Andhra College Of Engg ,Narasapur.	Networks	Wireless sensor networks	01-09-13 TO 03-09-13	PCET
17	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT,Vel lore	Data mining	SQL Server &DB2	11-02-14 TO 13-02-14	PCET
18	Dr. P.VENKATA KRISHNA Assoc.Prof,VIT,Vel lore	PHP	Web programming with PHP	12-2-2014	PCET
<b>Academic year 2012-13</b>					
19	Dr. V SURESH BABU Sreevidyanikethan Engg College, Tirupati	Data mining	Data mining techniques.	12-03-13 TO 13-03-13	PCET
20	Mr. A. Srinivasulu, VITS	Cloud	Cloud Computing	09-09-2012	PCET
21	Ms. B. Padmaja, JNTUH	Data mining	Data Mining Techniques through WEKA	10-12-2013	PCET
22	Dr. V. Prasad, MITS	Networks	Advances in Information, Communication and Networking Technologies	18-05-2012	PCET

**Conferences organized**

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Funding Agency
<b>Academic year 2016-17</b>					
1	L.Karthikeya, SVCET	Security	Security using Quantum key Distribution	7-8-16	PCET

			Protocols(QKDPs)		
2	M. Pavan Kumar, JNTUH	Clustering	Curse of dimensionality for adaptive cluster distance bounding in high dimensional indexing	5-12-16	PCET
<b>Academic year 2015-16</b>					
3	T NPrasad	Security	A Survey on DDoS detection and Sampling Techniques	17-03-2016	PCET
4	Mr. B. Narendra Kumar Rao	Networks	A Survey on Adaptive Techniques	16-09-2015	PCET
<b>Academic year 2014-15</b>					
5	V.Ramesh, Dr.P.Subbaiah	Adhoc networks	Preemptive Ad hoc On demand Multipath Distance Vector Routing for MANET	21-07-2014	PCET
6	V.Ramesh, Dr.P.Subbaiah, N.Koteswar Rao,	Routing	Scenario- based performance evaluation of AODV Routing protocol for MANET	29-11-2014	PCET
<b>Academic year 2013-14</b>					
7	P. Lakshmi Samyuktha SVEC,Tirupati	Security	A Survey report on Secured Biometric Recognition methods	20-01-2014	PCET
8	C. Bhuvana SVEC,Tirupati	Networks	A Survey on VOIP architecture and QOS for VOIP applications	05-01-2013	PCET
<b>Academic year 2012-13</b>					

9	K.Gayathri, NBKR	Networks	IP Traceback for Flooding attacks on Internet Threat Monitors (ITM) Using Entropy Variations through Honeypots	9-8-12	PCET
10	M.Kalyani, Sri venkateswara University	Web Technology	Web caching and Response Time operation based Erickson method using Program	5-03-13	PCET

### Workshops organized

S.NO	Name Of The Resource Person	Area Of The Topic	Title	Date	Fundi ng Agenc y
<b>Academic year 2016-17</b>					
1	K.Varshini SVEC,Tirupati	Routers	NNSC, Project Based Industrial Training on live CISCO Routers & Switches Web Security	14-01-2016	PCET
2	Ravi.A, Malineni Lakshmaiah engineering college	Web technology	Web Security	28-11-06	PCET
<b>Academic year 2015-16</b>					
3	Dr.K Venugopal Rao GNITS,HYDERABAD	Networks	Wireless Mesh networks	11-02-16 TO 13-02-16	PCET
4	R.Ramesh Assist Prof,VIT,Vellore.	Data mining	SQL Server integration and Reporting Service	11-7-2015	PCET
<b>Academic year 2014-15</b>					
5	Mr. Himalaya Lekha, IBNC	Cloud	Big data &Haddop	07-02-2015	PCET

6	Mr. SainathVolam, Dr. K. R. Patil,	Networks	Ethical Hacking	07-09-2015	PCET
<b>Academic year 2013-14</b>					
7	Dr. A.SURESH BABU JNTUA,ANANTAPUR.	Data mining	Real World & Practical Exposure of SAP	12-9-2013	PCET
8	Dr.Pavan Kumar,Central University,Hyderabad.	Networks	Mobile adhoc networks	04-07-13 TO 06-07-13	PCET
<b>Academic year 2012-13</b>					
9	Dr.P.Ramesh, NBKR	Programming	Advanced Java-Spring & Hibernate	27-01-16	PCET
10	J.Swapna,IIT Madras	Cloud	Installation & Develop of Eucallaptus Open Stack & Open Nebulla Ubiquitas Cloud	28-08-16	PCET

**26. Student profile programme/ course wise:**

**PG:** Total intake is: 120

Name of the Course	Academic Year	Application Received	Selected Seat		Pass percentage
			Male	Female	
MCA	2016-17	Admission through APSCHE	0	0	As per APSCHE norms
	2015-16		2	4	
	2014-15		0	0	
	2013-14		7	11	

**27. Diversity of students:**

Name of the Course	Academic Year	% of students from the College	% of students from the State	% of students from the other State	% of students from the other countries
MCA	2015-16	NIL	100%	NIL	NIL

	2014-15	NIL	100%	NIL	NIL
	2013-14	NIL	100%	NIL	NIL

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? NIL**

29. **Student progression:**

Student Progression		No.of Students				
		2015-16	2014-15	2013-14	2012-13	2011-12
UG-PG		-N.A-	-N.A-	-N.A-	-N.A-	-N.A-
PG-Ph.D		0	0	0	0	0
Ph.D-Post Doctorate		0	0	0	0	0
Employed	Campus	6	10	8	5	6
	Other than campus	10	30	27	32	40
Self employment		3	2	0	2	1

30. **Details of Department level Infrastructural facilities**

a) **Library:**

- Total No. of Volumes: 38
- Journals: NIL
- Reports: NIL
- News Letters: NIL
- Syllabus: JNTUA
- Question papers: AVAILABLE

b) **Internet facilities for staff and students:**

The college has Internet connectivity of 22 Mbps leased line of BSNL. Internet facility is provided for students, staff and HOD's with PCET email ID to access their account. Further they have access to close to over 80 computers in different labs and exclusive labs for PG programs in Computer Applications Department.

c) **Class rooms with ICT facility:**

There are 3 class rooms in the department to conduct the lecture. All the

class rooms are equipped with well-equipped furniture. In the view of ICT following teaching aids have been managed by the department.

- PPT presentation based on the curriculum
- NPTEL teaching materials
- Instructor material from the publisher
- Student material from the publisher

ROOM NO	USAGE	SHARED / EXCLUSIVE	AREA IN M <sup>2</sup>	EQUIPPED WITH
NB 307	Classroom	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
NB 308	Classroom	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans
NB 309	Classroom	EXCLUSIVE	75	Black Board,Adequate number of Lights & Fans

**d) Laboratories:**

S.No	LAB NAME	SHARED / EXCLUSIVE	EQUIPPED WITH
1	C & DATA STRUCTURES LAB	SHARED	COMPUTERS
2	IT WORKSHOP	SHARED	COMPUTERS
3	DATABASE LAB	SHARED	COMPUTERS
4	JAVA LAB	SHARED	COMPUTERS
5	WEB APPS LAB	SHARED	COMPUTERS
6	J2ME LAB	SHARED	COMPUTERS

**31. Number of students receiving financial assistance from college, university, government or other agencies :**

S.No	Year	Central Government Scholarship for SC/ST (A P)	Fee Concession for OBC students(A P)	Ex-Defence children scholarship	Defence children fee reimburse	Municipal Scholar
1	2012-13	0	42	0	0	0
2	2013-14	0	18	0	0	0
3	2014-15	0	0	0	0	0
4	2015-16	0	5	0	0	0



**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Web programming with PHP	16-10-2015	Dr.C.H.Pradeep Reddy, Assoc.Prof, VIT, Vellore
2	Real World & Practical Exposure of SAP	14-8-2015	R.Ramesh Assist Prof, VIT, Vellore.
3	Data mining techniques.	16-9-2015	Dr.M.N.RAO Professor & Head Swarna Andhra College Of Engg ,Narasapur.
4	Mobile adhoc networks	12-07-2016	Dr. P.VENKATA KRISHNA Assoc.Prof, VIT, Vellore
5	Wireless networks	23-09-2017	Dr. A.SURESH BABU JNTUA, ANANTAPUR.
6	SQL Server integration and Reporting Service	13-8-2016	Dr. V SURESH BABU Sreevidyanikethan Engg College, Tirupati
7	Latest trends in mobile computing	12-2-2016	Dr.Pavan Kumar, Central University, Hyderabad.
8	Knowledge Mining Using SPSS Modeller and Weka	12-9-2016	Dr.K Venugopal Rao
9	“NETWORK SIMULATION USING NS2”	11-10-2016	J K SWAPNA
10	Research trends in “Data mining”	10-11-2016	Ch. Chitti Babu, Principal, Annamacharya Institute of Computer Studies, Rajampet.
<b>Academic Year-2015-16</b>			

11	Design and Analysis of Algorithms	10-11-2015	Dr K Jyothi, Associate Professor, Dept. of MCA, Sri Padmavathi Mahila Visva Vidyalayam
12	Distributed Systems	09-08-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
13	Computer Networks	07-9-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
14	Data Mining Concepts	02-02-2016	Dr. K. G. Srinivasa, Professor, MS Ramaiah Institute of Technology,
15	Emerging Trends in High Performance And computing	3-3-2016	Mr. B. S. Bindhu Madhava, Associate Director, C-DAC, Bangalore
16	Information Retrieval	30-03-2016	Dr. R.J. Rama Sree, Professor, Department of CSE, Rashtriya Sanskrit Vidyapeet, Tirupati
17	Data Mining Concepts	11-1-2016	Dr. RVB Subramanyam, Associate Professor, Department of CSE, NIT, Warangal
18	Career Guidance	4-4-2016	Mr. Krishna Prasanth. T, Assistant System Engineer, TCS, Mumbai
19	Software Testing	29-4-2016	K.Kalyana chakravarthy, Senior Software Engineer,CSC,Chenn ai
<b>Academic Year-2014-2015</b>			
20	Data mining tools	7-8-2014	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
21	Networking simulation tools	10-9-2014	Dr. K. G. Srinivasa, Professor, MS Ramaiah Institute of Technology

22	Information Retrieval techniques	14-10-2014	Dr. RVB Subramanyam, Associate Professor, Department of CSE, NIT, Warangal
23	Distributed Systems	16-11-2014	Mr. M.V. Suman Kumar, Lead Engineer, R&D, Tejas Networks, Bangalore
24	Cloud computing technologies	12-12-2014	Mr. Jayaprakash Arjarapu, Principal Software Engineer, Oracle India Pvt. Ltd., Hyderabad
25	Information security	5-1-2015	Mr. Krishna Prasanth. T, Assistant System Engineer, TCS, Mumbai
26	Linux Networking	3-2-2015	Dr K Jyothi, Associate Professor, Dept. of MCA, Sri Padmavathi Mahila Visva
27	Distributed datamining	7-3-2015	Dr. Chittanrajan Hota, Head, CSE Dept., BITS, Hyderabad
28	Software Testing tools	18-4-2015	K.Kalyana chakravarthy, Senior Software Engineer, CSC, Chennai
<b>Academic Year-2013-14</b>			
29	Information Retrieval	13-07-2013	Dr. R. Manivannan
30	Natural Language Processing	30-07-2013	Dr. B. Srinivasu
31	Artificial Intelligence And Robotics	4-8-2013	Ms. Esther Rani
32	Data Mining In Real World	31-8-2013	Ms. P.R. Anisha
33	Network Security	30-9-2013	Mrs. Y.V.S.Pragathi
34	Data Mining TOOLS AND TECHNIQUES	21-12-2013	Mr. Kishore C. Reddy
35	Cloud Computing	8-1-2014	Mrs. J K Swapna

36	Big data, Spatial Information Technology	24-2-2014	Mrs. Y. V. Sreevani
37	Machine Learning (AI)	25-4-2014	Mr. Rajashekara Shastry
<b>Academic Year-2012-13</b>			
38	Cloud Computing	20-7-12	Mrs. Sumayya Afreen
39	Networking, Data Mining	30-7-12	Mrs. B. Gnana Prasuna
40	Natural Language Processing	6-8-12	Prof. G V S Raju
41	Natural Language Processing	21-9-12	Mrs. M. Sowmya
42	Piezo Optics/ Communication Systems	11-11-12	Dr. Ravindharan Ethiraj
43	Digital Image Processing	8-1-13	Dr. Satya Prasad Lanka
44	Embedded System/Automation	30-1-13	Prof. A. Gopala Sharma
45	Communication and Radarengineering	8-2-13	Prof. K.N.Sahu
46	Image Processing	9-4-13	Dr. M. Kezia Joseph

### Workshops Organized

S. No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Security using quantu key distribution protocol	8-11-2016	L.karthi keya,SVCET
2	Curse of dimentionalitiy for adoptive cluster od distance bounding in high dimentional indexing	16-4-2017	M.Pavan kumar,JNTUH
<b>Academic Year-2015-16</b>			
3	Cloud computing in the real world	8-9-2015	Dr.p.Ramesh,SVCET
4	Clustering techniques	21-32016	J.Swapna,IIT madras
<b>Academic Year-2014-15</b>			
5	Routing algorithms	7-8-2014	K.Varshini

6	Data mining using weka	11-2-2015	Prof. N. Gireesh
7	Information Security tools	17-3-2015	Dr. B. Polaiah
<b>Academic Year-2013-14</b>			
8	Real worldand practical exposure of SAP	12-9-13	Dr.A.Suresh Babu, JNTUA
9	Mobile adhoc network	4-7-13to 6-7-13	Dr.Pavan kumar, CentralUniversity, Hyderabad
<b>Academic Year-2012-13</b>			
10	Advanced Java spring and hibernate	2-10-12	Dr.P.Ramesh, NBKR
11	Installation and develop of eucalluptus open stack	8-2-13	J.Swapna,IIT madras

**Seminars Organized**

S.No	Topic	Date	Guest name / Resource person
<b>Academic Year-2016-17</b>			
1	Robotics and Artificial Intelligence	16-8-2016	K.Kalyana chakravarthy, Senior Software Engineer,CSC,Chennai
2	Data Mining Techniques through WEKA	11-12-2016	Ms. B. Padmaja, Mr. O. Obulesu
3	Advances in Information, Communication and Networking Technologies	8-2-2017	Dr. K V G Rao,GNITS,Hyderabad
4	Cloud Computing	13-4-2017	Mr. A. Srinivasulu
<b>Academic Year-2015-16</b>			
5	WCF Application Development	8-9-2015	Dr. R. Md. Shafi
6	Network Simulators	21-10-2015	Mr. A. Chandra
7	Robotics and Artificial Intelligence	20-01-2016	Prof. D.Jatin Das
8	Data Mining Techniques through WEKA	30-3-2016	Mr. O. Eswara Reddy
<b>Academic Year-2014-15</b>			
9	Web programming using PHP	7-8-2014	Mr..A.Gopala

			Sharma
10	Data hiding	21-9-2014	Ms.D. Devi Lavanya
11	UNIX INTERNALS	20-1-2015	Ms.ManjotKaur
12	Computer architecture	11-3-2015	Ms.T. Naga Laxmi
<b>Academic Year-2013-14</b>			
13	Wireless networks	21-7-13to 22-7-13	P.Ramesh, VIT, Vellore
14	Wireless sensor networks	1-9-13 to 3- 9-13	Dr.M.N.Rao, Andhra college
15	SQL server and DB2	11-2-14 to 13-2-14	Dr.P.Venkata Krishna
16	Web programmingwith PHP	12-2-14	Dr.P.Venkata Krishna
<b>Academic Year-2012-13</b>			
17	Data mining techniques through weka	10-12-12	Miss.B.Padmaja, JNTUH
18	Networks	5-1-13	DR.V. Prasad, MITS
19	Data mining	2-2-13	Dr.V.Suresh babu, Vidyanikethan
20	Cloud Computing	8-4-13	Mr.A.Srinivasulu, VITS

**Industrial Visit: NIL****33. Teaching methods adopted to improve student learning:**

PPTs, Class room teaching, Assignment, Tutorial class, Remedial class, Seminars.

Learning Management System, NPTEL Lectures

- Identifying similarities and differences.
- Summarizing and note-taking.
- Reinforce effort and given that recognition.
- Homework and practice.
- Cooperative learning.
- Setting objectives and provided that feedback.

- Generating and trying hypotheses.
- Questions, cues, and advance organizer.
- Weekly Unit Test.
- By providing assignments and having appropriate formats to verify the same.
- Proving well equipped laboratories.

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities: NIL**

**35. SWOC analysis of the department and Future plans**

**Strengths:**

- Wide ranging and multidisciplinary research
- Teams able to implement test environments
- Strong progression expertise and systemic thinking
- Good industry cooperation and networks, good ability to respond to new research needs
- One Centre of brilliance, one Strategic Centre for Science, Technology and Innovation and a number of doctoral programmes in the field.

**Weaknesses:**

- Inadequate culture of publishing research results
- Weak superintendent mobility and other exposure
- Early stages of research career hampered by insufficient supply of dissertation opportunities
- Underdeveloped volume of doctoral programmes
- Underutilisation of funding opportunities offered by EU and other worldwide mobility programmes.

**Opportunities:**

- Creating critical mass and growing exposure through synchronized effects of Academy
- Utilising the ability to react swiftly in research into emerging topics and needs
- Growing international research cooperation
- Stepping up cooperation.
- More university agreements on collaboration

**Challenges:**

- Loss of production chains decreasing the number of research topics
- Culture trumps technology among young people, makes student staffing more difficult
- Ever tighter budgets due to economic uncertainty
- Funding directed at position themes.

**PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY**

(Approved by A.I.C.T.E., New Delhi &amp; Affiliated to J.N.T.U., Anantapur)

NELLORE - 524 004 (A.P.)

Office & Fax : 2393884  
Principal : 2393883Dr.K. Vijayabhaskara Reddy  
Principal

Date : 10-05-2017

**DECLARATION BY THE HEAD OF THE INSTITUTION**

This is to certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after through internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the Institution with seal

**PRINCIPAL****PRIYADARSHINI COLLEGE OF  
ENGINEERING & TECHNOLOGY  
NELLORE - 524 004**

Date: 10-05-2017

Place: Nellore



Ph. 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)  
UGC Website: [www.ugc.ac.in](http://www.ugc.ac.in)

श्री-विज्ञान विज्ञान  
SPEED POST

विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F. No. 8-237/2012 (CPP-I/C)

The Registrar,  
Jawaharlal Nehru Technological University  
Anantapur - 515 002  
Andhra Pradesh

91 APR 2014

Sub: Recognition of College under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter no. nil dated 26.12.2013 received from the Principal, Priyadarshini College of Engineering & Technology, Kanuparthipadu, Nellore - 524 004, Andhra Pradesh on the above subject and to say that it is noted that the following college is **un-aided/self financed and permanently** affiliated to Jawaharlal Nehru Technological University, Anantapur. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head 'Non-Government, self financed Colleges teaching upto Master's Degree':-

Name of the College	Year of Establishment	Remarks
Priyadarshini College of Engineering & Technology, Kanuparthipadu, Nellore - 524 004, Andhra Pradesh.	2005	The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 <sup>th</sup> July 2011.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Charan Dass)  
Under Secretary

Copy to:- *Kanuparthipadu BO NLR-3*

- ✓ The Principal, Priyadarshini College of Engineering & Technology, Kanuparthipadu, Nellore - 524 004, Andhra Pradesh.
- The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi - 110 001.
- The Secretary (Higher Education), Government of Andhra Pradesh, Secretariat Building, J-Block, 4<sup>th</sup> Floor, Hyderabad - 500 022, (Andhra Pradesh).
- The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Andhra Pradesh).
- Publication Officer (UGC-Website), New Delhi.
- Section Officer (FD-III Section), UGC, New Delhi.
- Guard file.

(Sunita Khanna)  
Section Officer



## All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. South-Central/1-3325860564/2017/EOA

Date: 30-Mar-2017

To,

The Principal Secretary  
(Higher Education) Govt. of Andhra Pradesh,  
J Block, 4th Floor, Secretariat Building,  
Hyderabad-500022

**Sub: Extension of approval for the academic year 2017-18**

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-2396524	Application Id	1-3325860564
Name of the Institute	PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY	Institute Address	KANUPARTHIPADU NELLORE - 524004 SPSR NELLORE(DIST.), NELLORE, NELLORE, Andhra Pradesh, 524004
Name of the Society/Trust	PRIYADARSHINI EDUCATIONAL SOCIETY	Society/Trust Address	BUJABUJA NELLORE, NELLORE, NELLORE, Andhra Pradesh, 524004
Institute Type	Unaided - Private	Region	South-Central

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3325860564			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota / OCI / Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	18	18	NA	NA	NA

Application Number: 1-3325860564

Note: This is a Computer generated Report.No signature is required.

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Letter Printed On:13 April 2017

Printed By : AE124241



### All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER SYSTEMS	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	120	120	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	BUSINESS ADMINISTRATION	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	120	120	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Jawaharlal Nehru Technological University, Anantapur	120	120	NA	NA	NA

The above mentioned approval is subject to the condition that

PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

Application Number: 1-3325860564

Note: This is a Computer generated Report.No signature is required.

Printed By : AE124241

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Letter Printed On:13 April 2017



## All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg Vasant Kunj, New Delhi-110067

PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org).**

**Prof. A.P Mittal**  
**Member Secretary, AICTE**

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
First Floor, old BICARD Building  
Jawaharlal Nehru Technological University  
Masab Tank, Hyderabad-500076
2. **The Director Of Technical Education\*\*,**  
Andhra Pradesh
3. **The Registrar\*\*,**  
Jawaharlal Nehru Technological University, Anantapur
4. **The Principal / Director,**  
PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY  
KANUPARTHIPADU  
NELLORE - 524004  
SPSR NELLORE(DIST.),  
NELLORE, NELLORE,  
Andhra Pradesh, 524004
5. **The Secretary / Chairman,**  
PRIYADARSHINI EDUCATIONAL SOCIETY  
BUJABUJA NELLORE,  
NELLORE, NELLORE,  
Andhra Pradesh, 524004
6. **Guard File(AICTE)**

**Note: \*\* - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.**



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**

(Established by Govt. of A.P., Act. No. 30 of 2008)

ANANTHAPURAMU - 515 002 (A.P.) INDIA.

**Prof. S. Krishnaiah**

M.E., Ph.D

**REGISTRAR**

Phone : + 91-8554-272433

Fax : + 91-8554-272437

Mobile : + 91-99080 88806

e\_mail : registrar@jntua.ac.in

: sankranthi@rediffmail.com

Date:01-05-2017

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Priyadarshini College of Engineering & Technology**, Kanuparthipadu, AK Nagar Post, Nellore is affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuramu since 2005 and the following courses are taught in the said college as per approval.

Sl. No.	Name of the Course(s) and Duration	Affiliation	Period of validity
1.	B.Tech.-Electronics & Communication Engineering - 4 years	Temporary	2016-17
2.	B.Tech.-Computer Science & Engineering - 4 years	Temporary	2016-17
3.	B.Tech.-Electrical & Electronics Engineering - 4 years	Temporary	2016-17
4.	B.Tech.-Civil Engineering - 4 years	Temporary	2016-17
5.	B.Tech.-Mechanical Engineering - 4 years	Temporary	2016-17
6.	MBA - 2 years	Temporary	2016-17
7.	MCA - 2 years	Temporary	2016-17
8.	M.Tech.-Digital Electronics & Communication Systems - 2 years	Temporary	2016-17
9.	M.Tech.-Computer Science & Engineering - 2 years	Temporary	2016-17
10.	M.Tech.-Power Systems - 2 years	Temporary	2016-17

  
**REGISTRAR**



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**Fwd: Fw: LOI status of PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY , NELLORE,NELLORE**

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----- Forwarded Message -----

**From:** NAAC <[admn@naac.gov.in](mailto:admn@naac.gov.in)>

**To:** [price\\_nlr@yahoo.co.in](mailto:price_nlr@yahoo.co.in)

**Cc:** [rcsouth@naac.gov.in](mailto:rcsouth@naac.gov.in)

**Sent:** Saturday, 29 April 2017 1:00 PM

**Subject:** LOI status of PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY , NELLORE,NELLORE

**Dear User,**

**Institution Name :PRIYADARSHINI COLLEGE OF ENGINEERING & TECHNOLOGY , NELLORE**

**Your Institution TRACKID is :APCOGN27447**

Thank you for your interest in the Assessment and Accreditation process of NAAC.

Your LOI is accepted for submission of SSR.

1. If your institution has submitted LOI on or before 31st July 2015 you are required to submit

the SSR within **six months** from receipt of this intimation.

**Please note that you must upload the SSR/RAR on your institutional website before submitting hard copies to NAAC.**

2. If your institution has submitted LOI on or after 1st August 2015 you are required to submit

the SSR within **two weeks** from receipt of this intimation.

Please note that the SSR/RAR uploaded on your institutional website must not be password protected

and accessible to public until completion of the A&A process by NAAC.

For further details/ instructions on procedures and timelines for processing A&A applications

kindly visit our website: [www.naac.gov.in](http://www.naac.gov.in)

**Note :**

a) No Separate intimation will be mailed on the above matter.

b) Ensure submission of the SSR in the correct and applicable format. Please use the NAACs "Manual for Self Study" applicable to your institution.

c) The Institutions are hereby advised to upload information on "All India Survey of Higher Education" in MHRD website (<http://aishe.gov.in>) under intimation to NAAC. At the time of submission of SSR/RAR to NAAC, institutions have to submit the documentary proof of uploading the AISHE information

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REPLY TO THIS MAIL. -----**

## **Format for Presentation of Practice**

**1. Title of the Practice**

This title should capture the keywords that describe the Practice.

**2. Goal**

Describe the aim of the practice followed by the institution. Brief the underlying principles or concepts in about 100 words.

**3. The Context**

Describe any particular contextual feature or challenging issues that have had to be addressed in designing and implementing the Practice in about 150 words.

**4. The Practice**

Describe the Practice and its implementation. Include anything about this practice that may be unique in the Indian higher education. Please also identify constraints or limitations, if any, in about 400 words.

**5. Evidence of Success**

Provide evidence of success such as performance against targets and benchmarks and review results. What do these results indicate? Describe in about 200 words.

**6. Problems Encountered and Resources Required**

Please identify the problems encountered and resources required to implement the practice in about 150 words.

**7. Notes (Optional)**

Any other information that may be relevant and important to the reader for adopting/  
implementing the Best Practice in their institution about  
150 words.

**8. Contact Details**

**Name of the Principal: Dr. K. Vijaya Bhaskara Reddy**

**Name of the Institution: Priyadarshini College of Engineering & Technology**

**City: Nellore**

**Pin Code: 524004**

**Accredited Status: Not Accredited**

**Work Phone: 086123938823**

**Fax: 086123938824**

**Website: [www.price\\_nlr.in](http://www.price_nlr.in)**

**E-mail: [price\\_nlr@gmail.com](mailto:price_nlr@gmail.com)**

**Mobile: 086123938823.**