INSTITUTIONAL ACCREDITATION SELF STUDY REPORT (SSR)

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

An Autonomous Institution of the University Grants Commission

P.O.Box No.1075, Nagarbhavi, BANGALORE - 560 072

By

SIR C R REDDY COLLEGE OF ENGINEERING

ELURU -534007,West Godawari Dist., A.P., INDIA

(Approved by All India Council For Technical Education, NEW DELHI)

Permanently Affiliated to Andhra University, Vishakapatnam- 530 003

www.sircrrengg.ac.in

Estd. 1989

Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, West Godavari Dist., A.P., INDIA

(APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM - 530 003)

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Ref. No.

Date : 25/11/2016

To
The Director
National Assessment and Accreditation Council
P. 0.Box. No. 1075,
Opp: NLSIU, Nagarbhavi,
Bangalore - 560072, Karnataka.

Respected Sir,

Sub: Sir C R Reddy College of Engineering, Vatluru, Eluru - Submission of Self Study Report - Reg.

Ref: LOI Acceptance mail received from NAAC, dated 15.11.2016

Track ID: **APCOGN26740**

With reference to above, I hereby submit five hard copies and one soft copy (CD) of Self-Study Report (SSR) of our College by the Indian Speed Post as per the guidelines from NAAC for 1st cycle Assessment and Accreditation. We are attaching the DD for Rs. **3,45,000**/- (Rupees Three Lakh Forty Five Thousand only) bearing No.**688939** dated 25/11/2016 in favor of The Director, NAAC, payable at Bangalore.

I request you to please let us know further action to be initiated from our side and possible date of visit of Peer team for assessment and accreditation.

Kindly consider the Self-Study Report and do the needful.

Thanking you

Yours faithfully,

Dr G. SAMBASIVA RAO
(PRINCIPAL)

PRINCIPAL
Sir C.R.R. College of Engineering
ELURU - 534007

Enclosures:
1. Demand Draft
2. Self-Study Reports (5 Hard copies & 1 Soft copy (CD))
3. LOI acceptance.
4. Proof of uploading AISHE information.

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PREFACE

Sir C R Reddy College of Engineering, established in the year 1989, is the flagship institute among the renowned Sir C R Reddy Group of Educational Institutions in Andhra Pradesh. It is one among the eighteen first generation self financing Engineering Colleges in erstwhile Andhra Pradesh.

Sir C R Reddy College of Engineering celebrated its silver jubilee in the year 2014. Since its inception, the college has been a premier institute in imparting quality education in engineering and the past 27 years have seen the institute fulfilling its motto of quality service and value based education to the student community. The institute is located in its own sprawling campus with an area of 30.48 acres. With its well designed buildings in the midst of lush green setting, the college is a head turner to those travelling on NH 16 (previously NH 5) and coastal railways.

The College is permanently affiliated to Andhra University, Visakhapatnam and offers B.Tech., M.Tech., MCA and MBA Courses. The Institute has excellent laboratory facilities and equipment and a modern state-of-the-art language laboratory to develop the communication and managerial skills of its students. The central library, housed in an aesthetically pleasing building, is the nerve centre of academic life in the college supporting teaching, learning, and activities of research and development of the college.

The institute is very much aware of the challenges of keeping pace with the shifts that are taking place in teaching and learning process from time to time. It is essential for any center of higher education to understand that true service lies in imparting education, inculcating moral values and motivating young minds towards research for the future. Towards this end the institute has highly qualified and committed faculty striving for individual competency with the right spirit of team work and work culture. Upholding ethical and moral values and shaping generations of youth as fine models of self-discipline and humaneness forms the guiding principle.

The college scrupulously follows the guidelines framed by NAAC for continuous improvement of quality of higher education. While submitting our SSR for assessment, we reiterate that Sir C R Reddy College of Engineering is committed to the norms laid down by NAAC and their fulfilment.

PART – I

INSTITUTIONAL DATA

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

1. Genesis of the Institute

Sir Cattamanchi Ramalinga Reddy College of Engineering was established in the year 1989 by Sir C R R Educational Society in Eluru, the district headquarters of West Godavari District, Andhra Pradesh. It is the first engineering college approved by AICTE in the erstwhile state of Andhra Pradesh and was accredited by NBA once. It is located in Eluru just by the side of National Highway 16. It is spread over an area of 30.48 acres of land. It is well connected by roads for the students from villages to commute daily. The college is located 32 km away from Vijayawada airport, 7 km from Eluru railway station and 5 km from the main bus stand. It is a self-financed engineering college affiliated to Andhra University, Visakhapatnam. The institute offers B.Tech., M.Tech., MCA and MBA Courses.

The present student strength of the college is 3659.The College has hostel facility for 500 boys and 450 girls. The institution has applied for three research centers, in the Departments of Mechanical Engineering, Electrical and Electronics Engineering and Computer Science and Engineering.

2. Departments and Programs offered

The college has eight departments which include six engineering departments, First Year Engineering department and MBA department. The six engineering departments offer four year B.Tech. programme in Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communications Engineering, Information Technology and Mechanical Engineering. These branches are supported by First Year Engineering Department comprising of English, Physics, Mathematics and Chemistry as basic subjects of study. In addition, two year post graduate M.Tech. Engineering programme is offered in the Departments of Computer Science and Engineering (specialization - Computer Science and Technology), Electrical and Electronics Engineering (specialization -Power Systems and Automation), Electronics and Communication Engineering (two specializations - VLSI and Communication Systems), Mechanical Engineering (specialization - Machine Design). The college also offers three year MCA PG programme under Department of Computer Science and Engineering and two year MBA PG programme.

Programmes offered by the college

S. No	Programme	Name of the Programme / Course	Year of establishment	Sanctioned Intake (A.Y. 2016-17)
1	B.Tech.	Computer Science and Engineering	1989	180
2	B.Tech.	Electronics and Communication Engineering	1989	180
3	B.Tech.	Electrical and Electronics Engineering	1994	180
4	B.Tech.	Mechanical Engineering	1989	120
5	B.Tech.	Information Technology	2000	120
6	B.Tech.	Civil Engineering	2009	60
7	MBA	Master in Business Administration	2007	60
8	MCA	Master in Computer Applications	2009	60
9	M.Tech.	Computer Science and Technology	2009	36
10	M.Tech.	Communication Systems	2009	24
11	M.Tech.	Power Systems and Automation	2010	24
12	M.Tech.	Machine Design	2010	18
13	M.Tech.	VLSI	2011	18

NBA Accreditation

The courses offered in B.Tech. programme are accredited once by National Board of Accreditation. The NBA accreditation for second time is due.

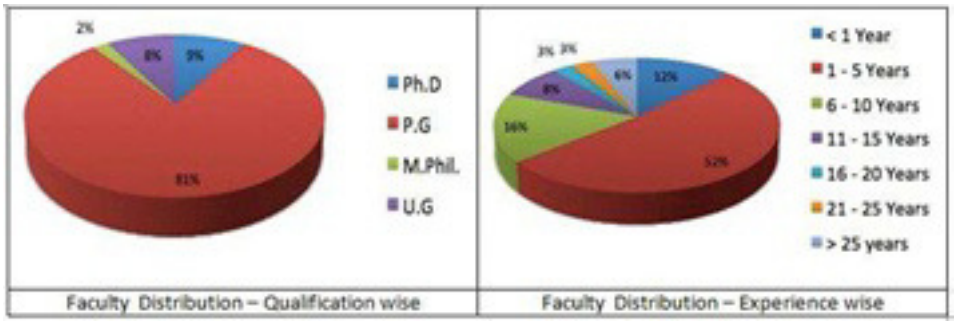
Period of Validity	
From	To
19-07-2008	18-07-2011

Since the new accreditation is outcome based, the college is preparing the entire system to transform into outcome based education (OBE).

3. Human Resources

Faculty members

The college is headed by a well experienced Principal. All the eight departments have qualified HODs and faculty members. In all, there are 259 qualified faculty members and out of them 86 are women teachers. It is supported by 121 skilled non-teaching staff. Many senior faculty members have Ph.D. degrees while the remaining faculty members have masters qualification. 41 faculty members are pursuing Ph.D. on part-time basis by registering in different universities.



Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Ph.D.	13	1	5	2	1	1	23
M.Phil.	0	0	0	0	5	1	6
PG	0	0	9	1	128	71	209
UG	0	0	0	0	13	8	21

Students Admission procedure

Of the students admitted into the first year B.Tech. Programme, 70% are admitted through centralized web counseling by Andhra Pradesh State Council for Higher Education (APSCHE) according to the norms and regulations prescribed by State Government through its Government Orders (GOs). Students from SC/ST/OBC/General are admitted as per the reservation quota allotted by the government. The remaining 30% of seats are filled under the management quota as per the guidelines and GOs given by Andhra Pradesh Government under the supervision of APSCHE.

Details of gender wise SC/ST/OBC/General admission into First Year Engineering programme for the past four years are given below:

B.Tech.

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	76	39	75	29	56	17	65	25
ST	3	0	5	2	2	1	8	1
OBC	243	100	273	102	236	112	219	93
General	162	141	188	137	198	146	127	96
Total	484	280	541	270	492	276	419	215

M.Tech.

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	6	0	7	3	6	7	12	8
ST	0	0	1	0	2	2	0	0
OBC	19	12	12	21	17	19	32	22
General	9	9	4	14	13	16	13	14
Total	34	21	24	38	38	44	57	44

MBA

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	3	4	7	1	7	2	8	1
ST	0	0	2	1	2	2	0	0
OBC	12	8	17	6	15	6	14	14
General	12	8	11	8	9	7	7	11
Total	28	19	37	16	33	17	29	26

MCA

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	1	0	0	0	1	2	0	1
ST	0	0	0	0	0	1	0	0
OBC	4	4	5	7	5	5	8	3

General	6	7	16	4	13	8	5	13
Total	**11**	**11**	**21**	**11**	**19**	**16**	**13**	**17**

4. Infrastructure

Buildings and laboratories

The college is well spread over 30.48 acres of land. The total plinth area of all the buildings is 45,178 sq. meters. There is a lush green environment which is regularly maintained and each department has separate space allocation. There are 97 classrooms, 53 laboratories, 8 departmental libraries and a central library. There is a separate administration building for accommodating Principal chamber, administration office, and central examination section. There is an air conditioned auditorium with 500 seating capacity, two air conditioned seminar halls with seating capacity of 200 members each and 7 non-air conditioned seminar halls. There is an open air theatre to accommodate nearly 3000 members. There is also a well-established Training and Placement Cell.

The following infrastructure facilities are available in the college:

- Central library with 17,089 titles and 56,854 volumes.
- 1235 computers with internet facility and connected with central server through fiber-optic back bone.
- 120 Mbps 1:1 leased bandwidth.
- Wi-Fi connectivity in the campus and hostels.
- Computer facility with internet facility for faculty.
- Water purification plant of 20,000 liters/day capacity.
- 200 KVA and 50 KVA diesel generators for backup power supply.
- Hygienically maintained canteen for students and staff.
- Indoor and outdoor games for boys and girls.
- Full-fledged gymnasium.
- Dispensary with a qualified doctor and a medical assistant.
- Bookshop to cater to stationery needs.
- Hostels for boys and girls.

College buildings are regularly maintained by a civil engineer and his team of workers. Electrical problems are attended to by a qualified electrician and his team. The laboratory equipment is maintained by the technicians in their respective laboratories. In special cases, professional help is sought.

Library

It is one of the biggest structures in the state of erstwhile Andhra Pradesh with a carpet area of 4,454 sq. meters equipped with 17,089 titles and 56,854 volumes. Library has seating for 336 students. There is a special

section for reference books, periodicals and national and international journals. There is also a digital library with 30 computers with internet facility and e-books. A browsing center is housed in central library with 70 systems for students to use from 8am to 8pm

- No. of Journals subscribed – Total 121(Indian -117 and Foreign- 4)
- No. of Computer related journals : 37
- Average number of books issued every day : 449
- Average number of visitors/ day : 443
- Students can borrow four books at a time for 15 days.

Computers, LAN and Internet

The college has 1,235 computers in laboratories, faculty rooms, library, administrative offices, training and placement cell, hostels and central examination section. There is a leased line taken to provide internet facility to staff and students with 120 Mbps bandwidth spread through fiber optic back bone as well as Wi-Fi. Computer laboratories in departments, library, and faculty rooms are connected with LAN and internet facility. Hostels are provided with wired internet connectivity as well as Wi-Fi.

5. Processes and Activities

Teaching-Learning process

HOD of each department assigns subjects democratically in each semester to all faculty members based on their expertise and choice. Each faculty prepares lesson plan as part of course file to attain course outcomes. Course delivery, assessment, and evaluation are carried out by individual faculty as per the demand of course outcomes. The delivery method varies from course to course and uses a combination of black board, PPTs, OHPs, and other teaching aids. Faculty conducts tests regularly and gives home assignments. Mid-term examinations are conducted in the middle of the semester by the examination section of individual department. The faculty finally submits the internal assessment marks including laboratory marks, attendance and mid-term examination marks to the central examination section through HOD. All the subjects carry 70:30 marks as external and internal components. The faculty takes make-up classes for slow learners and disabled persons on request so that they can catch up with the other students.

Examination section

The college has a central examination section to conduct university examinations and to liaise with university in examination related matters. It is headed by a senior faculty member as the in-charge of the section. The main functions of the examination in-charge are to collect confidential and non-confidential material from the university, keep in safe locker, prepare

seating plans, conduct of examinations, safe dispatch of answer scripts to university, book malpractice cases, prepare consolidated internal marks statements and dispatch to university and maintain the record of examination results.

Evaluation of teachers

There are two ways of evaluation of all teachers. Feedback is collected from students for all teachers at the middle of each semester on a 0-100% scale. There exists a self-evaluation of teachers in a prescribed format which is later verified by the team of senior professors. The feedback of teachers whose performance is not satisfactory is discussed in person and advice is given to them by HOD and senior faculty to improve their teaching as per the requirement.

Co-curricular and extracurricular activities

The management and administration of the college sincerely believe that active participation of students in co-curricular and extracurricular activities is essential for holistic development of their personality and success in life. The college ensures this by conducting various programmes in a structured manner:

- Encouraging students to participate in seminars/workshops.
- Formation of student chapters of professional bodies like IETE, IEI, ISTE and CSI.
- Student associations/clubs for co-curricular activities.
- In-house training for enhancing aptitude and soft skills.
- Arranging guest lectures on emerging trends.
- Personality development programmes for student overall development.
- Industrial visits and industrial training for wider exposure.
- Organizing Techfests.
- Conducting sports and cultural activities.
- Entrepreneurship Development Cell for training entrepreneurs.

Student empowerment

To create a learning environment where there is a scope for students to enrich their knowledge and put forth their ideas and provide feedback that will improve the system and prepare them for their careers, various measures have been adopted, some of which are listed below:

- Class work review committees
- Mentoring and counseling
- Feedback system
- Grievance redressal committee

- Various student chapters/associations

Training and Placement Cell

There is a full-fledged training and placement cell working in the college. It is headed by a training and placement officer and a team of people to assist him. This department is in constant touch with IT companies and core engineering companies. These companies visit the college regularly and conduct campus interviews. The percentage of eligible and interested graduating students employed during 2015-16 is 49.6%. The average number of companies that visit per year is 25.

Percentage of students placed during last four years

Graduating Year	Placements
2015-16	49.6%
2014-15	34.5%
2013-14	14.7%
2012-13	11.73%

Research and development

There are number of research papers published by the faculty in national and international journals and conferences. The details are given in Criterion III. There are a number of research projects completed during the last three years. Presently the following research projects funded by external agencies are on hand.

Title of the Project	Sponsored Agency	Scheme	Receiving Department	Amount Rs. in Lakhs
Fabrication & Experimental Investigations on Al-Si-Tib2 Nano Composites	AICTE	RPS	Mechanical Engineering	20.40
Assessment of the quality of Drinking water sources in the upland area at West Godavari District, A.P, India.	Department of Science and Technology	DST-WTI	Civil Engineering	22.00

Faculty empowerment / encouragement

Qualified and committed faculty is the strength of the college. Recognizing this very important and vital aspect, the college has adopted the following measures:

- Sponsoring for higher education.
- Offering incentives for paper publications in journals/conferences.
- Sponsoring faculty to attend workshops and faculty development programmes.
- Organizing FDPs within college at an appropriate time in the academic year.
- Encouraging faculty members with awards for both teaching and research.
- Providing medical facility, special leaves, maternity leaves etc.

6. Support Facilities Available

Canteen
The college has a hygienically maintained canteen for providing breakfast, snacks and lunch for faculty and students. Nearly 250 people can be accommodated at a time. The entire food item costs are controlled by canteen committee comprising of staff and students.

Power supply and backup
The college has a dedicated 11 KV express feeder from APEPDCL to cater to power needs of the college. Two diesel generators of 200 KVA and 50 KVA are available as backup supply.

Potable water supply
There is a water purification plant of 20,000 liters capacity per day. From this plant, drinking water is provided in 20 liter bottles to all departments, library, canteen and other buildings to cater to the needs of all students and staff of the college.

Hostels to Boys and Girls
The college has separate hostels for boys and girls located within the campus. Presently there are 480 boys and 426 girls residing in their respective hostels.

Transport System
Since the college is located in suburbs of the town and well connected by road and rail, most of the students commute by private transport. However, the college has 5 buses running from all parts of the town for the students who wish to travel by college owned transport. Number of students and

staff use their own motor bikes and cars for transport. Parking stands are provided in the college separately for staff and students.

7. Future Plans

The college looks forward to becoming autonomous at the earliest with enough flexibility to design its own curriculum to meet the future demands of this region which is going to be highly industrialized. This is in line with the policy of the newly formed Andhra Pradesh state. The college is also planning to introduce CBCS completely which provides students from rural back ground with enough flexibility to complete the degree as per their learning ability. It is also aimed at transforming the teaching-learning- assessment- evaluation- attainment process as a true outcome based model. This is possible only when the college becomes autonomous.

The college has plans to add-on courses at UG level and PG level. The college is encouraging all junior faculty members to involve in research activity and to register for Ph.D. The college has applied for establishing a solar pack power system with subsidy from the Ministry of New and Renewable Energy, Government of India. The college has plans to use technology for harnessing of rainwater mainly to demonstrate to the students the use of rain water harvesting technique.

SWOC Analysis

SWOC analysis has been carried out keeping in view the stakeholders of engineering education like parents, students, and faculty as well as central and state governments and AICTE. Formation of new state of Andhra Pradesh and its new policies play a vital role in the existence of engineering colleges. Fast changing industry requirements and quality of the student input are also taken into consideration in carrying out this analysis.

Strengths

1. Committed management and philanthropic society with a motto of serving the people:
    - All the institutions are run by the society to serve the people over the years without profit motive.
    - Eminent industrialists, businessmen, doctors, auditors, lawyers are a part of the society, willing to serve selflessly.

2. Decades of existence in the education field

- Successful maintenance of the colleges by the society over seven decades.
- One of the first generation private self-financing colleges with over 25 years of existence.
- Structured and proven educational system adopted from Andhra University as an affiliated college.
- Utmost trust in public.

3. Good Infrastructure and Facilities
    - Ideally located.
    - Ample building space.
    - Good laboratory facilities.
    - Adequate faculty and staff.

4. Recognitions
    - Permanent affiliation to Andhra University.
    - UG courses are accredited by NBA once.
    - Accreditation of the college by various industries, eg. TCS etc.
    - Andhra Pradesh Government recognized the college as SIEMENS skill development centre.

Weaknesses

1. Not in pace with fast changing demands of industry.
2. Financial restraints being a private self-financing institution to set-up high end facilities for PG and R&D.
3. Business incubators in collaboration with local industries are yet to be initiated.
4. In-house faculty development and continuing education programmes are not adequately supported due to financial constraints.
5. Limited accessibility to explosive on-line information.
6. Collaboration with premier research institutions is in formative stage.
7. Constraints to depute faculty under QIP for higher studies due to limited financial resources.
8. Meagre funds for inter-disciplinary research.
9. Limited advanced facilities and incentives for faculty and students to continue research in their chosen field.

Opportunities

1. Taking advantage of proximity to new capital and proposed industry zone, the college can transform itself into a premier institution in the next 5 years.
2. Clustering the institutions for maximizing the resource utilization and minimizing the costs.

3. Forming common research groups to secure maximum grants from funding agencies.

Challenges

1. Upcoming government institutions in next 5 years.
2. State government policy on permitting more Deemed Universities under state act.
3. Uncontrolled intake of the Deemed Universities.
   - Migration of experienced faculty.
   - Reduction in quality of student input.
4. Central government policy to allow Foreign Universities to set up their base.
5. Attraction of Deemed Universities of neighbouring states.

PROFILE OF THE COLLEGE

Profile of Sir C R Reddy College of Engineering

1. Name and Address of the College:

Name:	Sir C R Reddy College of Engineering	
Address:	Vatluru, Eluru	
City:	Pin: 534 007	State: Andhra Pradesh
Website:	www:sircrrengg.ac.in	

2. For Communication:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Dr. Gutta Sambasiva Rao	O: 08812 230840 R: 08812 234255	95022 63131	08812 224193	gutta245@ gmail.com
Vice Principal	--	--	--	--	--
Steering Committee Coordinator	Dr. K. Rambabu	O: 08812 230840 R : --	94416 95977	08812 224193	rambabu9441 695977@ gmail.com

3. Status of the Institution:

Affiliated College	✓
Constituent College	
Any other (specify)	

4. Type of Institution:

a. By Gender

i. For Men	
ii. For Women	
iii. Co-education	✓

b. By Shift

i. Regular	✓
ii. Day	
iii. Evening	

5. It is a recognized minority institution?

Yes	
No	✓

If yes specify the minority status (Religious/ linguistic/any other) and provide documentary evidence. --

6. Sources of funding:

Government	
Grant-in-aid	
Self-financing	✓
Any other	

7. a. Date of establishment of the college : 25/07/1989

b. University to which the college is affiliated / or which governs the college (If it is a constituent college)

Andhra University, Visakhapatnam

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks(If any)
i. 2(f)	16-12-2008	---
ii. 12(B)	--	--

(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, NCTE, MCI, DCI, PCI, RCI etc)**

Under Section / clause	Approval Details	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
South-Central/1-2813204758/2016/EOA Dt:05-04-2016	**B.Tech.** Computer Science and Engineering Electronics and Communication Engineering Electrical and Electronics Engineering Information Technology Mechanical Engineering Civil Engineering	05-04-2016	1Year	---
	M.Tech. Computer Science and Technology Communication Systems Power Systems and Automation Machine Design VLSI	05-04-2016	1Year	---
	Master of Computer Application (MCA)	05-04-2016	1Year	---
	Master of Business Management (MBA)	05-04-2016	1Year	---

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes [✓] No [ ]

If yes, has the College applied for availing the autonomous status?

Yes [ ] No [✓]

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes [ ] No [✓]

If yes, date of recognition:…….(dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes ☐ No ☑

If yes, Name of the agency……and

Date of recognition:……(dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location*	Rural
Campus area in sq. mts.	1,23,348 sq. mts.
Built-up area in sq. mts.	45,178 sq. mts.

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or incase 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 ☑
- Sports facilities

☐ Play ground ☑

☐ Swimming pool

☐ Gymnasium ☑

Hostel

☐ **Boys' hostel** - Yes

i. **Number of hostels** : 2

ii. **Number of inmates** : 480

iii. **Facilities** : Recreation room, Mineral Water supply, Reading Table, Wi-Fi connectivity etc.

☐ **Girls' hostel** -Yes

i. Number of hostels : 2

ii. Number of inmates : 426

iii. **Facilities**– Recreation room, Mineral Water supply, Reading Table, Wi-Fi connectivity etc.

- Working women's hostel- **No**
    i. Number of inmates
    ii. Facilities (mention available facilities)
- Residential facilities for teaching and non-teaching staff(give numbers available—cadre wise) **No**
- Cafeteria—☑
- Health centre–☑

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance Health centre staff–

Qualified doctor	Fulltime	✓	Part-time	
Qualified Nurse	Fulltime	✓	Part-time	

- Facilities like banking, post office, book shops ☑
- Transport facilities to cater to the needs of students and staff ☑
- Animal house – Not applicable
- Biological waste disposal – Not applicable
- Generator or other facility for management/regulation of electricity and voltage ☑
- Solid waste management facility ☑
- Waste water management
- Water harvesting ☑

12. Details of programmes offered by the college (Give data for current academic year)

S. No.	Programme Level	Name of the Programme / Course	Durati-on	Entry Qualific ation	Medium of instruction	Sanctioned / approved student strength	No. of students admitted 2016-17
1.	Under-Graduate	B.Tech. Computer Science and Engineering	4Years	10+2	English	**180**	180
2.	Under-Graduate	B.Tech. Electronics and	4Years	10+2	English	**180**	179

		Communicatio n Engineering					
3.	Under-Graduate	B.Tech. Electrical and Electronics Engineering	4Years	10+2	English	**180**	121
4.	Under-Graduate	B.Tech. Mechanical Engineering	4Years	10+2	English	**120**	109
5.	Under-Graduate	B.Tech. Information Technology	4Years	10+2	English	**120**	119
6.	Under-Graduate	B.Tech. Civil Engineering	4Years	10+2	English	**60**	58
7.	Managem ent	Master in Business Administration	2 Years	Degree	English	60	47
8.	MCA	Master in Computer Applications	3 Years	Degree	English	60	22
9.	Post-Graduate	M. Tech. Computer Science and Technology	2 Years	B.E/B. Tech.	English	36	14
10.	Post-Graduate	M. Tech. Communicatio n Systems	2 Years	B.E/B. Tech.	English	24	10
11.	Post-Graduate	M. Tech. Power Systems and Automation	2 Years	B.E/B. Tech.	English	24	14
12.	Post-Graduate	M. Tech. Machine Design	2 Years	B.E/B. Tech.	English	18	13
13.	Post-Graduate	M. Tech. VLSI	2 Years	B.E/B. Tech.	English	18	8

13. Does the college offer self-financed Programmes?

Yes [ ] No [✓]

If yes, how many? [ ]

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

Yes		No	✓	Number	

15. List the departments

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	--	--	--	--
Arts	--	--	--	--
Commerce	--	--	--	--
Engineering	Computer Science and Engineering	B.Tech.	M.Tech., MCA	--
	Electronics and Communication Engineering	B.Tech.	M.Tech.	--
	Electrical and Electronics Engineering	B.Tech.	M.Tech.	--
	Mechanical Engineering	B.Tech.	M.Tech.	--
	Information Technology	B.Tech.	-	--
	Civil Engineering	B.Tech.	--	
MBA	Master in Business Administration	--	MBA	--

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com…)

a. annual system [---]

b. semester system [4]

c. trimester system [---]

17. Number of Programmes with

a. Choice Based Credit System [4]

b. Inter/Multi disciplinary Approach [---]

c. Any other (specify and provide details) [---]

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes [ ] No [✓]

If yes,

a. Year of Introduction of the programme(s) …… (dd/mm/yyyy) and number of batches that completed the programme [Nil]

b. NCTE recognition details (if applicable)

Notification No.:…… Date: …… (dd/mm/yyyy)

Validity:……

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes [ ] No [✓]

19. Does the college offer UG or PG programme in Physical Education?

Yes [ ] No [✓]

If yes,

a. Year of Introduction of the programme(s)…….(dd/mm/yyyy)

and number of batches that completed the programme Nil

b. NCTE recognition details (if applicable)

Notification No.:……Date: …… (dd/mm/yyyy)

Validity:…… …

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

Yes [ ] No [✓]

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government Recruited	--	--	--	--	--	--	--	--	--	--
Yet to recruit	--	--	--	--	--	--	--	--	--	--
Sanctioned by the Management/ society or other authorized bodies Recruited	13	1	14	3	146	82	46	26	43	6
Yet to recruit	--	--	--	--	--	--	--	--	--	--

***M-Male*F-Female**

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Mal	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	13	1	5	2	1	1	23
M.Phil.	0	0	0	0	5	0	5
PG	0	0	9	1	128	71	209
UG	0	0	0	0	12	10	22
Temporary teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	--	--	--

22. Number of Visiting Faculty/Guest Faculty engaged with the College. Nil

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

Categories	2015-16		2014-15		2013-14		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	89	33	70	28	63	23	91	40
ST	08	04	06	06	06	02	15	06
OBC	307	136	273	142	249	131	271	148
General	219	163	233	177	192	154	272	198
Others	--	--	--	--	--	--	--	--

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the college is located	3334	306	--	--	3640
Students from other states of India	19	0	--	--	19
NRI students	--	--	--	--	--

Foreign students	--	--	--	--	--
Total	3353	306	--	--	3659

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

UG 1.49% PG 1.36%

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

(a) Including the salary component Rs.39,678

(b) Excluding the salary component Rs.13,473

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

S.No.	Name of the Course and Combination	Teacher-student ratio
1	B.Tech. Computer Science and Engineering	1:15
2	B.Tech. Electronics and Communication	1:15
3	B.Tech. Electrical and Electronics	1:15
4	B.Tech. Information Technology	1:15
5	B.Tech. Mechanical Engineering	1:15
6	B.Tech. Civil Engineering	1:15

7	MBA	1:15
8	M.Tech. Computer Science and Technology	1:12
9	M.Tech. Communication Systems	1:12
10	M.Tech. Power Systems and Automation	1:12
11	M.Tech. Machine Design	1:12
12	M.Tech. VLSI	1:12

29. Is the college applying for

Accreditation: Cycle 1 [✓] Cycle 2 [ ] Cycle 3 [ ] Cycle 4 [ ]

Re-Assessment: [ ]

(Cycle1refers to first accreditation and Cycle 2,Cycle3 and Cycle 4 refers to re-accreditation)

30. Date of accreditation*(applicable for Cycle2, Cycle3, Cycle 4 and re-assessment only)

Cycle1:……(dd/mm/yyyy) Accreditation Outcome/Result ……....

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

Cycle3:…… (dd/mm/yyyy) Accreditation Outcome/Result……....

***Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.**

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

248

32. Number of teaching days during the last academic year

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

192

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

IQAC 14-07-2016 (dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC. – **Not Applicable**

AQAR (i) ……(dd/mm/yyyy)

AQAR (ii) …… (dd/mm/yyyy)

AQAR (iii) ……..… (dd/mm/yyyy)

AQAR (iv) ……(dd/mm/yyyy)

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

- Managed by a true Society established in 1945.
- Established by renowned Sir C R Reddy Group of Educational institutions in the year 1989.
- Twenty Seven long years of dedicated services.
- Progressive and committed management.
- Imparting value based engineering education in the state of Andhra Pradesh.
- Affordable fee structure to cater the needs of poor and middle income community.
- 90% of the students are from rural parts of the State.
- Skill Development Centre (SDC) in collaboration with APSSDC is active and imparting training students and faculty in various upcoming technologies.
- Excellent infrastructure with 20% excess floor space for quick response to establishment of various centers of excellence and incubation centers.
- Secured prestigious SIEMENS Technical Skill Development Center.
- Indian School of Business (ISB) partnered in delivering Diploma in Entrepreneur Development.
- Collaboration with NAASCOM for training the students in upcoming technologies – Data science, Cyber security etc.
- Congenial hostel facility for boys and girls separately, which is a second home for the students.
- Professional association like ISTE, CSI etc., help in making each student a national asset.
- Imparting life skills through in-house and external trainers and stringent assessment by Aon Hewitt – Cocubues to be readily employable.
- Ample space for the students for extra-curricular activities including three indoor wooden badminton courts, cricket and football fields etc.

PART – II

CRITERION-WISE INPUTS

CRITERION I

CURRICULAR ASPECTS

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 of the Institute

To emerge as a premier institution in the field of technical education and research in the state and as a home for holistic development of the students and contribute to the advancement of society and the region.

Mission of the Institute

To provide high quality technical education through a creative balance of academic and industry oriented learning; to create an inspiring environment of scholarship and research; to instill high levels of academic and professional discipline; and to establish standards that inculcate ethical and moral values that contribute to growth in career and development of society in general.

Objectives of the Institute

To build a productive and mutually beneficial partnership with all stakeholders including students, faculty, management, parents, employers, and alumni and to transform students in to competent engineering professionals with good ethical values and societal responsibilities, the college has identified the following objectives in tune with the Vision and Mission of the institute:

- Provide students with a solid foundation in the principles of engineering and technology.
- Improve the analytical and problem-solving skills of students.
- Provide a solid foundation for good communication skills.
- To instill discipline and hard work necessary for academic achievement in students.
- To inculcate skills necessary for team work and resources management by taking up multi-disciplinary projects, participation and organization of co-curricular activities.
- To make students aware of statutory and international standards for design so as to face challenges in the industry.
- To provide an environment that will help students grow into responsible citizens with good moral and ethical values.
- Continuously improve the critical areas of faculty education and training for effective content delivery, academic and industrial research.

- Develop rapport and partnership with industries and professional bodies for awareness on ongoing technological developments.
- Build industrial consultancy work and possible solutions to engineering challenges faced by the society wherever possible.

Quality Policy

To give emphasis on

- Enhancing industry specific technical skills and soft skills.
- Consultancy to industry.
- Advancing scientific and technological knowledge.
- Meeting the social obligations.

Communication to stakeholders

- The Vision and Mission statements are displayed prominently throughout the college.
- The statements are published in the college prospectus that is given out during admissions, in newsletters and also on the college website.
- Students and parents are also made aware of them during the induction programme which is organized during the admission of the students into the institute.
- Attention is also drawn towards vision and mission statements of the college during various programmes such as conferences, workshops, technical fests, and other extra & co-curricular events.

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).

For effective implementation of curriculum, the involvement of immediate stakeholders i.e., students and faculty is to be monitored in an effective manner. Towards this the college has implemented the following:

- Academic calendar, semester-wise, is prepared at college level in line with the calendar provided by the university and to be followed by all departments for the entire academic year.
- Subject allocation is done by head of the department with due consideration to the choice, specialization, experience of the faculty and the requirements of the department, and communicated to them well in advance before commencement of semester.
- The college functions from 9 am to 5 pm on all week days and from 9 am to 12.40 pm on Saturdays. Accordingly, class time-tables are prepared with a maximum of 8 periods per day.

- Meetings are conducted by the HODs with staff members to design and implement various strategies for monitoring and effective implementation of the curriculum.
- All the departments follow a calendar containing activities that are undertaken in an academic year. This helps the departments in effective execution of their plans.
- All the staff members have to prepare course files with lesson plan, course objectives, course outcomes, mapping with programme outcomes, delivery methods and techniques, etc.
- Lab experiments and lab manuals are made ready before starting of each semester in all laboratories by updating as per the requirements.
- Faculty members are encouraged to teach using teaching tools and aids such as power point presentations, video lectures, quizzes, seminars etc. as per the demand of course outcomes.
- Reviews are conducted at regular intervals and the status of syllabus coverage and other academic issues are discussed.
- Slots are allotted to counseling, library, communication skills, personality development, expert lectures to balance the other activities with curriculum activities.

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?

At the institution level, faculty members are given a wide range of support for effective translation and implementation of curriculum in to practice. These include:

- Optimal work load allotment to the faculty is done for effective utilization of their time for preparation and delivery of lectures, upgradation of knowledge, administrative works and research.
- Required tools are made available for effective delivery of lectures including a fully stacked central library, department level libraries, digital library with e-journals, wired and wireless high speed internet, e-classrooms, digital and overhead projectors, charts, models etc.
- The digital library facility is provided to the staff members to prepare and update the course contents and the college also subscribes to a large number of journals to be used by the faculty beyond the college hours.
- Computers with internet facility are provided to faculty for academic use.
- There is availability of computational and programme oriented software tools like MATLAB, AUTOCAD, RATIONAL ROSE etc. for effective communication and learning.

- To supplement classroom lectures of various courses in the UG programme and to enhance the students strength, college is facilitating offline NPTEL lectures.
- Faculty members are encouraged to attend Faculty Development Programmes, conferences conducted by premier institutes/universities like IIT Kanpur, IIT Kharagpur, NIT Warangal and web-based online lectures/classes for improving their teaching methodology.
- Encouragement is given to faculty to attend/organize workshops/seminars etc. Further special leave is granted to faculty attending workshops/conferences. The institute also bears the expenditure incurred towards registration fee, traveling and boarding.
- The college also arranges lectures on research methodology by eminent academicians to promote research activities in the departments and also enrich their delivery of lectures by incorporating research aspects of the subjects.
- Research labs are established in departments to promote research. For example, the research lab in Mechanical Engineering Department has all facilities to carryout research on Polymer Composites, Metal Matrix Composites and Nano Composites. Faculty members are encouraged and are given incentives to publish papers in reputed national/international journals.
- Orientation programmes are conducted for newly recruited faculty in the departments.

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.

For effective delivery and transaction of curriculum the college has implemented the following:

- Work load distribution for every semester is done well in advance to give sufficient time to the faculty for preparation. Subject allocation is based on qualification, expertise, teaching experience of the faculty, result analysis and feedback of students for all the courses taught by the faculty.
- Course outcomes of the allotted subject are supervised by subject coordinators.
- Each faculty member prepares course files for the subjects handled by them.
- Reviews on course delivery are conducted periodically by the Classwork Review Committee headed by the HOD.
- Student feedback is taken in the middle of the semester by the HOD to suggest corrective measures required, if any.

- Semester end review is carried out for expected outcomes.
- All the measures are taken to design class work schedule and monitored continuously for effective implementation of the curriculum.
- Faculty members are encouraged to use modern teaching aids like power point presentation and make classroom teaching interactive for effective content delivery.
- Incorporation of practical based learning with content beyond syllabus wherever possible to train the students in designing, enhance laboratory skills, data handling and interpretation, technical writing and communication, team collaboration and presentation.
- Departments have a well-equipped computer center with numerical, computational, and design software for faculty and student use. These centers help students in upgrading their skills in latest trends of technology and complete their projects.

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

The following initiatives are taken in addition to the existing curriculum and act as a bridge with the industries for career development and improving skills. These initiatives help in operationalization of the curriculum and also to understand the needs of the industry and train the students in the desired direction.

- Training and Placement Cell of the college networks and interacts with the representatives of industry. The HR managers of companies and industry professionals are regularly invited to the campus to interact with the students on career challenges and opportunities.
- Regular industrial visits and educational tours are organized for the students to bridge the gap between industry and institute.
- MoUs are signed between the departments and related industries/ research organizations for effective transfer of technical knowledge.
- The faculty and students of the college are members of various professional bodies such as ISTE, CSI, IEI, IETE, etc. and student chapters of these bodies organize events to keep up with the latest trends in their respective fields.
- The institution invites experts from universities/industry/R&D labs/reputed academic institutes to the college to deliver guest lectures and training programmes for the benefit of the students. Further this also gives exposure to industry about quality of the students and infrastructure of the college, which enhances opportunities for placements.
- The institute has association with Andhra Pradesh government and various industries and professional bodies.

- Training the students in real time environment through Andhra Pradesh State Skill Development Corporation (APSSDC).
- Training the students in upcoming technologies such as Data Analytics and Cyber Security by signing MoU with NAASCOM.
- Training the Students in entrepreneur development in collaboration with Indian School of Business (ISB)
- Guest lectures by industry experts - TCS, VEM Technologies, L&T etc.,
- Guest lectures by experts from R&D establishments - DRDO, BHEL etc.,
- Guest lectures by domain experts from parent university, NITs, IITs, etc.,

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 curriculum is designed and updated by Andhra University and the institution follows the curriculum. During change of regulations and curriculum, our faculty provides feedback and suggestions to the university.

Representation on University Board of Studies:
Andhra University appointed some of the senior faculty from each department in the respective board of studies. Thus, senior faculty of the college involve in curriculum design and development. BOS members from the college represent the department voice in BOS meetings.

Some of the faculty members of the college are board of studies members of other universities and autonomous institutes. This exposure helps their representation in BOS of parent university in effective design and development of curriculum.

The appointed BOS members collect the expectations from the students, faculty, employers and industries about the desired changes in the curriculum and represent the same at university BOS meetings.

Departments also associate with university by giving suggestions and bringing their difficulties regarding curriculum etc., to the notice of respective BOS as and when need arises.

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.

The institution does not involve in developing the curriculum for entire subject or laboratories, but designs the curriculum to fill the gaps. For example, the mechatronics lab for III year, II semester mechanical engineering students does not have the equivalent theory subject in the curriculum given by Andhra University. This shortcoming has been bridged by designing, developing and delivery of the relevant theory part of mechatronics subject separately.

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

Course outcomes are identified in line with programme outcomes to achieve objectives of the curriculum.
Course outcomes are specified by the faculty in their course files and are communicated to the students.
Design of course delivery, assessment and evaluation are carried out with respect to attainment of course outcomes. As the COs are mapped to POs and in turn PEOs, attainment of course outcomes are indicative to the achievement of stated objectives of the curriculum.

Theory Assessment
Attainment of course outcomes of theory subjects is done by careful design of questions in assignments, internal assessment tests etc. and are evaluated in line with programme outcomes.

Assignments
Two assignments are given to students for 5 marks each. The first assignment is on general aspects of the subject and the second one covers the actual subject.

Internal Assessment Test
Two internal assessment tests for 15 marks each are conducted to assess the performance of students.

Seminars
Assessment of students learning and communications skills are attained through seminars by students either in groups or individual.

Laboratory work
Attainment of laboratory course outcomes should be aligned with the theory subject concerned for that lab and this is achieved by careful inclusion of experiments related to theory covered.

Project Work
Course outcomes are also assessed for project work as per the criteria given below:

Preparation
Preparatory work involves background material collection, literature review, identification of existing techniques/solutions, innovation required, review of material, power point presentations.

Project Execution
Appreciation of problems identified, ability to overcome difficulties with a little supervision, technical skills including computing skills and achievement of objectives form a part of project execution.

Report
General content, planning, logical development, readability and clarity, quality of language, quality of presentation, number and relevance of references and quality of discussions/conclusions are assessed in the report work.

Viva voce
Final assessment is done through viva voce by observing manner of delivery, clarity of topic explanation, conduct of project work and results of work completed.

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.

As an affiliated institution, the college cannot offer any certificate/ diploma/skill development courses on its own. However, the college is offering the following certificate courses in association with various governmental agencies:

- Diploma in "Technology Entrepreneur Development" in association with Indian School of Business (ISB) Hyderabad and AP Government.
- Certificate course in "Cyber Security" in association with NASSCOM-APSSDC.
- Certificate course in "Data Analytics" in association with NASSCOM-APSSDC.
- Certificate course in "Mobile App Development" in association with Andhra Pradesh Skill Development Center (APSSDC).

Being a recognized skill development center for APSSDC-SIEMENS, the college is going to offer courses in:

- Advanced Manufacturing Technology (CNC).
- Advances Welding Technology (TIG, MIG, SAW etc.,).
- ICT.
- Home Electronics.
- Four-Wheeler Maintenance.
- Two-Wheeler Maintenance.
- Advanced Welding Technology and several other courses.

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

The university does not permit to offer any of the above programmes.

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. Issues may cover the following and beyond:

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

  All core subjects and electives which help in progression to higher studies are offered.

- **Choice Based Credit System and range of subject options:**

  Limited CBCS is introduced by the university from academic year 2015-16.

- **Courses offered in modular form:**

  No such courses are offered.

- **Credit transfer and accumulation facility:**

  No such facility exists with university.

- **Lateral and vertical mobility within and across programmes and courses:**

  No provision in the university for horizontal and vertical mobility.

- **Enrichment courses:**

- Mobile App development, Data analytics, Cyber security, R Programming, Arduino, PCB design etc, courses are offered in the form of certificate courses in collaboration with various agencies other than parent university.
- Training and Placement Cell is enriched with competent faculty to teach soft skills. They offer courses in special English and communication skills, aptitude and reasoning. These courses are offered from II-I to III-II and the hours are slotted in the regular time-table.
- National skill development center in collaboration with NASSCOM and APSSDC (Andhra Pradesh Skill Development Corporation) offers programmes to enhance technical skills.
- Within the limited scope offered by the university, the institute provides academic flexibility to the students in terms of undertaking projects in allied departments and also in industries/research organizations, thereby encouraging interdisciplinary orientation. Students have the freedom to move across disciplines for their projects/mini projects, Robotics and other interdisciplinary areas. They can also use any laboratory equipment available on campus for purpose of project work/research.
- Industrial/Site visits are arranged for the students starting from III year onwards to understand the practical applications/latest technologies related to the academic curriculum.

To improve potential for employability, the college offers various systematic and continuous training programmes enumerated below:

- Comprehensive soft skills training from II-I to III-II semesters
- A three week Campus Recruitment Training for final year students.
- Online assessment tests are arranged through external agencies like Cocubes etc. to provide a platform for placements in reputed companies.

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.

Since the college is a private self-financing institute, all the programmes offered by the college are self-financing programmes. All the programmes are approved by AICTE and Andhra University.

Mode of admission of UG and PG Courses:

(i) Category-A

The convener of EAMCET/PGECET/ICET fills up 70% of the seats in the institute by allotting candidates to this institute on the basis of their choice.

(ii) Category –B
The remaining 30% of the seats are filled by the institute under the Management quota as per the guidelines given by the APSCHE.

The curriculum:
The curriculum is as designed by Andhra University to which the college is affiliated.

The fees structure:
Fee structure is decided by Andhra Pradesh Fee Regulatory Committee (AFRC) constituted by Government of Andhra Pradesh.

Faculty Qualifications:
Faculty qualification is as per AICTE norms.

Salary structure:
As per AICTE norms.

1.2.5 Does the college provide additional skill oriented programs, relevant to regional and global employment markets? If 'yes' provide details of such program and the beneficiaries.

Campus Recruitment Training is an important and integral part of the institute activity. The college organizes aptitude classes and soft skills lab by incorporating them in the time-tables of II and III years. This enables the students to prepare for campus interviews and also to enhance their employability and interpersonal skills. Apart from this, the departments organize various training programmes for students to enrich their knowledge beyond curriculum to improve their employability. For example, training programmes in Robotics and Arduino are organized in the departments of EEE and ECE. Training and Placement Cell helps the students in honing their skills and the following are some of the programmes organized by the Training and Placement Cell and departments regularly.

S.No.	Programme	Department	Beneficiaries
1	Soft Skills lab	All Departments	II and III year students
2	Aptitude classes	All Departments	II and III year students
3	Campus Recruitment Training	All Departments	III and IV year students
4	Hyper Mesh, Catia, Pro-E, Ansys	ME	III year students
5	Staad Pro	Civil	IV year students
6	Python, VM Ware, Android	IT, CSE	III and IV year students

7	MATLAB,PSCAD, ETAP	EEE	III and IV year students
8	MATLAB	ECE	III and IV year students

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 such facility exists.

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 programs and Institution's goals and objectives are integrated?

The following initiatives are taken up by the college to supplement the university curriculum in line with the institution's goals and objectives:

- Faculty members identify the gaps in the curriculum and include topics to bridge the gaps.
- Further, guest lectures are arranged on specific domains to enrich and enhance students knowledge.
- Students are encouraged to participate in seminars, conferences, technical events, workshops, exhibitions etc.
- The college focuses on soft skills classes to inculcate good communication skills among students.
- A fully equipped digital library is available for students and faculty and is kept open from 8 am to 8 pm from Monday to Saturday and from 10 am to 5 pm on Sundays and public holidays.
- Internet facility is available at 120 Mbps bandwidth in the departments and the central library.
- Additional experiments are included in labs beyond the university prescribed experiments.
- Students are encouraged to undergo industrial training during vacation period and also to take up their projects related to real time practical problems in the industry.
- Students are members of IEI, IETE, ISTE student chapters and other professional bodies and regularly participate in workshops/seminars related to these organizations.

- Industrial tours are organized for students to give exposure to industrial practices and reduce any gap between institute and industry.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

As the college is affiliated to Andhra University, Visakhapatnam, curriculum development is solely in the hands of the university. However the college uses several mechanisms to enrich the curriculum and prepare students to cope with the changing needs of the society as well as industry. These are summarized below.

- Curriculum gaps are identified for each course and every care is exercised by the course coordinator to fill them by making the faculty deliver the content to students. The college has given flexibility for the faculty to take extra classes for each course.
- The college organizes aptitude classes and communication skills lab by incorporating them in the time-tables of II and III years. This enables the students to prepare for campus interviews and also to enhance their employability and interpersonal skills.
- Departments organize various training programmes for students to enrich their knowledge beyond curriculum to improve their employability. For example, training programmes in Robotics and Arduino were organized in the departments of EEE and ECE.
- The students are encouraged to take up mini projects and main projects related to the real time problems. If necessary, students are sent to industries or research organizations to collect the data, carry out analysis and suggest probable solutions.

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?

- No gender discrimination is shown in any aspect.
- To maintain gender equality, two class representatives are selected, one from boys and the other from girls.
- The college being co-educational, male and female students together form teams and work together in the laboratories, group assignments, mini and major projects and events conducted at department level or college level.
- Environmental Studies is introduced to all the students to know the concepts of eco system and its function in the environment. Through the subject, students can understand the social issues in both rural and urban environment and the possible means to combat the challenges.

- The programmes like tree plantation are being organized inside and outside the campus.
- Bicycle users are encouraged and awarded with certificates with a title "Environment Friendly Student".
- The institution has a Women Protection Cell to handle sensitive issues pertaining to Women's rights and security. The Cell is comprised of senior female faculty members from all the departments.
- Complaint boxes are arranged in the campus by the Grievance Redressal Cell to deal with academic and personal issues of students. Further a counseling system is evolved for students to approach their counselors regarding their problems.
- NSS and Sports center as well as Civil Engineering Department focus on activities that deeply impress environmental consciousness among all. The campus is made plastic free and the ambience fosters love of nature.
- Special talks are arranged to empower students hailing from marginalized sections of society, such as SC/ST and OBC and Minority students. The rights and privileges of women are also driven home by experts for the good of the students.
- A research center namely SWAN is established exclusively to address research in the areas of environmental, ecological, land and water management aspects of the coastal tracts of the region.

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

§ Moral and ethical values
§ Employable and life skills
§ Better career options
§ Community orientation

The institution offers several value-added courses such as ISB, APSSDC etc. certification course.

Moral and ethical values

- Guest lectures are arranged on moral and ethical values to students with experts from organizations such as Brahmakumaris, Art of Living, etc.
- With the help of local police and judiciary, lectures are arranged for II year students on road safety, code of conduct etc.
- Anti-ragging being a serious menace, from the time of induction and orientation of students, awareness is raised against ragging practice. The same is communicated through display of anti-ragging posters prominently throughout the college and also through various awareness programmes conducted by local authorities.

- The university curriculum has introduced a subject on ethics namely 'Professional Ethics and Moral Values' (ENG 1109) in view of the societal and industrial needs.
- In addition to this the college also arranges various personality development programmes by reputed persons from time to time for holistic development of students.

Employable and life skills

The need for good communication skills in today's global village and its importance for making a student employable are well understood by the college. Hence:

- Students are encouraged to take up multi-disciplinary projects to inculcate team work.
- Resource persons are invited to conduct workshops on the development of communication competence among the students.
- Students are also given different responsibilities in organizing various activities such as cultural programmes, competitions, seminars, workshops etc. This improves team building, leadership qualities and organizational skills.
- Students are encouraged to participate in quizzes, group discussions, workshops etc.

Better career options

To improve employability and better career opportunities, students are encouraged to participate in

- Campus Recruitment Training Classes.
- Soft skills training.
- Training in Robotics, Staad Pro, Mat Lab, PSCAD, Pro-E, Catia, Hyper Mesh, Ansys, etc.
- Python, VM Ware, Android, etc.
- APSSDC skill development courses.
- Indian School of Business entrepreneurship training.

The institute also assists the students who are appearing for GATE, GRE and TOEFL etc.

Community orientation

Many community oriented tasks are regularly conducted and students take part in them enthusiastically.

- Students of the college offer their services to rehabilitation centers such as old age homes.
- Practices like planting trees, road safety awareness campaigns, earth hour campaign etc., are encouraged to generate social awareness among our students.
- Through NSS programme, students are involved in social service through various activities such as blood donation camps, smart pulse survey, etc.
- Independence Day, Republic Day, Engineer's Day, Teachers Day, World Environment Day, etc are observed with due respect and sincerity.
- SWACHA BHARAT in the campus as well as nearby villages is conducted with great enthusiasm.
- Literacy camps are arranged in nearby villages as a part of NSS programmes.

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

- Feedback is taken on all aspects including curriculum and training programmes from the students regularly in each semester. The views of the students on curriculum are well received and their relevant suggestions are communicated to faculty and members of BOS of the affiliating university.

- The institute collects feedback from the recruiters on the performance of students both during the recruitment process and also after they are placed. This enables the institute to understand what industry expects from the students and act accordingly.

- Every year, the institute organizes alumni meet and parents meet, and feedback is collected from them for improvement.

- Inputs received from students, alumni, parents and employers are analyzed to improve the overall competency of the students.

As requested by stakeholders during feedback, the following steps were initiated.

- Parents are intimated on absenteeism of their children/wards as per their request.
- In response to the feedback from industry, special classes in C and Data Structures are conducted.

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

Based on the analysis of the feedback, the institution decides to roll out suitable modules of enrichment programmes.

The quality of enrichment programmes are evaluated by:

- Performance of the students in the internal and university examination.
- Participation in technical quiz competitions.
- Number of innovative projects carried out.
- Papers presented in seminars and prizes won.
- Understanding shown in lab experiments and answering in viva voce.

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 institute is affiliated to Andhra University, Visakhapatnam, and the structure and the syllabus developed at university level is followed for all the UG and PG programmes in the institute. Curriculum is updated regularly and the university invites representatives from the institute to put forward their views on behalf of the institute and incorporates the suggestions made while designing curriculum. The draft curriculum is made available to the institutions for comments from the faculty. Suggestions made by the senior faculty are discussed within the institute and the summary is communicated to the university. Also some faculty members represent the institution as members of BOS. For example, HODs of CSE and IT departments are members of BOS of their respective departments of Andhra University. Some of our faculty members are also members of BOS of other universities like Adikavi Nannayya University and autonomous institutions.

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 programs?

The college obtains feedback from all the stakeholders i.e. students, alumni, employers, parents and experts from academia.

Students

The HOD and senior faculty periodically meet the student representatives to discuss academic issues. Any difficulties expressed by the students, if relevant are noted and communicated to the university either through the faculty who are members in the various BOS etc. or forwarded to the university when suggestions are invited during syllabus revision.

Alumni
Alumni meets are organized to obtain their views on curriculum and training and their suggestions are recommended for necessary modifications in the curriculum to the university and suggestions related to teaching-learning process are incorporated. Alumni visiting the college or its website give constructive suggestions to help the students achieve greater focus and improve themselves.

Employers/ Industries
The institute collects feedback from the recruiters on the performance of students of the institute both during the recruitment process and also after they are placed. This enables the institute understand expectations of the industry from the students and act accordingly. This gives required input to start new programmes.

Academia
The college is often visited by academicians in India and abroad. Their views on the curriculum are obtained and efforts are made to incorporate the same.

1.4.3 How many new programs/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programs? Any other relevant information regarding curricular aspects which the college would like to include.

New programmes were not introduced in the last four years. After looking into buoyant conditions prevailing in the state as well as in the country, the college is closely observing the socio-economic conditions of the region, employability, public perception and other important aspects. Since the institution is a private self-financing institution and solely depends on student tuition fee, viability is the important aspect to be studied carefully before introduction of any new programme.

CRITERION II

TEACHING - LEARNING AND EVALUATION

CRITERION II

TEACHING-LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

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

The college, established in 1989, is well known for providing quality education to many and is one among the 18 first generation private engineering colleges in the state. The admission procedure into various programmes of the college is governed by the rules and regulations framed by the Andhra Pradesh State Council for Higher Education (APSCHE), a statutory body of the Government of Andhra Pradesh. The State Council of Higher Education, Government of Andhra Pradesh offers wide publicity for admission into different institutes in Andhra Pradesh for UG and PG Programmes in Professional courses like B.E./ B.Tech., M.E./M.Tech., MBA and MCA. It gives notification for EAMCET which is a test for admission into B.E./ B.Tech., ECET (FDH) for admission into B.E./ B.Tech., lateral entry (II Year), PGECET for admission into M.E./M.Tech., and ICET for MBA and MCA. Detailed information for admission into above programmes is made available through authorized website of APSCHE (http://www.apsche.org). The admission procedure is transparent and is based on merit and counseling for admission is done by APSCHE. Hence, there is no scope for any deviation.

The college ensures publicity and transparency in the admission process in the following ways:

Publicity

Advertisement in Regional/National dailies

An advertisement is issued in leading national/regional daily newspapers by Andhra Pradesh State Council for Higher Education during the admission time. Apart from advertisement by APSCHE, publicizing is done by the college primarily through advertisements in leading local and national newspapers before the commencement of annual admission procedure. The advertisement details normally include programmes offered, admission procedure, infrastructure and facilities provided by the college.

Publicizing on college website

Publicizing is also done on the college website http://www.sircrrengg.ac.in which provides latest and extensive details of the college, its infrastructure, intake, courses, laboratories, faculty, training and placements etc.

Publication in the college prospectus and other methods

The institute publishes the college prospectus every year and ensures that all the data provided in the prospectus is genuine and up-to-date.

By means of mouth publicity from alumni, major part of our college seats are filled by their near and dear ones.

Publicity is also done by the participants from different colleges attending various national level technical symposiums conducted by the college.

Transparency

A transparent online admission procedure is employed by APSCHE for admissions into Category-A while Category-B admissions are made based on the merit list from the list of eligible applied candidates which is carried out by the college as per stringent norms of APSCHE.

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.

The institution is affiliated to Andhra University, Visakhapatnam and governed by the admission process as per APSCHE guidelines. All the admissions are made on the basis of merit only.

Admission to Engineering

This institute offers 6 UG and 5 PG courses in Engineering. As per Andhra Pradesh State Council of Higher Education (APSCHE) norms 70% seats (A-category) of UG and PG programmes are filled through centralized admission processes organized by the government (EAMCET for B.E./B.Tech. and GATE/PGECET for M.E./M.Tech.). The remaining 30% seats (B-category) are filled by the institution duly following the APSCHE guidelines. Notification is given by the institution in the popular newspapers calling for applications for B-category seats. Application form for B-category seats is made available in the college website. Merit list is prepared from the applications received and is placed in the college website and notice boards.

At present priority is based on JEE main rank followed by APEAMCET rank and marks in qualifying exam for admission in B.E./B.Tech. for B-category seats. 20% super numeric seats of II B.E./B.Tech. are filled with diploma holders by APSCHE based on their ranks obtained in ECET (FDH) and reservation policy of State Government.

Admission to MCA and MBA

This institute offers PG programmes in MCA and MBA. As per APSCHE norms 70% of seats are filled through centralized admissions organized by the convener, ICET. The remaining 30% B-category seats are filled by the institution following the same guidelines as per B- category admissions into engineering.

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 admissions into UG/PG technical courses in Andhra Pradesh is based on the common entrance tests EAMCET, PGECET and ICET respectively. The best and last ranks of the students admitted under various categories in the academic year 2016-17 in comparison with the colleges within the city is as indicated below:

UG Programme B.E. / B.Tech.

Category	Sir C R Reddy College of Engineering		Ramachandra College of Engineering		Eluru College of Engineering and Technology	
	Best	Last	Best	Last	Best	Last
ECE						
Gen Boys	4897	23818	15892	96638	27804	55602
Gen Girls	10317	27256	25394	109688	24426	55588
BC Boys	9124	99313	47791	130902	39546	124668
BC Girls	9010	107768	18910	109879	17531	86201
SC Boys	18114	121626	49975	129349	87824	130796
SC Girls	30265	106184	89637	128896	34104	120501
ST Boys	105501		101817		--	
ST Girls	--		--		--	
CSE						
Gen Boys	9967	57441	48721	60085	40183	87111
Gen Girls	2822	27235	6971	65885	20821	115214
BC Boys	15635	85985	34578	127848	46215	111100
BC Girls	12247	98741	27872	125517	23279	127706
SC Boys	23868	129375	129594	135979	--	
SC Girls	40147	132495	114917	130930		
ST Boys	--	--	--	--	--	
ST Girls	--	--	--	--	--	
EEE						
Gen Boys	26024	121658	48721	60085	58113	87507

Gen Girls	13013	114337	6971	65885	25346	85411
BC Boys	20123	128017	34578	127848	16438	122816
BC Girls	26931	69523	27872	125517	21391	132940
SC Boys	53992	135915	129594	135979	70043	131509
SC Girls	20799	118991	114917	130930	99501	112979
ST Boys	--		--		--	
ST Girls						
ME						
Gen Boys	11620	55910	32485	133272	40310	115202
Gen Girls	47246	96711	--		--	
BC Boys	7448	132862	42247	135200	42448	135528
BC Girls	--		--		--	
SC Boys	37108	131414	123654	135260	44773	1375961
SC Girls	--	--	--	--	--	--
ST Boys	--	--	--	--	107525	
ST Girls	--	--	--	--	--	--
CIVIL						
Gen Boys	16022	33501	47513	133369	Course not offered	
Gen Girls	10138	53463	42808	116631		
BC Boys	24298	121627	74333	131930		
BC Girls	43740	131626	45353	79802		
SC Boys	36709	128526	137553			
SC Girls	100023	135766	116769			
ST Boys	--		--			
ST Girls						
IT						
Gen Boys	23773	88645	Course not offered		Course not offered	
Gen Girls	25592	122363				
BC Boys	45925	128056				
BC Girls	50451	125151				
SC Boys	12553					
SC Girls	129280					
ST Boys	109861					
ST Girls	--					

PG Programme M.E. / M. Tech.

Category	Sir C R Reddy College of Engineering		Ramachandra College of Engineering		Eluru College of Engineering and Technology	
	Best Rank	Last Rank	Best Rank	Last Rank	Best Rank	Last Rank
M.Tech. - Computer Science & Technology						
Gen Boys	1613		--		Course Not Offered	
Gen Girls	639	1740	103	967		
BC Boys	729		1215			
BC Girls	133	2554	--	--		
SC Boys	--	--	--	--		
SC Girls	--	--	822	3275		
ST Boys	--	--	--	--		
ST Girls	--	--	--	--		
M.Tech.-VLSI						
Gen Boys	339	365	--		675	
Gen Girls	506	1153	571		--	
BC Boys	1582	18672	1911		1668	32233
BC Girls	--	--	252	2836	--	--
SC Boys	1400	47613	3258		5307	5400
SC Girls	822		--	--	3530	
ST Boys	--	--	--	--	2264	
ST Girls	--	--	--	--	--	--
M.Tech. - Communication Systems						
Gen Boys	--	--	Course Not Offered		Course Not Offered	
Gen Girls	--	--				
BC Boys	668	4962				
BC Girls	1069	19409				
SC Boys	687					
SC Girls	1051					
ST Boys	--					
ST Girls						
M.Tech. - Power Systems And Automation						
Gen Boys	353	15188	Course Not Offered		Course Not Offered	
Gen Girls	--	--				
BC Boys	853	1768				
BC Girls	808	2122				
SC Boys	1902	2355				
SC Girls	--	--				
ST Boys	--	--				

ST Girls	--	--			
M.Tech. - Machine Design					
Gen Boys	245	248	18420		Course Not Offered
Gen Girls	613		--	--	
BC Boys	176	1631	210	2969	
BC Girls	--	--	--	--	
SC Boys	1288		846	3863	
SC Girls	--	--	--		
ST Boys	--		--		
ST Girls					

PG Programme MCA and MBA

Category	Sir C R Reddy College of Engineering		Ramachandra College of Engineering		Eluru College of Engineering and Technology	
	Best Rank	Last Rank	Best Rank	Last Rank	Best Rank	Last Rank
MCA						
Gen Boys	6573	27016	Course Not Offered		Course Not Offered	
Gen Girls	2763	52287				
BC Boys	9287	19615				
BC Girls	9628	15577				
SC Boys	--					
SC Girls						
ST Boys	--					
ST Girls						
MBA						
Gen Boys	660	11787	7055	51238	6948	9150
Gen Girls	1013	22357	512	52015	3597	48145
BC Boys	7005	50451	301	51999	3624	43441
BC Girls	4052	52050	7226	53590	3487	53133
SC Boys	10650	29759	25340	54848	18125	52855
SC Girls	1861	42131	25902	56401	12560	54607
ST Boys	--	--	--	--	--	--
ST Girls	--	--	--	--	--	--

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?

The admission process of students is governed by APSCHE. However, every academic year, the institute collects detailed information about the students on academic background, demographic background, economic status, gender representation in addition to their branch preferences through Academic Cell. This helps in understanding the market trend, industry expectations and other relevant factors important in the society. This process helps in reducing the gaps in teaching learning process thereby increasing the existing students satisfaction.

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 of

SC/ST

OBC

Women

Differently abled

Economically weaker sections

Minority community

Any other

Equity in seat allocation to EAMCET rank holders is ensured through the reservation quota, specified by the APSCHE of the Government of Andhra Pradesh. The reservation of seats for different socio-economic categories is as indicated below:

- Women : 33.33 %
- Backward caste : 29%
- Schedule caste : 15%
- Scheduled tribes : 6%
- Physically handicapped : 3%
- Children of armed forces : 2%
- NCC : 1%
- Sports / Games : 0.5%

Thus, students are allocated to the institution as per the above prescribed norms of reservation. Government norms are followed in the pattern of admission in the college.

Category wise students admitted - UG

B.E./B.Tech.

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	76	39	75	29	56	17	65	25
ST	3	0	5	2	2	1	8	1
OBC	243	100	273	102	236	112	219	93
General	162	141	188	137	198	146	127	96
Total	484	280	541	270	492	276	419	215

Category wise students admitted under - PG

M.E./M.Tech.

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	6	0	7	3	6	7	12	8
ST	0	0	1	0	2	2	0	0
OBC	19	12	12	21	17	19	32	22
General	9	9	4	14	13	16	13	14
Total	34	21	24	38	38	44	57	44

MBA

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	3	4	7	1	7	2	8	1
ST	0	0	2	1	2	2	0	0
OBC	12	8	17	6	15	6	14	14
General	12	8	11	8	9	7	7	11
Total	27	20	37	16	33	17	29	26

MCA

A.Y	2016-17		2015-16		2014-15		2013-14	
Category	Male	Female	Male	Female	Male	Female	Male	Female
SC	1	0	0	0	1	2	0	1
ST	0	0	0	0	0	1	0	0
OBC	4	4	5	7	5	5	8	3
General	6	7	16	4	13	8	5	13
Total	11	11	21	11	19	16	13	17

Category wise students admitted - total Students (UG +PG)

Categories	2016-17		2015-16		2014-15		2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	86	43	89	33	70	28	85	35
ST	3	0	8	3	6	6	8	1
OBC	278	124	307	136	273	142	273	132
General	189	165	219	163	233	177	152	134
Total	556	332	623	335	582	353	518	302

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 institution is offering B.E./B.Tech., M.E./M.Tech., MCA and MBA courses.

For all the above courses 70% of the admissions are through state wide common entrance and counseling process, the college does not receive any applications directly. 30% of the management quota seats are filled as per guidelines released by State Government through various G.Os under strict surveillance of APSCHE.

The demand ratio for the admissions under category-A cannot be analyzed as the entire process of student preferences and seat allocation is made online by APSCHE and the data cannot be acquired by the institute. Admissions under category-B alone, do not give true demand ratio as fee reimbursement by government is not applicable for this category. The total number of seats filled for the past 4 years in different branches is as given below.

Programmes	Sanction intake	No: of students admitted	Demand Ratio	Sanction intake	No: of students admitted	Demand Ratio	Sanction intake	No: of students admitted	Demand Ratio	Sanction intake	No: of students admitted	Demand Ratio
UG												
	2016-17			2015-16			2014-15			2013-14		
CSE	180	180	**1**	180	180	**1**	180	173	**0.96**	180	144	**0.8**
ECE	180	179	**0.99**	180	176	**0.98**	180	174	**0.97**	180	143	**0.79**
EEE	180	119	**0.66**	180	161	**0.89**	180	147	**0.82**	180	130	**0.93**
IT	120	119	**0.99**	120	112	**0.93**	120	95	**0.79**	120	37	**0.31**

ME	120	109	**0.91**	120	117	**0.98**	120	119	**0.99**	120	120	**1**
CIVIL	60	58	**0.97**	60	60	**1**	60	59	**0.98**	60	60	**1**
PG												
M.Tech. CST	36	11	**0.31**	36	15	**0.42**	36	23	**0.64**	36	34	**0.94**
M.Tech. CS	24	8	**0.33**	24	11	**0.46**	24	17	**0.71**	24	17	**0.71**
M.Tech. VLSI	18	8	**0.44**	18	11	**0.61**	18	13	**0.72**	18	18	**1**
M.Tech. PS and A	24	14	**0.58**	24	16	**0.67**	24	20	**0.83**	24	19	**0.79**
M.Tech. MD	18	14	**0.78**	18	9	**0.50**	18	10	**0.56**	18	13	**0.72**
MBA	60	46	**0.77**	60	53	**0.88**	60	50	**0.83**	60	55	**0.92**
MCA	60	23	**0.38**	60	31	**0.52**	60	35	**0.58**	60	30	**0.50**

Reasons for increase/decrease

Nearly 100% demand ratio is evident in the B.E./B.Tech. courses from the above table. Any number marginally less than 100% is due to last minute dropout of some of the students, who get admission into NITs and IITs as the last phase of admission in premier institutions is held after completion of admission process by APSCHE.

However, the institution records 100% admission every year during first phase of admission process in A- category.

It is also evident from the above table that demand for M.E./M.Tech. programmes is gradually diminishing. This is due to reduced demand for M.E./ M.Tech. programmes, year by year. As per AICTE dash board, the seats available in 289 institutions are 28,607 and the candidates admitted during 2015-16 are 15,507.

Actions initiated for improvement

The college is taking measures to step up the demand ratio to 1 for all courses by enhancing the placement opportunities, improving the teaching-learning methodologies and enhancing the infrastructural facilities beyond the curriculum requirements.

2.2 Catering to Student Diversity

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 adheres to the Government policies and norms to support the differently abled students.

- Class work is conducted in convenient rooms.
- Seats are reserved for them in the front benches of the classrooms.
- In case of extreme physical disability, class work of that particular section is arranged in the ground floor and in some blocks there is a provision of lift.
- Required human assistance is provided.
- A wheelchair is provided at the entrance for the transport of differentially abled students and for the needed.
- Arranging scribes as per university norms.
- Ensuring required medical assistance.
- Providing required assistance from technicians in laboratories.
- Railings and lifts are provided for differently abled students.
- Extra time is allotted for laboratory classes and special care is taken.

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

After allotment of students by government, data collected during survey of students by Academic Cell at the time of admission is analyzed and the shortcomings of students are identified by examining EAMCET and intermediate marks in various subjects. Further, their communication skills are also assessed taking into consideration their marks and demographic background. Based on these inputs, orientation programme is designed which emphasizes the following:

- Remedial/Bridge courses are conducted in Mathematics, Physics, Chemistry and English for weak students.
- Special classes are organized for the lateral entry students who are admitted in II Year.

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

The following Bridge/Remedial/Add-on/Enrichment courses are conducted to fill the knowledge gap experienced by enrolled students in their respective domain:

- Personality development programmes are conducted to improve their personality and to motivate them to be innovative and creative.
- Communication Skills lab has been established to improve English

proficiency of the students particularly those coming from rural areas.

- Extra classes for soft skills are conducted.
- Experts and scientists from the industries and research are invited to deliver lectures to bridge the knowledge gap of the enrolled students.
- Special training to students is provided by conducting add-on courses to minimize the knowledge gap of the students during the regular class.
- Faculty members put in extra efforts for the improvement of students by giving information on content beyond syllabus to enrich their knowledge.
- In-plant training is provided to the students to fill their knowledge gap.
- Additional laboratory exercises are conducted for the enrolled students during the evening time beyond the scheduled class time.
- Industrial visits are arranged to make students understand the practical applicability of various theoretical aspects that are learnt in the class room.
- E-learning material is made available (NPTEL etc.) for self-paced learning.
- Class tests are conducted for students to assess their level of knowledge by which the teacher modifies his/her teaching methodology.
- Workshops on the Art of Living, speeches by Brahmakumaris and sessions by popular psychologists like Dr.B.Pattabhiram are arranged to change the mind set of students.
- Special mathematics classes for lateral entry students are conducted.

ART OF LIVING GOAL SETTING BY Dr.B.PATTABHIRAM

SESSION ON CAREER BUILDING GUEST LECTURE ON CREATIVITY

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

To sensitize staff and students on issues such as gender, inclusion, and environment the institute performs the following:

- To maintain gender equality, two class representatives are selected one from boys and the other from girls.
- All staff members in the institution are treated on equal lines.
- The staff members and students are treated equally on religious grounds.
- Institute has set up Women Protection Cell that functions separately for the benefit of the women employees and girl students.
- Institute celebrates Women's Day and organizes seminars regularly on women empowerment. Institute organizes events like hostel day, get-together, knowledge enhancement lecture series, annual social function to promote harmony and inclusion.
- The college sensitizes its staff and students on issues such as environment etc. by conducting seminars on relevant topics like pollution control etc.
- Professional ethics and morals and Environmental studies are part of the regular curriculum.
- The students also involve in social service activities like clean and green programmes (Swatch Bharat), plantation, health checkup camps, blood donation camps, fire safety measures etc.

SEMINAR ON SAVE WATER SEMINAR ON GREENERY & HUMANKIND

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

Advanced learners are continuously encouraged to strive for higher goals by providing them additional inputs for better career planning like:

- Assigning them seminar topics and taking their assistance for coaching slow learners.
- Devising challenging assignments which commensurate with their skills.
- Offering them special assistance in preparation for GATE, GRE and IES exams.
- Involving them in personality development programmes in regular classes.
- Assigning them mini projects which involve field surveys and industrial visits to inculcate research orientation and providing financial assistance for the same.
- Motivating students to present papers in seminars / conferences.
- Advising them to participate in classroom seminars, group discussions, technical quizzes to develop analytical and problem solving abilities in them to improve their presentation skills.
- Motivating to access latest online journals and reference material to understand the emerging trends in their field of study.
- Training them in the use of audio visual aids like power point, charts, models etc. for effective presentation.
- Encouraging them to attend science expos in order to design and execute working models to give shape to their inherent ideas.
- Giving opportunities to develop their creativity by organizing intercollegiate as well as national level technical, cultural, literary and sports competitions.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the program

duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- The institute has a counseling procedure for every student through which the student is assessed in terms of academic performance and corrective procedure is adopted for those who are from the disadvantaged section.
- Slow learners are identified through observation of their performance in class tests and first mid examinations, and remedial classes are conducted.
- Students with psychological/emotional problems are also motivated in a friendly way so as to reduce the risk of discontinuing their studies.
- Students from economically weaker sections are backed up by the institute through information regarding EBC scholarship, different government schemes and education loan facilities.
- Fee reimbursement is being done for the economically backward students with the support of AP Government.
- Under-performing students have a tendency to miss the class work. Regular SMS and monthly reports are sent to parents of such students and they are advised to counsel their wards in addition to the counseling done in the college.
- The faculty members generally make their lecture notes available to the slow learners.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blueprint etc.)

- The college has to follow the academic calendar prepared by Andhra University to which the college is affiliated.
- The concerned HOD conducts meeting with all the faculty members to discuss the necessary steps to be taken to improve the academic standards and allots subjects based on their interest and expertise.
- Every faculty member prepares his/her lesson plan for teaching as per the syllabus at the beginning of the semester.
- Time table is prepared by HOD, displayed on the departmental notice board, and circulated to the students. Course coverage is monitored by HOD and reported to the Principal. Wherever a deviation is observed, the HOD seeks clarification from the faculty member concerned.
- The evaluation procedure for both theory and lab exams is kept transparent. The teacher issues answer scripts of the periodical tests to students and internal lab examinations with his/her comments. Discrepancies reported by any student are verified and necessary action is taken before the marks

statement is finalized.
- Mentoring programme and continuous evaluation system is a regular academic process for quality improvement in the institute.
- Class work Review Committee headed by HOD reviews periodically the coverage of syllabus and depending on necessity, time tables are changed and modified so that syllabus is completed within the stipulated time.

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

The IQAC which is set up now will take up the following activities:

- Improve quality of teaching-learning, assessment, evaluation activities confirmed to OBE.
- Develop benchmarks/parameters for various academic activities of the institute.
- Conduct internal quality audit periodically.
- Recommend innovative teaching-learning methods.

2.3.3 How learning is 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?

At the beginning of each academic year, the college organizes faculty development programme with senior faculty of the college as resource persons for newly inducted faculty to improve their teaching skills and also make them conversant with the intricacies of teaching-learning processes. The skills learnt are effectively implemented during the regular class work. These programmes ensure interactive and dynamic learning, and include the following:

- Assignments related to general and specific areas of subjects to improve independent learning.
- Use of LCD and ICT for visual learning and appreciation of some of the practical applications of the theoretical aspects.
- Tutorial classes are conducted as per curriculum to ensure collaborative learning in the class room.
- Organizing guest lectures and industrial visits for students to develop their interactive, collaborative and independent learning.
- Providing e-class rooms and seminar halls in each department for students to participate in group discussions, debates and seminars.
- Library and internet facility are available in every department. The central library provides access to journals, e-material, e-books etc., through DELNET to enable the students and faculty to keep abreast of the latest

developments in their respective fields.

- Free Wi-Fi connectivity is available to all the students in the college for wider access to internet.
- The college has a well stocked library which consists of huge number of books, journals, project reports and other teaching material for the use of students and faculty to enable independent learning.
- The students are motivated to participate actively in the student chapters like SUMMITE etc., wherein they interact with outside world.

GUEST LECTURE IN SUMMITE EVENT BROWSING CENTRE

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 has "Young Researchers club" and "Robotics Club" as platforms for the young enthusiasts to showcase their talent and creativity.

- Students are encouraged to participate in model making, paper presentations, software contests and various co-curricular activities in various national level events organized in and outside the college.
- The scientific temper among students is enhanced by providing additional laboratory hours and research activities.
- Students are encouraged to participate in project competitions and workshops with hands-on experience.
- Guest lectures and seminars are organized in the college to enable the students to interact with eminent faculty on the latest developments in technology. This creates an interest in the minds of the students for further learning.
- Students are encouraged to take up live/industry projects. All these activities generate interest in the students to go for higher level of learning i.e., innovation, application to societal problems from lower level of learning like memorization, problem solving, understanding, gaining knowledge etc., and make them life-long learners and innovators.

- This encouragement has manifested in the form of creating the software "Passport verification system of West Godavari District Police" which has brought down the use of paper and quick passport approval.
- The college has a feedback system which has been designed by the students to eliminate the time taking manual analysis procedure and to reduce the use of paper.

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 Program on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education etc.

Apart from traditional classroom teaching practices, faculty members are encouraged to use ICT-enabled teaching pedagogy. The teacher uses the interactive whiteboard in ways that engage students, including student use of the board, gaming applications and actions based on student responses. The faculty members are encouraged to use the college website to provide information to the students regarding assignments, time table, important dates, study material and many more. The teacher encourages students to use online resources and helps build online research skills, resulting in quality of information obtained.

Technology and facilities available and used by the faculty:

- Education through NME-ICT.
- Computers with wired and wireless internet facility for all faculty.
- Use of multi-media projectors and power point presentation.
- E-learning through digital library.
- Open educational resources.
- Language laboratory.

- NPTEL Videos.

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

- The institution has been tied up with Andhra Pradesh Skill Development Corporation and thus students are trained in upcoming technologies via Android, R Programming etc.
- MOU with NASSCOM enables students to get advantage of exposure to Data Analytics and Cyber Security.
- It is mandatory for the faculty to attend at least one short term training programme in upcoming technologies in a year.
- In house training programmes are arranged to train the faculty in various software in Mechanical, Civil, Electrical and Electronics departments.
- Industry personnel are invited to share their knowledge with students/teachers to make them aware of the industrial needs.
- Industrial training for two weeks with two credits is mandatory for all pre-final year students during summer vacation.

A.P STATE SKILL DEVELOPMENT CENTRE WORKSHOP ON R PROGRAMMING

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?

- Every year the college brings experts in psychology like Dr. V.V. Swaroop and Dr. B.V. Pattabhiram to address the students in the fresher's orientation class at the beginning of academic year, so that the new students joining the college can cope with the stress of engineering studies.
- For every group of 20 students in the class, a counselor is appointed who looks after all personal and academic problems of the students. Counselors

motivate the student to develop positive attitude. Necessary support is provided for the needy students.

- Career counseling and guidance is provided for pre-final and final year students to assist them in selecting their future course of action.
- Workshops are arranged by experts from Brahma kumaris, Art of living etc.

SPEECH ON YOGA BY BHRAMAKUMARIES CAREER COUNSELING

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 faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Apart from chalk and talk method, faculty adopt innovative teaching methods to supplement the normal class room teaching. Some of the practices adopted by the faculty during the last four years are:

- Introduction of OBE drastically changed the teaching – learning – assessment-evaluation methods and techniques during the past one year.
- Faculty members are readjusting their teaching methodologies and techniques as per the students feedback on assessment and evaluation.
- OBE facilitates the faculty to adopt themselves to cognitive levels of teaching - learning systems and methodologies.
- Explanation of the concepts using demonstration of models/cut sections/charts wherever necessary to understand and clearly interpret complex concepts and applications.
- The students are encouraged to use computer software packages for analysis and experimental work of their projects. Seminars are conducted regularly every year to bring out inherent talents of the budding engineers.
- Students are also encouraged to give seminars, especially in the pre-final year to inculcate confidence in them and enhance their presentation skills.

- Faculty members are encouraged to attend refresher courses, workshops and seminars so that they can improve their skills and transfer the knowledge to the students in a better way.
- This institute follows a sound strategy in assignments and these are categorized into two types:
  - First assignment includes general questions related to subject prepared by the faculty and the students are asked to submit solutions by referring text books and other e-learning materials. This assignment aims to recognize the importance of the subject in curriculum, basic understanding of subject and its applicability in real time scenario.
  - Second assignment is based on old question papers of the university and it aims to let the students know the type of questions asked in university examinations which helps them to secure good grade in university exams. It is proved that these assignments ensure slow learners to secure better grade along with others.

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

Library is the epicenter of learning process; the college has taken several steps to make it a center of learning. Some of these are:

- Computer center in central library is completely networked and has internet access.
- The library is fully computerized using OPAC system covering almost all the functions of library. All the books are bar-coded and barcode laser scanners are used in the circulation counter for quicker book transaction.
- Separate reading sections for faculty and students are available.
- The library operates beyond college hours.
- Daily newspapers, magazines and journals are subscribed in the library.
- In addition to the well stocked-Central Library, each department has a departmental library to facilitate easy access to the faculty and students.
- The central library in the college is built in 4454 sq. m area with all modern facilities.

Digital library

Number of Computers : 116 with multimedia with internet connectivity.

E-Learning Material : NPTEL etc

The digital library serves the following functions:

- Students are encouraged to utilize e-learning material available in the library.

- Faculty and students go through video lectures like NPTEL etc.
- Library and internet centre are kept open beyond regular working hours for effective use of the reference section and internet which equips the students with additional information.

DIGITAL LIBRARY LIBRARY-REFERENCE SECTION

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.

- The faculty members are given sufficient number of teaching hours in order to cover 100% content specified by university.
- Total number of hours engaged in lecturing and laboratories is 20% more than that of university specification.
- 40-44 contact hours are engaged per week against University specifications of 30-34 hours.
- However, unforeseen interruption to class work due to circumstances beyond the control of the institute is compensated by conducting extra classes beyond working hours/holidays.
- HODs of every department review the syllabus coverage periodically in every subject and take suitable measures to ensure that the syllabus is completed well in time.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The institution adopts transparent monitoring system to maintain the quality of teaching-learning process:

- Allotment of subjects takes place one month ahead of every semester.
- Faculty members are given choice of subjects based on their previous track

record in dealing with the particular subject.

- Lesson plan is reviewed by the course coordinator before beginning of the semester.
- Lesson plan is modified based on previous year's inputs.
- Assessment methods are checked by the course coordinator for conformity with COs.
- Attainments are calculated and reviewed at the end of each assessment and evaluation.
- Course end survey is taken from the students on attainment of COs.
- Mid semester feedback helps in review of teaching-learning process.
- Partial attainment of POs is checked at the end of the course.

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.

Recruitment

The process of recruitment generally begins prior to the start of each academic year and all the faculty positions are filled as per the norms of AICTE.

- Identification of vacancies in the departments is done by the concerned HODs.
- Approval to fill the vacancies is obtained from the managing committee.
- Public advertisement of faculty requirement is placed in popular newspapers.
- Upon receiving the applications from aspiring teachers, eligible teachers are short listed by the department.
- Short listed candidates are intimated to attend interview.
- Interviews are conducted by a selection committee comprising subject experts invited from reputed universities/colleges.
- Candidates short listed based on experience and merit are given offer letters.

However, in case of urgent need, if well qualified persons are identified by the management, direct recruitment is done by the Management Committee in consultation with the Principal.

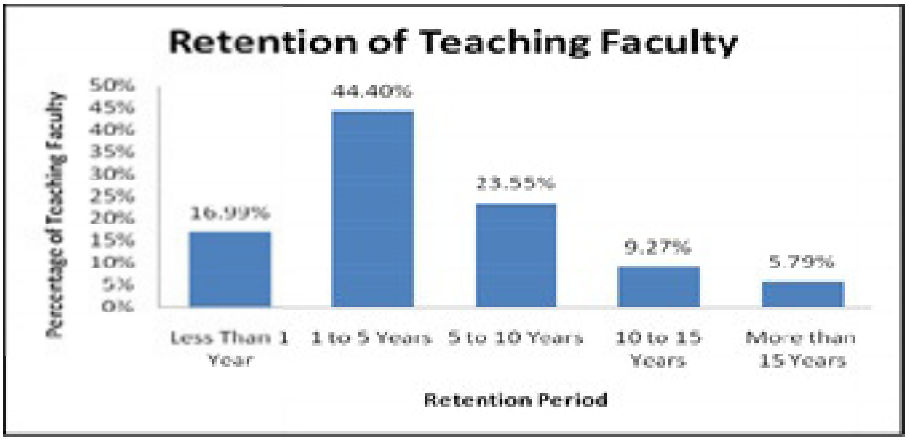
Retention

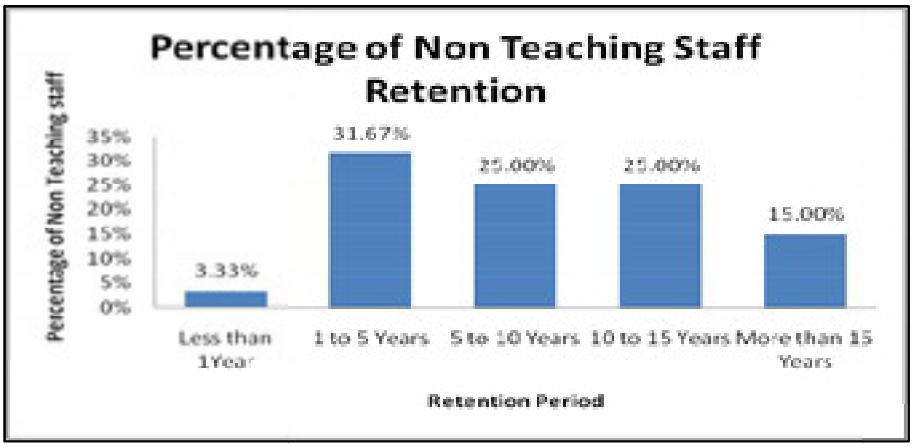
This college has a good retention record.

The following are some of the identified reasons for good retention of faculty in the college:

- Satisfactory and conducive work culture.
- Confirmation of service on completion of probation.
- Appraisal and regular increments to faculty based on academic performance, ability to discharge duties.
- Granting special academic leave for research work.
- Encouragement in the form of incentives for paper publications.
- Sponsoring for seminars/workshops etc.
- Group life insurance and group medical insurance schemes.
- Contributory EPF facility and provision of gratuity.

The following graphs indicate the retention record of teaching and non teaching staff in terms of experience in this college.





From the above graphs it is evident that a good retention of teaching and non teaching staff is maintained in this college.

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.

The college makes every effort to retain senior faculty and attract quality faculty to teach programmes in the institute.

- Senior faculty members are offered higher salary as per experience and qualification in order to retain them.
- Attractive salary is offered to recruit qualified professors in the departments. For example, the college faced scarcity of teaching staff in the Civil Engineering department. The college has been able to overcome this issue by providing salary hikes to the faculty of civil engineering.
- The college encourages faculty to do research in emerging areas.
- Sponsoring faculty to attend FDP/STTP/Workshops regularly to update their knowledge and skills.

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

a) Nomination to staff development programmes

Staff development programmes attended by staff outside the college as well as within the college.

Academic staff Development Programmes	Number of faculty nominated			
	2015-16	2014-15	2013-14	2012-13
Refresher Courses	61	48	42	43
HRD programmes	71	67	97	85
Orientation programmes	24	26	26	19
Staff training conducted by the university	8	2	4	1
Staff training conducted by other institutions	36	41	18	17
Summer/Winter schools, Workshops etc.	52	49	16	14

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

Teaching learning methods/approaches

Newly inducted faculty members are given orientation programme. Pedagogical techniques for the faculty members are imparted by experienced professors. Training programmes are arranged to faculty on teaching methodology by corporate companies. Faculty members are encouraged to prepare computer aided teaching/learning materials.

Handling new curriculum
The college has experienced and qualified staff to handle the new curriculum effectively. HOD and the senior faculty of the department conduct meetings to explain the new syllabus and devise methods to empower the teachers to handle the new syllabus. HOD interacts and discusses with senior faculty of Andhra University and takes required advice in handling the new curriculum. Faculty members are deputed to attend the FDP Programmes whenever the affiliating university conducts them on curriculum changes.

Content/knowledge management
Faculty members attend national and international seminars and workshops. They interact with the academicians and industry people and update their knowledge and skills. They also organize seminars and workshops.

Selection, development and use of enrichment materials
The HOD and the senior faculty of the department informally train the junior staff in the selection of books of recent editions and books written by renowned authors. They are also made aware of and helped to use NPTEL videos and materials available in the library.

Assessment
The self-appraisal report, student's feedback and the HOD report are the major yard sticks for the promotion of the faculty to higher cadres. These reports reveal the faculty performance and research needs.

Cross cutting issues
Seminars and workshops are conducted wherein experts from industries /academia are invited to share their knowledge and experience to sensitize and create awareness about gender issues, empowerment of women and upliftment of socially and economically weaker section of the society. Subjects like Professional Ethics and Human Values and Environmental Science are part of the curriculum.

Audio Visual Aids/multimedia
Faculty members are trained to use audio visual aids and multimedia in the classroom. All departments are provided with audio visual aids in the e-classrooms/seminar halls.

OERs (Open Educational Resources)
Facility of open educational resources is provided. Teachers are encouraged

to develop soft copies of teaching notes, lab manuals and share with the students through college website. Complete course materials, modules, textbooks, videos (NPTEL) etc. are provided for knowledge enhancement.

Teaching-learning material development, selection and use
Faculty members are given free access to internet which helps them to collect learning material. The college has a central library containing books and journals on various subjects. The college organizes seminars, conferences which help as a learning source for the faculty. The use of modern multi-media teaching aids like LCD projectors, internet enabled computer systems in class rooms empowers the faculty in delivering the lecture effectively.

c) Percentage of faculty

- Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
- Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

Description	Persons nominated from our college			
	2015-16	2014-15	2013-14	2012-13
Invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies	12	8	9	3
Participated in external Workshops/Seminars/Conferences organized by national/international professional bodies	28	27	26	10
Presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies	49	50	68	53

2.4.4 What policies/systems are in place to recharge teachers? (Ex: providing research grants, study leave, support for research and academic publications, teaching experience in other national institutions and specialized programmes, industrial engagement etc.)

- Faculty members are encouraged to apply for research projects funded by different organizations such as AICTE, DST etc.

- Institution grants study leave to faculty to complete their Ph.D. work. Any faculty member who wishes to do Ph.D. on part-time basis will be considered by arranging the time table in such a way that his/her normal teaching load and administrative responsibilities are lessened. Study leave with salary for a maximum period of 3 months is granted for devoting his/her time for doctoral work.
- It is absolutely essential for the faculty in these days to keep abreast of rapid changes in technology. Encouragement is given to the faculty to attend short term refresher courses, workshops, and seminars etc. being organized by various IITs., IISc., NITs., universities and other reputed institutions. Faculty members so deputed are treated as "on duty" for the duration of the course and the to-and-fro travel time. Further, the registration fee for the course, along with TA and DA is borne by the institute.
- Institution extends full support for professional development of the faculty. The institution encourages faculty to publish papers in national and international journals. An amount of Rs 5000/- and Rs 3000/- cash incentive is given to faculty for publishing papers in international and national journals of repute respectively. Faculty members presenting their research papers in Regional/National /International Conferences/Seminars/Workshops will be paid the registration fee and also to-and-fro railway fare, provided the international conferences are held within the country. Further, they are treated as "on duty" for the duration of the conferences and the to-and-fro travel time.
- Number of seminars, workshops and special lectures are conducted by the institution for knowledge upgradation of faculty and students.
- Faculty members are encouraged to deliver guest lectures or act as resource persons for FDP programmes/Workshops in other institutions or universities.

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 institution identifies the best teachers and recognizes their services by felicitating them every year on the eve of teachers day celebrations. However, there are no awards from external agencies for faculty.

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?

Evaluation of teachers performance is done in two ways in the college.

Feedback
The feedback from the students is collected twice in a semester-one shortly after the commencement of class work and the other after the completion of final internal exam. The first feedback helps to identify the strengths and weaknesses of the faculty so that they can overcome their short falls in the preceding classes. The second feedback is to know the level of attainment in overcoming their short falls.

Appraisal form
Appraisal is done by HOD for each faculty annually which is analyzed critically to take necessary corrective actions like suggestions to improve in specific areas such as publishing papers, attending seminars/workshops, use of innovative teaching procedures, pursuing research, improving results in the subjects they are dealing etc.

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?

An annual orientation programme for students during the admission process is conducted where they are briefed about the evaluation system in the institute and how it differs from the intermediate education. The Institute publishes the prospectus with syllabus of all the courses of the programme and its evaluation process including credits. This document is available for both students and faculty. The periodic instructions issued by the affiliating university are promptly communicated to the students. The faculty members read the instructions in the classrooms and a copy of the same is also displayed on the students notice-board. The above information is also posted on the college website. Further, any change in evaluation system is brought to the notice of faculty and they are advised to modify their course content and delivery accordingly.

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 college adheres to the norms of Andhra University which has a tradition of following good and time-proven methodologies for the evaluation of students. Student centric learning through assignments, projects, seminars and practical sessions is done as given below:

- For theory subjects, the university prescribes 30 marks for internal assessment and 70 marks for external examination.
- For laboratory practical evaluation, out of the total 100 marks allotted, continuous assessment for 50 marks is done internally and 50 marks are meant for external examination.

Evaluation reforms initiated by the institution on its own
Out of 30 marks given internally, 15 marks are allotted for internal assessment tests, 10 marks for assignments and 5 marks for class attendance.

- Two internal tests are conducted in each subject and a weightage of 70% of the best and 30% of the other is taken to obtain the marks scored out of total 15 marks allotted.
- For assignment marks, the institute has brought in a method of evaluation by splitting the assignments into two parts - first assignment of general nature and the second one is an exam specific assignment for a total weightage of 10 Marks.
- For practical examination, 50 marks are allotted for internal assessment which includes conduct, performance, observation and record of experiments (25 marks), attendance (5 marks), and internal test (20 marks). External exam is conducted for 50 marks.
- The institute evaluates a students regularity in attending classes and assigns marks on the basis of the following attendance percentage cutoffs.

Attendance percentage	Marks allotted
≥ 90%	5 Marks
85% to 90%	4 Marks
80% to 85%	3 Marks
75% to 80%	2 Marks

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?

Although Andhra University is known for its tradition of following good old and time-proven methodologies in evaluation, there have not been many evaluation reforms initiated by the university in the recent past.

- To ensure effective implementation of the evaluation reforms, the institution has set up separate examination sections at the department and college level which deal with the examination process.
- The college academic calendar with the schedule of class work, assignments, internal assessment tests and end semester examinations for

both theory and laboratory courses is prepared at the beginning of every academic year based on the university academic calendar.

- Schedule of Examinations and other information related to the conduct of examinations are posted on the college website.

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

Formative assessment is a tool used by the teacher to continuously monitor student progress in a non-threatening and supportive environment. It involves feedback and a chance for the student to reflect on his/her performance and improve on it. The proctorial system also plays an important role in identifying the weaknesses of the students and taking corrective measures. The formative assessment in the college includes conversation skills, assignments, projects, quizzes, viva-voce, student seminars, group discussions etc.
Summative assessment is carried out at the end of the course of learning. It sums up how the student has fared in the course. It is a test marked according to a scale or a set of grades specified by the university. The formative assessment helps the students in gaining more knowledge and thus makes them perform well in the campus recruitment process.
The institute follows semester system of teaching learning and continuous evaluation system is adopted to measure a student's achievement in a holistic manner.

- Each course, theory and practical, is evaluated for a maximum of 100 marks.
- For all theory subjects the continuous internal assessment carrying 30 marks is subdivided into internal test (15marks), assignment (10marks) and attendance (5marks), while the end semester examination carries 70 marks.
- For practical examination, 50 marks are allotted for internal assessment which includes conduct, performance, observation and record of experiments (25 marks), attendance (5 marks), and for internal test and viva-voce (20 marks). External examination is conducted for 50 marks.
- Project work is alloted 50 marks for both internal assessment and external assessment.

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

Complete transparency is maintained in the internal assessment. The criterion adopted is as directed by the university. All the students are familiarized about the transparency in internal assessment. Each theory subject is evaluated through internal and external exams. As per the regulations, internal and external exams are conducted for 30 and 70 marks respectively. Two internal assessment tests along with two assignments are conducted in every semester. The internal examination is so designed that they test not only the subject knowledge of the student, but also his/her analytical and problem solving skills. Each internal assessment through the tests carries 15 marks (each exam is conducted for 30 marks and later reduced to 15 marks and then the 70% of the best and 30% of the other is considered). The two assignments are mandatory and carry 5 marks each. Attendance carries 5 marks.

The soft skills lab introduced by the university in III Year assesses communication skills and it carries 100 marks through internal assessment. The industrial training programme which the students undergo after III year makes them associate with experienced people from the industry and it carries 100 marks through internal assessment. The project work is done by a group of 4 to 5 students in the IV year II semester and the students are encouraged to take live projects. It carries 50 marks each for internal and external assessment. The summer training and the project help the students enhance their interpersonal skills, leadership qualities and independent learning abilities. Transparency in the evaluation is maintained by returning the valued scripts to the students to enable them to check the marks and to draw the attention of the teacher to the discrepancies, if any, either in awarding marks or totaling of marks.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

The university has not specified any graduate attributes. However in view of implementing outcome based education (OBE), the institution has taken GAs from NBA and defined them as programme outcomes (POs)

1. **Engineering Knowledge**
   Apply knowledge of mathematics, science, engineering fundamentals and core engineering specialization to the defined and applied engineering procedures, processes, systems or methodologies.

2. **Problem Analysis**
   Identify, formulate, study literature, and analyze broadly-defined engineering problems in reaching substantiated conclusions using analytical tools appropriate to respective discipline or area of specialization.

3. **Design/ development of solutions**
   Design solutions for broadly- defined engineering/technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

4. **Investigation**
   Conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, databases and literature, design and conduct experiments to provide valid conclusions.

5. **Modern Tool Usage**
   Select and apply appropriate techniques, resources, and modern engineering tools, including prediction and modeling, to broadly-defined engineering activities, with an understanding of the limitations.

6. **The Engineer and Society**
   Demonstrate understanding of the societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to engineering technology practice.

7. **Environment and Sustainability**
   Understand the impact of engineering/technology solutions in societal and environmental context, and demonstrate knowledge of, and need for sustainable development.

8. **Ethics**
   Understand and commit to professional ethics and responsibilities and norms of engineering technology practice.

9. **Individual and Team work**
   Function effectively as an individual and as a member or leader in diverse technical teams.

10. **Communication**
    Communicate effectively on broadly-defined engineering activities with the engineering community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Life-long learning**
    Recognize the need for, and have the ability to engage in independent and life-long learning in specialized technologies.

12. **Project Management and Finance**

Demonstrate knowledge and understanding of engineering management principles and apply the same to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

The college ensures the attainment of these POs through course outcomes. Attributes will be normally moulded by the kind of working environment created by the institute. The institute creates an atmosphere of utmost discipline as far as the behavior of the students is concerned and at the same time gives sufficient flexibility, and encouragement to participate in co-curricular activities. Knowledge is imparted by teaching in the class room and various activities like guest lectures, seminars, contents beyond syllabus etc.

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

Redressal of grievances at college level regarding evaluation
The internal examination answer scripts and assignments after correction are made available to the students to bring out discrepancies if any, to the notice of concerned teacher. If discrepancies are noted, the faculty takes up necessary corrections and if the student is not satisfied with the corrections he/she brings it to the notice of the HOD.

Redressal of grievances at University level
Once the external examination results are out, the student, if not satisfied, is entitled to apply for revaluation in theory subjects by paying the prescribed revaluation fee to the University. The University re-evaluates the scripts and if there is no improvement, earlier marks are retained.

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?

For each subject, course outcomes are clearly defined by the course coordinator in line with programme outcomes. There is clear mapping between course outcomes and programme outcomes in accordance with PEOs, Vision and Mission of the department and the college**.**

Course outcomes are widely publicized in the college website and students are briefed in the beginning of the semester. As the effectiveness and efficiency of teaching – learning is measured in terms of attainment of course outcomes, subject teacher continuously emphasizes the importance in the class room throughout the semester.

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

Monitoring the progress and performance of students

The college has a Student Monitoring system in terms of attendance. A student monitoring register is available in every department which keeps the record of period to period attendance of the student.

Besides period to period monitoring, every department monitors the attendance of the students for every fortnight and reports the shortages to the principal.

The performance of students in internal tests (Assignments and mid exams) and external exams is closely monitored, and underscoring students are counseled and motivated.

Data sheets regarding the academics of students are available and are updated regularly by the corresponding department to monitor the progress of students.

Communicating the progress and performance of students

The college has a way of communicating their wards attendance daily through SMS to alert parents about those students who are irregular and are short of attendance to minimize the risk of detention.

The marks of the students are regularly communicated through post. All the students can view their marks and attendance on college website through student login.

The following tables give the result analysis data of UG and PG programmes for the past four year

Pass percentage of UG students for the past four years

S. No.	Programme	Pass Percentage			
		2012-13	2013-	2014-15	2015-16
1	ECE	66.93	79.25	95.00	80.97
2	CSE	57.60	66.66	69.61	64.25
3	EEE	53.12	69.90	65.42	79.03
4	ME	59.01	57.97	81.25	64.56
5	CIVIL	54.68	59.37	55.17	72.46
6	IT	45.00	60.34	73.17	66.37
7	EIE	50.94	61.90	45	73.46

Pass percentage of PG students for the past four years

S.No.	Programme	Pass Percentage			
		2012-13	2013-14	2014-15	2015-16
1	CS	53.33	95.00	76.47	77.77
2	CST	96.00	87.87	79.41	97.05
3	MD	100.00	100.00	61.53	84.61
4	PSA	100.00	100.00	83.33	94.44
5	VLSI	93.33	88.23	100.00	100.00
6	MCA	61.53	68.18	63.63	100.00
7	MBA	96.42	100.00	100.00	97.87

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 teaching-learning and assessment strategies are aimed at helping students to bring out their potential through the provision of a supportive, vibrant and challenging learning environment. Accordingly the curriculum, teaching, learning and assessment are focused primarily on achievement of intended learning outcomes. Additionally, for slow learners/mediocre students, the strategy is structured around strict monitoring of performance by adding extra stimulus/support/care so that the whole process is inclusive, catering to the needs of the students with varied capabilities. In principle, students are active partners with shared responsibilities for their own learning and attainment. This strategy recognizes the need to develop progressively self-directed and confident learners with the knowledge, skills, attitudes and values, which improve their employability and progressing opportunities.

First, the faculty members are made aware of learning outcomes of the course they are handling, and the outcomes are normally reflected in their course file. The student comes to know about the outcomes during the interaction with the faculty. The question paper for the internal test in a subject is designed keeping in mind the expected outcomes of the course. The achievement of the learning outcomes is measured through various indicators like internal assessments, assignments, quizzes, mini projects, pass percentage, placement record etc. The performance indicators are discussed during the HOD meetings and faculty meetings organized by the Principal. The brainstorming sessions during the departmental meeting are focused to discuss about the outcomes. The necessary remedial measures are taken to achieve the targeted outcomes.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

- A Training and Placement cell has been established in the college to add on student placements and is also responsible for providing the necessary training to get jobs. The training includes communication, presentation skills and other quantitative aptitude skills.
- The college has taken measures to enhance entrepreneurship among the students by encouraging them to join technical entrepreneurship programme, an online management certification course being offered by the reputed business school ISB Hyderabad under skill India initiative.
- Technical symposiums and competitions are regularly conducted so as to make students present their innovative ideas.
- Young Researchers Club, Robotics Club, Revelations Club etc., are student centric clubs through which they can interact with experts from various fields to know the latest innovations, thereby enriching research attitude and personality development in them.

GUEST LECTURE ON SKILL, INNOVATION & ENTREPRENEURSHIP

SEMINAR ON SKILL DEVELOPMENT

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

Institution collects and analyzes data on student performance, learning outcomes and uses it for planning and overcoming barriers of learning. Some of these are given below:

- Grades and marks of students in external and internal exams are considered and analyzed to represent the student performance. This data is used to identify difficult subjects and extra classes are organized in these

subjects for the new batches to improve their performance.

- Data pertaining to each assessment is recorded by the individual faculty member. A part of assignment or a full assignment may refer to a particular course outcome. Similarly internal examination questions may refer to different course outcomes.
- Subject teachers record the data and analyze the level of attainment / partial attainment of a particular course outcome of each student.
- Course exit survey is one of the tools to estimate the attainment of course outcomes.

At the end of the course, attainment of course outcomes is estimated by using the data collected with proper rubrics, and attainment of course outcomes are assessed.
Corrective actions are suggested by the course coordinator and approved by HODs for future use.

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

Various direct and indirect methods are adopted by the institute to monitor the achievement of learning outcomes by considering the performance of students in internal exams and assignments and feedback given in 2.6.5.
Course coordinator/HOD maps the course outcomes with programme outcomes and assesses the attainment of COs and POs.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes 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 university curriculum and course content are designed to gain basic knowledge of the subject. Assessment/evaluation of outcomes from the internal tests and assignments are indicators of student performance. Course outcomes are assessed and evaluation result is taken as indicator for attainment of COs. COs in turn are mapped with respective Programme Outcomes (POs).

Attainment of COs and POs are taken as performance indicators. Corrective measures on course delivery and leaning strategies are reviewed periodically by course coordinator and HODs.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.
The college ensures that all the policies regarding the teaching-learning process such as class work review committee and student feed-back for

teachers etc. are scrupulously followed. Transparency is ensured in the evaluation process, examination system and attendance of the students to ensure that the quality of highest order is maintained in the college.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

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?

The institution has applied for three research centres in departments of Mechanical Engineering, Electrical and Electronics Engineering and Computer Science and Engineering. The university visit is due in November, 2016

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.

Principal and HODs monitor the research activities. They meet once in every week to monitor and review the progress of the various academic, administrative, research and extension activities.

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

§ Autonomy to the principal investigator

The principal investigators who were sanctioned projects from various organizations like AICTE, DST, etc. are given full autonomy in executing the project as per the guidelines of the funding agencies and also provides additional resources, if required.

§ Timely availability or release of resources

The college provides all the facilities and ensures the timely availability of resources for the successful completion of the project.

§ Adequate infrastructure and human resources

The college provides adequate infrastructure and workspace, wired and wireless internet connection, sufficient computing facilities to the

investigators with necessary software and hardware, and also the central library facility with extended hours for access to national and international journals.

§ Time-off, reduced teaching load, special leave etc. to teachers

Faculty members working on major research projects are given the facility of reduced teaching work load in addition to sanctioning special leave for attending the workshops/seminars relevant to their research projects and associated works. Cash awards are being given to faculty for publishing papers in reputed journals.

§ Support in terms of technology and information needs

The institute/department encourages the students and faculty to utilize the laboratories, library, computer center and software for carrying out their research projects and also provides facility for obtaining the necessary information and technology from external sources. The college also make budget provisions to procure necessary equipment for experimental projects, subscribes to research journals to strengthen the library with latest journals, reference books and text books.

§ Facilitate timely auditing and submission of utilization certificate to the funding authorities

The college arranges auditing and assists the principal investigator to submit the utilization certificate after completion of the project to the respective funding authority.

§ Any other

The institute invites experts, professors and researchers from various universities and industries to share their experiences and expertise which enhances research culture in the campus.

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

The institution arranges guest lectures by eminent academicians and industrialists to create awareness and interest among the students and staff. The institution regularly conducts workshops/seminars and "TECHFEST" which help the students to learn the research-oriented concepts by interacting with students and faculty of other colleges. Faculty members are constantly

motivated to upgrade their qualification. One paper publication in peer reviewed journal or presentation in international conference is mandatory for M.E./M. Tech. students in order to submit the final project. Young Researchers Club and Robotics Club are functioning to ignite research temper among undergraduates.

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.

The following senior faculty members guide Ph.D. scholars of the institution and also scholars from other institutions.

S.No.	Name of the faculty	Department	Ph.D. Status	
			In Progress	Completed
1	Dr. G. Sambasiva Rao	ME	08	02
2	Dr. A. Yesu Babu	CSE	06	03
3	Dr. S. Krishna Rao	IT	02	-
4	Dr. A. Srinivasa Reddy	EEE	02	-
5	Dr. V.R.K.Murthy	FED	01	-

The following senior faculty members are carrying out research by undertaking sponsored projects.

S.No.	Name of the faculty	Department	Area of research
1	Dr. K.Venkateswara Rao	ME	Nanotechnology
2	Dr. R. Harinatha Babu	Civil	Drinking Water Quality

Details of faculty with Ph.D.

S.No.	Name of the faculty	Department	Area of Research Activity
1	Dr. G. Sambasiva Rao	ME	Thermo electric properties of Composite Materials
2	Dr.K. Venkateswara Rao	ME	Composite Materials
3	Dr. K. Rambabu	ME	Alternative Fuels
4	Dr. Lalit Narayan	ME	Welding
5	Dr. J. Sudhir Kumar	ME	Energy from municipal solid waste

6	Dr. M. Sriram Murthy	ME	Thermal Engineering
7	Dr. A. Srinivasa Reddy	EEE	Power Systems Optimization
8	Dr. Y. Butchi Raju	EEE	Power Systems
9	Dr. M. Aruna Bharathi	EEE	Nanotechnology for Energy Harvesting
10	Dr. M. Veera Kumari	EEE	Generation Expansion Planning
11	Dr. N. Bhupesh Kumar	EEE	P.V. Systems
12	Dr. V.R.K. Murthy	MATHS	Some Problem in Peristaltic Transport : Effect of Heat Transfer
13	Dr. K. Ramanjaneyulu	CHEMI STRY	Thermodynamic Properties of Binary Liquids
14	Dr. D. Saraswathi	MATHS	Fuzzy Network Location Problems
15	Dr. S. N. Ramachandra Rao	PHYSICS	Geographical Solar Phenomena
16	Dr. Y.Bharathi	ENGLISH	Novels of Graham Swift : A Study
17	Dr. A. Yesu Babu	CSE	Bioinformatics
18	Dr. M.Krishna	CSE	Image Processing
19	Dr. S. Krishna Rao	IT	Network Security
20	Dr. R. Harinadh Babu	CIVIL	Earthquake Resistant Design of Structures
21	Dr. K. Krishnaiah Choudary	MBA	HRM
22	Dr. T. Venkateswara Rao	ECE	Microwave Antennas
23	Dr. G. Ramu	FED	Chemistry

Details of faculty registered/submitted Ph.D.

S.No.	Name of the faculty	Department	Specialization of the Ph.D.
1	Mr. K. Anil Chowdary	CSE	Networks
2	Mr. P.Ratna Kumar	CSE	Software Engineering
3	Mr. J.S.V. Gopala Krishna	CSE	Data Mining

4	Mrs. G.Nirmala	CSE	Bioinformatics (Thesis submitted)
5	Mr. K. Sreenu	CSE	Data Mining
6	Mr. N. Deepak	CSE	Bioinformatics (Thesis submitted)
7	Mr. K.Varada Rajkumar	CSE	Bioinformatics
8	Mr. B.H. Benny	CSE	Computer Networks
9	Mr. M. Madhava Rao	CSE	Authentication Network Security
10	Mr. S. Jaya Prakash	CSE	Cloud Computing
11	Mrs. Y.L. Sandhya Rani	CSE	Data Mining
12	Mrs. K.N. Madhavi Latha	CSE	Bioinformatics
13	Ms. K.Swathi	CSE	Bioinformatics
14	Mr. S. Raghunath Sagar	EEE	Electrical Engineering
15	Mr. G. Rama Mohan Rao	EEE	Electrical Engineering
16	Ms. I. Hemalatha	ECE	Radar signal processing
17	Mr. K. Lakshminarayana	ECE	Digital Image Processing
18	Mr. R. Satish	ECE	Digital Image Processing
19	Mr. Ch. Ravi Kumar	ECE	Communications
20	Mr. Ch. Madhava Rao	ECE	Bioinformatics
21	Mrs. K.J.S. Lorraine	ECE	Communications
22	Mrs. P. Sasi Bala	ECE	Digital Image Processing
23	Mr. Sk. Rahimunnisha	ECE	Image and video processing
24	Mr. M. Ravi kumar	ECE	Digital Image processing
25	Mrs. K. Radha	ECE	VLSI Design
26	Mr. K. Satyanarayana	IT	Bioinformatics (Thesis submitted)
27	Mr. A.M.K. Kanna Babu	IT	Cloud Computing
28	Mr. Sk. Meeravali	IT	Computer Networks
29	Mr. N. Prasad	IT	Computer Networks
30	Mr. D. Satyanarayana	ME	Mechanical Engineering
31	Mr. K.Sunil Ratna Kumar	ME	Mechanical Engineering
32	Mr. T. Rama Krishna	ME	Production
33	Mr. E. Venkateswara Rao	ME	Manufacturing

34	Mr. Ch. Rama Krishna	ME	Manufacturing
35	Mr. K.V.Sridhar	MBA	HRM
36	Ms. Ch.Sowjanya	MBA	HRM
37	Mr. Sk.Sadik	FED	Functional Analysis
38	Mr. S.Sekhar Panda	FED	Mathematical Modelling
39	Mr. M.Veeranjaneyulu	FED	IoT Based Instrumentation
40	Mr. A.Srinivas	FED	English Literature
41	Mr. G.Siva	FED	Mathematical Modelling

Most of the faculty members are guiding M.E/ M.Tech projects leading to publication/ presentation

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.

Year	Programme Details
2015-16	1. One day seminar on “smart grids”. 2. Two day workshop on “AURDINO and Interfacing”. 3. HFSS faculty and student development session. 4. A seminar on “Employability and Technology Trends”. 5. A guest lecture “Exploring you”. 6. An overview of ”GSM UMTS and evaluation of LTE”. 7. A seminar on “Fundamentals of Speech Processing and its Applications using MATLAB Toolbox”. 8. A Seminar on “Latest Telecom Trends”. 9. A guest lecture on “Electronic Applications in Automotive Industries” 10. A seminar on “ARDUINO Programming and sensor Interfacing”. 11.Work Shop on “Planning Construction and estimation of highway bridges and pavements”. 12. An awareness programme on “Two-digit Development”. 13. An awareness programme on “Good Habits & Nutrition”. 14. A seminar on “Amaravathi”. 15. An event conducted “Swatch Andhra”. 16. An awareness programme on “Upadhi Kalpana”. 17. An awareness programme on “Jala Samrakshan”.

2015-16	18. An event conducted "Vanam Manam". 19. A Seminar on "Skill Development". 20. An awareness programme on "Pedarikampai Gelupu". 21. A seminar on "Internet including e-Pass, e-Electronic". 22. An awareness programme on "Physical Literacy". 23. J.R.D.Tata's Birthday celebrations, Guest Lecture by Sri N.Raja Mahendra, Managing Director, Surya Polymers, Eluru Dt: 29-07-2015. 24. Guest Lecture on "Online Business Strategies" by Mr.Venkatesh Padarthi, Managing Director, Mana Kirana Shop.com, Eluru Dt: 03-09-2015. 25. Guest Lecture by "Skills required for Management Graduates –How to acquire?" Sri S.Uma Maheswara Rao, H.R. Manager,HIL LTD, Kondapalli. Dt: 14-10-2015. 26. Workshop on "Python and Shell Scripting". 27. Workshop on "Advanced Web Application and Development with JAVA". 28. Workshop on "Android APP development". 29. A 3- day workshop on "Shell Programming under Python Language" on 18th to 20th February, 2016. 30. A workshop on "Fundamentals of Speech Processing and Its Application using MATLAB Toolbox" on 16th December, 2015. 31. A Faculty Development Programme by APSSDC on "Advanced Web Application Development with Java" from 14th October to 12th December, 2015. 32. APSSDC training on "Advanced Web Application Development with Java" on December, 2015 to March, 2016. 33. A Three day workshop on "R- programming" on 30th july to 1st August 2016
2014-15	1. 2nd International Conference on "Current Trends in Engineering and Management" (ICCTEM-2014). 2. National Conference on "Emerging Trends in Mechanical Engineering for Sustainable Development". 3.National Conference on "Recent Advances in Mechanical Engineering" (NCRAME-2014). 4. One day seminar on "D.G.", 5. One day workshop on "PLC programming and applications". 6. A 3-day workshop on "Job-oriented Industrial Automation".

2014-15	7. A seminar on "PLC Programming and SCADA". 8. A seminar on "Wireless sensor network design by FPGA". 9. A guest lecture on "PCB designing and testing". 10. A seminar on "PLC Programming and Applications". 11. Work shop on "RS & GIS". 12. Seminar on "Drainage Water Irrigation". 13. A event conducted "Yogathan". 14. Exhibiting Environmental Conservation Projects. 15. J.R.D.Tata's Birthday Celebrations on 29-07-2014, Guest Lecture by Sri T. Raghava Prasad, Managing Director, Krishna Engineering Works, Vijayawada Dt: 29-07-2014. 16. Guest Lecture on "Opportunities in Banking Sector". Sri D. Naga Raju Naidu, Deputy General Manager, Andhra Bank, Zonal Office, Eluru Dt: 03-11-2014. 17. Guest Lecture on "Career Guidance" by Sri K. Srinivas Senior Manager, LIC Branch-2, Eluru Dt: 27-12-2014. 18. Guest Lecture on "Consumer Behavior and Customer Relationship Management" by Prof. G. Sudarshan Rao, Department of Commerce Mgt studies, Andhra University, Visakhapatnam. Dt: 05-02-2015. 19. Guest Lecture on "Positive Thinking" by Brahma Kumari Sister Lavanya, Eluru, Dt: 24-02-2015. 20. A Two Day Workshop on "Cloud Security". 21. A Two Day Workshop on "Teaching Methodologies". 22. "Android Application Development" on 21st July, 2014. to 23rd July, 2014. 23. APSSDC training on "Android App Development" for final year students from January to April, 2015. 24. Workshop on "PHP and MYSQL" by Insignia Labs for Pre-final year students. 25. APSSDC industrial training on "Android App development, HTML, CSS and Java Script Languages".
	1. National Seminar on "Nanotechnology in Chemical and Allied Industries" (NTCAI-2014). 2. A National Level Techno Cultural Meet (UDGHOSH-14). 3. Seminar on "Unsteady Phenomenon in Turbo Machinery and Combustion Systems". 4. Guest lecture on "NBA Accreditation Process" by

2013-14	Dr. N. Vijay Sai 5. One day seminar on "Protection". 6. One day seminar on "Goal setting". 7. National Conference on Research Issues And Recent Trends in Electronics and Communication Engineering (NCRRECE). 8. A guest lecture on "Water Resource Engineering". 9. Seminar on "Vehicular Traffic Management by using Advanced Equipment". 10. Seminar on "Drainage Water Irrigation". 11. A seminar on "Teaching Methods". 12. J.R.D Tata's Birthday Celebrations -Guest Lecture by Sri K. Subramanyam, Managing Director, Kumar Pumps & Motors Ltd, Tenali 13. Guest Lecture - Sri Siva Kasaraneni, Management Consultant Price Water cooper strategy, U.S.A. 14. National Conference on Research issue and Recent Trends in Computer Science and Information Technology (NCRRCSIT-2013) 15. A Two Day Workshop on "Web applications & Designing". 16. National Conference on Research Issues and Recent Trends in Computer science and Information Technology- NCRRCSIT-27th& 28th December, 2013. 17. National workshop on "Data Mining and Business Intelligence Systems"-NWDMBIS 7th & 8th March, 2014. 18. "Career Building-Is it easy?" An Interactive session with Alumni students in abroad on 23rd November, 2013. 19. Guest Lecture on "Personality Development" by Dr. A. Chandulal on 4th July 2013. 20. Guest Lecture on "Opportunities in IT industry" by G. Gangadhar on 22nd March, 2014
2012-13	1. Workshop on "Design and Analysis of Experiments". 2. Workshop on "Modeling , Analysis And Control of Mechatronics Systems" (MACMS-2012). 3. 2-Week ISTE Workshop on "Computational Fluid Dynamics". 4. A Seminar on "Introduction to Open Courseware". 5. Workshop on "Earthquake Resistant Structures & Virtual Laboratory" 6. Seminar on "Irrigation Structures and types of irrigation". 7. A guest lecture on "Life Skills".

2012-13	8. A guest lecture on "Career Guidance". 9. A seminar on "Life Skills for Excellence in Engineering". 10. A seminar on "Opportunities for Mechanical Engineers". 11. A guest lecture on "Life Skills". 12. A seminar on "How to Excel in Academics". 13. An awareness programme on "Teaching Methods". 14. J.R.D Tata's Birthday Celebrations on Dt: 29-07-2012. 15. A Guest Lecture by GANBHUKTHA, Chairman, Merica Group U.S.A, New York "How to develop Global Mind Set". 16. A One Day workshop on "Data Warehousing". 17. One day seminar on "Opportunities and Career in Cloud Computing" 18. Workshop on "IBM Rational Rose". 19. Workshop on "Web Design". 20. Workshop on "Web Design" on 1st& 2nd August, 2012. 21. A 2-day workshop on "IBM Rational Rose, Rational Architect and Rational Robot" on 30th August and 1st September, 2012. 22. A guest lecture on "Creative and Innovative Skills" on 21st December, 2012. 23. A 2-day workshop on "Data Warehousing Concepts & Informatica" on 12th& 13th March, 2013.

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

Details of faculty completed Ph.D.

S.No.	Name of the faculty	Department	Area of Research Activity
1	Dr. G.Sambasiva Rao	ME	Thermo electric properties of Composite Materials
2	Dr.K.Venkateswara Rao	ME	Composite Materials
3	Dr. K. Rambabu	ME	Alternative Fuels
4	Dr. Lalit Narayan	ME	Welding
5	Dr. J. Sudhir Kumar	ME	Energy from municipal solid waste
6	Dr. M. Sriram Murthy	ME	Thermal Engineering

7	Dr. A. Srinivasa Reddy	EEE	Power Systems Optimization
8	Dr. Y. Butchi Raju	EEE	Power Systems
9	Dr. M. Aruna Bharathi	EEE	Nano Technology for Energy Harvesting
10	Dr. M. Veera Kumari	EEE	Generation Expansion Planning
11	Dr. N. Bhupesh Kumar	EEE	P.V.Systems
12	Dr. V.R.K. Murthy	MATHS	Some Problem in Peristaltic Transport : Effect of Heat Transfer
13	Dr. K. Ramanjaneyulu	CHEMISTRY	Thermodynamic Properties of Binary Liquids
14	Dr. D. Saraswathi	MATHS	Fuzzy NetworkLocationProblems
15	Dr. S. N. Ramachandra Rao	PHYSICS	Geographical Solar Phenomena
16	Dr. Y.Bharathi	ENGLISH	Novels of Graham Swift : A Study
17	Dr. A. Yesu Babu	CSE	Bioinformatics
18	Dr. M.Krishna	CSE	Image Processing
19	Dr. S. Krishna Rao	IT	Network Security
20	Dr. R. Harinadh Babu	CIVIL	Earthquake Resistant Design of Structures
21	Dr. K.Krishnaiah Choudary	MBA	HRM
22	Dr. T.Venkateswara Rao	ECE	Microwave Antennas
23	Dr. G. Ramu	FED	Chemistry

Details of faculty registered/submitted Ph.D.

S.No.	Name of the faculty	Department	Specialization of the Ph.D.
1	Mr. K. Anil Chowdary	CSE	Networks
2	Mr. P.Ratna Kumar	CSE	Software Engineering
3	Mr. J.S.V. Gopala Krishna	CSE	Data Mining
4	Mrs. G.Nirmala	CSE	Bioinformatics (Thesis submitted)

5	Mr. K. Sreenu	CSE	Data Mining
6	Mr. N. Deepak	CSE	Bioinformatics (Thesis submitted)
7	Mr. K.Varada Rajkumar	CSE	Bioinformatics
8	Mr. B.H. Benny	CSE	Computer Networks
9	Mr. M. Madhava Rao	CSE	Authentication Network Security
10	Mr. S. Jaya Prakash	CSE	Cloud Computing
11	Mrs. Y.L. Sandhya Rani	CSE	Data Mining
12	Mrs. K.N. Madhavi Latha	CSE	Bioinformatics
13	Ms. K.Swathi	CSE	Bioinformatics
14	Mr. S. Raghunath Sagar	EEE	Electrical Engineering
15	Mr. G. Rama Mohan Rao	EEE	Electrical Engineering
16	Ms. I. Hemalatha	ECE	Radar signal processing
17	Mr. K. Lakshminarayana	ECE	Digital Image Processing
18	Mr. R. Satish	ECE	Digital Image Processing
19	Mr. Ch. Ravi Kumar	ECE	Communications
20	Mr. Ch. Madhava Rao	ECE	Bioinformatics
21	Mrs. K.J.S. Lorraine	ECE	Communications
22	Mrs. P. Sasi Bala	ECE	Digital Image Processing
23	Mr. Sk. Rahimunnisha	ECE	Image and video processing
24	Mr. M. Ravi kumar	ECE	Digital Image processing
25	Mrs. K. Radha	ECE	VLSI Design
26	Mr. K. Satyanarayana	IT	Bioinformatics (Thesis submitted)
27	Mr. A.M.K. Kanna Babu	IT	Cloud Computing
28	Mr. Sk. Meeravali	IT	Computer Networks
29	Mr. N. Prasad	IT	Computer Networks
30	Mr. D. Satyanarayana	ME	Mechanical Engineering
31	Mr. K.Sunil Ratna Kumar	ME	Mechanical Engineering
32	Mr. T. Rama Krishna	ME	Production
33	Mr. E. Venkateswara Rao	ME	Manufacturing
34	Mr. Ch. Rama Krishna	ME	Manufacturing
35	Mr. K.V.Sridhar	MBA	HRM

36	Ms. Ch.Sowjanya	MBA	HRM
37	Mr. Sk.Sadik	FED	Functional Analysis
38	Mr. S.Sekhar Panda	FED	Mathematical Modelling
39	Mr. M.Veeranjaneyulu	FED	IoT Based Instrumentation
40	Mr. A.Srinivas	FED	English Literature
41	Mr. G.Siva	FED	Mathematical Modelling

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

- Institute encourages both faculty and students to invite expert speakers from academia and industry to conduct various technical programmes to increase awareness and have good exposure to latest trends in technology.
- Department professional associations are always active in organizing and conducting guest lectures, workshops and TECHFEST.
- Eminent personalities, researchers, scientists visit the campus from various universities, industries - both national and international.

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?

Being a private self financing institution, there is no facility for sabbatical leave. However, a few faculty members are given long leave to complete their Ph.D. degree. Faculty members who are carrying out research leading to Ph.D. qualification are given special leaves to meet their supervisors, reviews and for thesis writing and submission.

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)

Since the research activity in the institution is at primitive stage, no such activities are initiated. However, as research activities increase, the institution takes up all measures given above. However, faculty carrying out research and students undergoing final projects utilize the services rendered by various

colleges, universities and research establishments.

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.

The year wise allocation of budget for various heads related to research along with details of percentage of total budget allocated, amount allocated and actual utilization during the last four years are as follows.

Year	Percentage of Budget Allocated	Budget Allocated Amount in Rs.	Utilization Amount in Rs.
2015-16	2.42	30,00,000	6,61,608
2014-15	0.87	10,75,000	4,78,469
2013-14	1.82	16,75,000	9,70,087
2012-13	1.47	16,75,000	8,82,297

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?

Most of the research activities carried out by faculty are of analytical type and hence they don't require seed money. But the institution provides the required infrastructure and facilities, software, leave facility, sponsorship to related seminars and workshops and support for the publications.

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

The following facilities are extended to students carrying out final year projects leading to publication in journals and presentation in conferences:

- Required software made available.
- Partial funding.
- Travelling expenses for collection of data.
- Extended lab hours.
- Required hardware is made available.

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 in organizing interdisciplinary research.

Interdisciplinary research in the college is at its primitive stage. For example, faculty members of Electrical, Mechanical and Computer Science departments are guiding scholars in nanotechnology, civil engineering, and electronics respectively.

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

- Students and staff utilize all the computing facilities and laboratories to maximum extent for research work.
- Nanotechnology equipment in Mechanical department is open to faculty and students of other departments.
- Tensometer in Mechanical department is open to civil students and faculty.
- Computerized UTM in Mechanical department is being used for civil projects and consultancy etc.

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.

S. No.	Title of Proposal	P.I/ CI	Funding Agency	Amount in Rs.	Status
1	Fabrication & Experimental Investigations on Al-Si-Tib2 Nano Composites	Dr. K. VenkateswaraRao	AICTE	20,40,000	Ongoing
2	Assessment of the quality of Drinking water sources in the upland area at West Godavari District, Andhra Pradesh, India.	Dr. R. Harinadha Babu	DST	22 ,00,000	Ongoing

3	Siemens TSDI	Dr. G. Sambasiva Rao	APSSDC	3,00,00,000	Ongoing
4	Upgradation of Strength of Materials Lab	Dr. K. Venkateswara Rao	AICTE	6,00,000	Completed
5	Modernization of AEC/EDC LAB	Mr. M. Ravi Kumar	AICTE	7,50,000	Completed
6	Modernization of BMI LAB	Mr. M. Ravi Kumar	AICTE	5,00000	Completed
7	Modernization of Communications Lab	Mr. M. Srinivasa Rao	AICTE	11,20,000	Completed
8	Modernization of P.I. Lab.	Mr. C S Dattatreya	AICTE	10,00,000	Completed
9	Modernization of Electrical Machines Lab.	Mr. Shyam Mohan S Palli	AICTE	9,00,000	Completed
10	Modernization of Chemistry Lab.	Dr. A. Ramachandra Rao	AICTE	5,72,000	Completed
Total				3,96,82,000	

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

S. No.	Title of Proposal	P.I/ CI	Funding Agency	Amount in Rs.	Status
1	Fabrication & Experimental Investigations on Al-Si-Tib2 Nano Composites	Dr. K. VenkateswaraRao	AICTE	20,40,000	Ongoing
2	Assessment of the quality of Drinking water sources in the upland area at West Godavari District, Andhra Pradesh, India.	Dr. R. Harinadha Babu	DST	22 ,00,000	Ongoing

3	Siemens TSDI	Dr. G. Sambasiva Rao	APSSDC	3,00,00,000	Ongoing
4	Upgradation of Strength of Materials Lab	Dr. K. Venkateswara Rao	AICTE	6,00,000	Completed
5	Modernization of AEC/EDC LAB	Mr. M. Ravi Kumar	AICTE	7,50,000	Completed
6	Modernization of BMI LAB	Mr. M. Ravi Kumar	AICTE	5,00000	Completed
7	Modernization of Communications Lab	Mr. M. Srinivasa Rao	AICTE	11,20,000	Completed
8	Modernization of P.I. Lab.	Mr. C S Dattatreya	AICTE	10,00,000	Completed
9	Modernization of Electrical Machines Lab.	Mr. Shyam Mohan S Palli	AICTE	9,00,000	Completed
10	Modernization of Chemistry Lab.	Dr. A. Ramachandra Rao	AICTE	5,72,000	Completed
Total				3,96,82,000	

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

- Well equipped laboratories.
- Computing facilities.
- Access to research publications.
- Providing national and international journals in central library.
- Providing broadband internet facility of 120 Mbps with leased lines and Wi-Fi enabled 24 × 7.
- Dedicated research centers.

3.3.2 What 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?

The institution has realized the importance of research in the context of fast growing requirements of the society. The current strategy of continuing as

teaching institution is obsolete and redundant. Students must be given more than curriculum in their study at the institution for sustainability. In view of this it has changed its policies and strategies towards mobilizing the faculty and students on research activities and creates the research atmosphere in the campus.

- Upgraded bandwidth.
- Providing the required software to carry out the research.
- Creating the required facilities- Nanotechnology laboratory, Computerized Tensometer, Computerized CTM, Ansys Work bench with unlimited nodes, HFFM, Sophisticated GPS device etc.
- Encouraging faculty with more than two years of experience to register their Ph.D.
- Reducing the teaching load to faculty carrying out research.
- Encouraging senior faculty members to apply for funded projects.
- Arranging faculty enrichment programmes.
- Sponsoring the faculty to seminars and workshops of their research area.
- Publication incentives.

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.

The institution received a grant of Rs 20.4 lakhs to setup Nano-technology laboratory and Rs 22 lakhs to setup an environmental laboratory to assess the quality of water in different seasons in the up lands of W.G Dist in the past three years

S. No.	Equipment Procured	Cost in Rs
1	Micro Hardness Tester	5,04,700
2	Electronic Tensometer	4,35,000
3	Planetary Ball Mill	7,17,750
4	Accessories of Electronic Tensometer	59,825
5	Aluminium Stir casting Research Assistant with its Accessories	4,27,000
Total Amount		**21,44,275**

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

laboratories?

Students are allowed by the parent university to make use of their facilities like central library and laboratories to carry out research. Students are sent to other institutions where testing facilities are available after obtaining permission from concerned authorities.

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

- Researchers are provided access to e-journals and digital library
- 70 systems with high speed internet facility are made available beyond working hours and on public holidays and Sundays
- Back dated journals are available for reference.

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

There are no such facilities available in campus.

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**

Research project carried out in Civil department funded by DST helps the farmers of West Godavari District in selection of crops as per the specification and advises them on the quality of water available in their village in different seasons. This facilitates maximum yield and contributes to economic growth of the region.

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?

The institution has not ventured in publication of research journal

3.4.3 Give details of publications by the faculty and students:
Number of papers published in peer reviews journals:

Papers published by faculty

Year	No. of Publications
2015-16	83
2014-15	128
2013-14	156
2012-13	106

Number of publications listed in International Database (for E.g.: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Citation Index		h-Index	
Min.	Max.	Min.	Max.
1	67	2	42

* **Monographs** : Nil
* **Chapter in Books** : 01
* **Books Edited** : 22
* **Books with ISBN/ISSN numbers with details of publishers** : 09

*** SNIP**

SNIP	
Min.	Max.
0.63	3.56

*** SJR**

SJR

Min.	Max.
0.27	2.22

*** Impact Factor**

Impact Factor	
Min.	**Max.**
0.23	6.39

3.4.4 Provide details (if any) of

*** Research awards receive by the faculty**

Dr. K. Krishnaiah Choudary received Gold medal for Ph.D. from Andhra University

*** Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

S. No.	Name of the Faculty	Awards / Recognitions
1	Dr. G. Sambasiva Rao	Reviewer for Journal of Manufacturing
2	Dr. G. Sambasiva Rao	BoS Member of Krishna University
3	Dr. G. Sambasiva Rao	Member of EAMCET committee of Govt. of A.P.
4	Dr. A.Yesu Babu	Editorial Board member of International Journal of Computer Science And Technology (IJCST)
5	Dr. A.Yesu Babu	Peer-Reviewer for International Journal of Bioinformatics Research And Applications (IJBRA)
6	Dr. A.Yesu Babu	Peer-Reviewer for Journal of Computational Biology and Bioinformatics Research (JCBBR)
7	Dr. A.Yesu Babu	International Journal for Biometrics and Bioinformatics (IJBB)
8	Dr. A.Yesu Babu	Member of board of studies in CSE of Andhra University
9	Dr. S. Krishna Rao	Member, BOS, Dept. of CSSE, College of Engineering, Andhra University
10	Dr. S. Krishna Rao	Member, BOS, SRKR Engineering

		college (Autonomous)
11	Dr. S. Krishna Rao	Member, BOS, College of Engineering, Adikavi Nannayya University
12	Dr. K.Rambabu	Reviewer for Elsevier Publications
13	Dr. K.Lalit Narayan	Reviewer in JASR, Senior editor in JTASR
14	Dr. J.Sudhir Kumar	Secretary in Regional IE students chapter
15	Dr.K. Ramanjaneyulu	Editorial Board Of International Journal of Science Engineering and Advance Technology- (IJSEAT)
16	Mr. Sudam Sekhar Panda	Editorial Board of International Journal of Research in Computer and Communication Technology (IJRCCT)

S.No.	Name	Qualification	Membership in Professional bodies
1	Dr. G. Sambasiva Rao	M.E, Ph. D	FIE, MISTE
2	Dr. T. Venkateswara Rao	M.Tech, M.S, Ph.D.	MIEI,MIETE, LEMIC
3	Mr. K.V.R. Chowdary	M.Tech., (Ph..D.)	MIE
4	Ms. I.Hemalatha	M.Tech., (Ph.D.)	MISTE,MIE
5	Mr. K.Lakshmi Narayana	M.Tech., (Ph.D.)	MISTE,MIE
6	Mr. V.Veerraju	M.Tech.	MIE,MIAENG
7	Mr. R.Satish	M.E (Ph.D.)	MISTE,MIE
8	Mr. Ch.Ravi Kumar	M.Tech., (Ph.D.)	MIE,MIETE
9	Mr. H.Sudhakar	M.Tech.	MIE,MIAENG
10	Mr. P.Hareesh	M.Tech.	AMIE,MIAENG
11	Mr. Ch.Jaya Prakash	M.Tech.	MISTE
12	Mr. K.Miranji	M.Tech, MBA	AMIE,MIAENG
13	Mrs. N.Lavanya	M.Tech.	AMIE
14	Ms. V.Vamsi Sudheera	M.Tech.	AMIE
15	Mrs. P.Sasi Bala	M.Tech.,(Ph.D.)	AMIE,MIAENG
16	Mr. A.Ram Kumar	M.Tech.	AMIE
17	Mr. R.Trinadh	M.Tech.	AMIE
18	Mr. M.N.Venkatesh Babu.S	M.Tech.	AMIE
19	Mr. K.Chandra Sekhar	M.Tech.	AMIE,MIAENG

20	Mrs. Sk.Rahimmunisha	M.Tech (Ph.D.)	MISTE,MIAENG
21	Ms. P.Sowmitri	M.Tech.	AMIE,MIAENG
22	Mr. M.Vamsi Krishna Allu	M.Tech.	MISTE,MIE
23	Mrs. K.Lavanya	M.Tech.	MISTE,MIE
24	Mrs. M.Greeshma	M.Tech.	MISTE,MIE
25	Dr. S. Krishna Rao	M.Tech. , Ph.D.	IAENG,IAEST, ICST,UACEE ISTE, MIE
26	Mr. K. Satyanarayana	M.Tech. (Ph.D.)	IAENG,UACEE, IAEST, ICST
27	Mr. N.Prasad	M.Tech. (Ph.D.)	IAENG,UACEE, IAEST, MIE, ICST
28	Mrs. T.S Nagamani	M.Tech.	IAENG,UACEE, IAEST, AMIE, ICST
29	Mr. A.M.K.Kanna Babu	M.Tech. (Ph.D.)	IAENG,UACEE, IAEST,MIE, ICST
30	Mrs. G.Krishna Veni	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
31	Mr. Sk. Meeravali	M.Tech. (Ph.D.)	IAENG,UACEE, IAEST, ICST
32	Mr. K.Purna Prakash	M.Tech.	IAENG,UACEE, IAEST,AMIE ISTE, ICST
33	Mr. K.Lakshmaji	M.Tech.	IAENG,UACEE, IAEST, ICST
34	Mrs. N.V.S.K.Vijaya Lakshmi .K	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
35	Ms. J. Malathi	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
36	Mr. D. Srinivasa Rao	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
37	Mr. P Ramaiah Chowdary	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
38	Mr. G Vihari	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
39	Mrs. B. Lalitha Bhavani	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
40	Mr. G.Pavan	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST
41	Mrs. N.Sameera	M.Tech.	IAENG,UACEE, IAEST,AMIE, ICST

42	Mr. E.Bala Krishna Manash	M.Tech.	IAENG,UACEE, IAEST, ICST
43	Mr. V. Gopinath	M.Tech.	ISTE, IAENG,UACEE, IAEST, ICST, AMIE
44	Mr. Challa Yallamanda	M.Tech.	IAENG,UACEE, IAEST, ICST, AMIE
45	Mr. P. RajendraKumar	M.Tech.	IAENG,UACEE, IAEST, ICST
46	Dr. A. Srinivasa Reddy	M.Tech. , Ph.D.	ISTE, IEI, IEEE
47	Dr. Y. Butchi Raju	M.Tech. , Ph.D.	ISTE, IEI, IEEE
48	Mr. S.R. Sagar	M.Tech.	ISTE, IEI
49	Mr. G. Ram Mohan Rao	M.Tech.	ISTE, IEI
50	Dr. M. Aruna Bharathi	M.Tech. , Ph.D.	ISTE, IEI
51	Dr. M. Veera Kumari	M.Tech. , Ph.D.	ISTE, IEI
52	Dr. N. Bhupesh Kumar	M.Tech. , Ph.D.	ISTE, IEI
53	Mr. A. S. Prakasha Rao	M.Tech.	ISTE, IEI
54	Mr. T. Kranthi Kiran	M.Tech.	ISTE, IEI
55	Mr. N. Rama Narayana	M.Tech.	IEI
56	Mr. J. Ayyappa	M.Tech.	IEI
57	Mrs. P. Naga Sowjanya	M.Tech.	IEI
58	Mr. M. Sunil Kumar	M.Tech.	IEI
59	Mr. U. Ranjith Kumar	M.Tech.	IEI
60	Mr.V.S.R.Pavan Kumar. N	M.Tech.	IEI
61	Ms. T. Deepti Prasanna	M.Tech.	IEI
62	Mr. A. Durga Prasad	M.Tech.	IEI
63	Mr. A.N.P. Girish Kumar	M.Tech.	IEI
64	Mr. R. Madhusudan	M.Tech.	IEI
65	Mr. K. Venkatesh	M.Tech.	IEI
66	Mr. S.N.V. Bramareswara Rao	M.Tech.	ISTE, IEI
67	Mr. B. Sambasiva Rao	M.Tech.	IEI
68	Ms. Ch. Prasanna Lakshmi	M.Tech.	IEI
69	Dr. V R K. Murty	M.Sc., Ph.D.	ISTE, APSMS
70	Dr. K. Ramanjaneyulu	M.Sc., Ph.D.	ISTE
71	Mr. S. Sekhar Panda	M.Sc.,, M.Phil. (Ph.D.)	ISTE, AMIE, AIENG
72	Dr. A Yesubabu	M.Tech., Ph.D.	CSI,BOS
73	Mr. P. Ratna Kumar	M.Tech., (Ph.D.)	MIE

74	Mr. J.S.V.Gopala Krishna	M.Tech., (Ph.D.)	MIE
75	Dr. M Krishna	M.Tech., (Ph.D.)	MIE
76	Mrs. G. Nirmala	M.Tech., (Ph.D.)	MIE
77	Mr. K. Srinivas	M.Tech., (Ph.D.)	MIE
78	Mr. K.Varada Rajkumar	M.Tech., (Ph.D.)	MIE
79	Mr. S. K. Chaitanya	M.Tech.	MIE
80	Mr. Samparthi V S Kumar	M.Tech.	MIE
81	Mr. M. Madhava Rao	M.Tech., (Ph.D.)	MIE
82	Mr. V. Shariff	M.Tech.	MIE
83	Mr. V. Pranav	M.Tech.	AMIE
84	Mr. S.Jaya Prakash	M.Tech., (Ph.D.)	AMIE
85	Mr. Ch.Srinivas	M.Tech.	AMIE
86	Dr. K. Rambabu	M.Tech., Ph. D.	ISTE
87	Dr. K.Lalith Narayan	M.Tech., Ph. D.	ISTE, IE
88	Dr. M. Sri Rama Murthy	M.Tech., Ph. D	ISTE, IE
89	Mr. M. Ramji	M.Tech.	ISTE
90	Mr. P.S.B.Chowdary	M.Tech.	ISTE
91	Mr. D.Satyanarayana	M.Tech., (Ph.D.)	ISTE, IE
92	Mr. K.Sunil Ratna Kumar	M.Tech., (Ph.D.)	IE
93	Mr. T.Rama Krishna	M.Tech., (Ph.D.)	IE
94	Mr. E.Venkateswara Rao	M.Tech., (Ph.D.)	IE
95	Mr. K.V.P.P.Chandu	M.Tech.	IE
96	Mr. Ch. Rama Krishna	M.Tech., (Ph.D.)	IE
97	Mr. B.V. Subrahmanyam	M.Tech.	IE
98	Mr. S.V.Gopala Krishna	M.Tech.	IE
99	Mrs. Ch.Lakshmi Poornima	M.Tech.	IE
100	Mr. L.N.V. Narasimha Rao	M.Tech.	IE
101	Mr. Ch. Chandra Rao	M.Tech.	IE
102	Mr. A. Srinivasa Rao	M.Tech.	IE
103	Mr. K. Yasoda Sreeram	M.Tech.	IE
104	Mr. E.Srinivas	M.Tech.	IE
105	Mr. K. Anjaneyulu	M.Tech.	IE
106	Mrs. M.N.V. Alekhya	M.Tech.	IE

107	Mr. A.S. Ganapathi	M.Tech.	IE
108	Ms. Ch. Rajeswari	M.Tech.	IE
109	Ms. K.V. Kalyani	M.Tech.	IE
110	Mr. V. Naveen Kumar	M.Tech.	IE
111	Mrs. K.N.Madhavilatha	M.Tech., (Ph.D.)	AMIE

3.5 Consultancy

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

- Centralized Training and Placement Cell of this institution acts as a liaison between the companies and college.
- Each department signed MoU with the industries of their relevance in terms of industry visits, expert lectures by professionals and the possibility of exploring mutually beneficial iteration.
- Signed an MoU with NASSCOM for student training.
- Working with VEM technologies for development of training manual.
- Institution has good alumni base, and many of our students are currently working with various reputed companies. The institution is in the process of establishing relations through Alumni association.
- The institution has tied up with SIEMENS and planning to open skill development centre with the cooperation of Andhra Pradesh state government.

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

- Exploring the possible areas of expertise with the help of faculty members.
- Liaise with industry to create awareness on the expertise of the institution.
- Industry visits by faculty to explore the possibility of consultancy.
- Optimum utilization of available resources.
- Inviting key people from industries to the campus to have a glimpse of the infrastructure and faculty expertise.
- Providing information on the faculty expertise, testing equipment and facilities available in college website.

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

The staff members are encouraged to utilize their expertise and available facilities for consultancy services.

- By reducing the workload of faculty involved in major consultancy works.
- By sponsoring the faculty to attend important workshops and seminars arranged by the leading technology consultants in relevant fields.
- By offering monetary benefits to faculty involved in consultancy as per the college policy.
- Faculty members are permitted to utilize the infrastructure and lab facilities for experimentation and use software for solving and analyzing their consultancy projects.

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

- Structural design
- Water analysis
- Soil testing
- Material Testing
- Software development

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?

50% of the revenue generated is distributed among the faculty and staff involved in consultancy and testing.

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 institute has a NSS unit which inculcates the spirit of service in the students mind by conducting various programmes like blood donation camps etc.
- The students of various departments form social service groups and take up service activities independently with the guidance of the faculty.

- NSS unit conducted Swatch Bharat, free medical camps in the nearby villages.
- Both Staff and students actively participate in Blood Donation Camps and donate blood once in every 4 months.
- The institution has secured Governor Gold Medal for its service to the society during academic year 2014-15
- Students observe Independence Day and Gandhi Jayanthi by donating money, cloths, food etc., to orphanages.
- Students help the government in Aadhaar seeding, Pulse survey, etc.
- Students volunteer in general elections, Godavari pushkarams, etc.

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

Normally any social activity taken up by the students is in consultation with the HODs and with the permission of the Principal. The departments keep a track of such student activities. They have actively participated in Samykyandra movement without disturbing their studies.

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

The institution takes feedback from its stakeholders in oral or written form whichever is possible

- Student exit survey helps in identifying the requirement of infrastructure and facilities.
- Feedback from recruiters during campus placement is utilized to hone skills of the students.
- Feedback from parents during the parents meet helps in improving amenities, infrastructure and general and academic operations.
- Feedback from Alumni helps in additional training requirements, industry expectations and the extra and co-curricular augmentation.

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.

- Students and faculty gave a supporting hand to the Hud-Hud cyclone victims by providing 5000 packets of food.

- Conducted an exhibition to school children by exhibiting models and environmental preservation.
- Awareness on use of plastic, and handling of plastic waste within the campus.
- Creating awareness among the students and faculty on electricity utilization.
- Conducted free medical camps to the faculty and non-teaching staff.
- Awareness on hygiene among students and faculty by organizing Swatch Bharat within the campus.
- Creating awareness on importance of plantation.

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 institute provides adequate motivation for participation in the projects and programmes of these agencies with admissible incentives.
- Immediately after admission into the engineering programmes, students are left to their choice in joining various social service units functioning in the institute. An awareness programme is conducted for the freshers regarding the functioning, activities and benefits of becoming members in each of the units. Students are encouraged to join in at least one such unit.

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?

A two week survey is conducted by 54 students of first and second year MBA in Eluru town, and they collected data of over 1000 families. They are analyzing the data on various aspects and the results will be published shortly.

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.

Extension activities implant the following attributes among the students:

- Sense of responsibility.
- Commitment towards society.

- Leadership qualities.
- Environmental Awareness.
- Humanism and Compassion.
- Patriotism.
- Training in fire fighting and providing flood relief.

The extension activities planned and organized satisfy the partial attainment of Programme outcomes (PO) defined by individual departments in accordance with graduate attributes (GA) given by the National Board of Accreditation (NBA). Expected attainment of GAs is as given below:

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 professional engineering practice.

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

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

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 college is aware of its societal responsibilities and has initiated steps to involve the local community in community development programmes. Active student participation draws their attention to the needs of the society, its maladies and also helps in building leadership and teamwork skills among them. Some of the activities are

- To provide opportunities for skill development in the community, the

college has been chosen by AP State government to act as the Skill Development Center for this region under Siemens-APSSDC scheme.

- The 'Swach Bharat' call given by our honorable Prime Minister Sri Narendra Modi has been responded enthusiastically and zealously by the college students in the campus and the same message is carried to nearby villages like Vatluru, Satyavolu etc. campaigned by the students in the community.
- Arrange blood donation camps frequently under the aegis of college NSS unit by involving students and local villagers in the Pedapadu mandal.
- Environmental awareness and resource management such as prohibition of plastic use, tree plantation, etc., are focused upon and programmes are organized by the Civil Engineering department of the college with extensive local participation.

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.

At present college does not have any association with other institutions with respect to extension programmes.

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.

- Received Governor Gold medal for donation of highest number of units of blood in one calendar year, 2015.
- Appreciation from District Collector for the student involvement in Aadhaar seeding in record time. This District stood one among top 10 districts in the country who completed Aadhaar seeding in record time.
- Appreciation from district authorities for the student involvement in pulse survey and its completion in record time.

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.

The institution collaborates and interacts with research laboratories, reputed institutions and industry for research activities and to provide training and guidance for B.Tech. and M.Tech. students in their project work.

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.

- Collaboration with NASSCOM helps the students and faculty by exposing them to upcoming technologies of Associate Analytics and Cyber Security.
- Collaboration with APSSDC helps the students to get online training on various new technologies which are not dealt in curriculum.
- APSSDC's lengthy training programmes help the faculty members exposed to industry environment and industry practices which otherwise are not familiar to them.
- Collaboration with Oracle Academy helps the students and faculty members to gain in depth knowledge on Database management.
- Collaboration with local industries helps the students to expose themselves to practical environment and to get a chance to correlate theory and practice.

S. No.	Industry/Company
1	NASSCOM
2	APSSDC
3	Efftronics Systems Private Limited
4	Oracle Academy
5	Microcare Computers Private Limited
6	Global Infovision Private Limited
7	Tej Technologies
8	XL Softtech Systems Limited
9	Nagarjuna Fertilizers and Chemicals limited
10	Indian School of Business, Hyderabad

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.

- Laboratories are upgraded with advanced equipment through AICTE sponsored MODROBS funds and also with the amounts allotted through institute budgets.
- SIEMENS skill development is providing the following laboratories and facilities.
  - Advanced manufacturing - CNC.
  - Advanced manufacturing – Welding.
  - Automobile – Two – Wheeler.
  - Automobile - Four- Wheeler.
  - CBT on advanced modeling and simulation software.
  - Home Electronics.
  - ICT.
- Oracle Academy has provided us with full version of its software with facility for upgradation.
- Collaboration with APSSDC improved the placement opportunities for students.

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.

- Prof. Ganapat Panda – Director, IIT Bhuvanewar.
- Prof. K.S. Rao – IIT, Kharagpur.
- Prof. Suraj Mandal – IIT, Kharagpur.
- Prof. Venkatesam - IIT, Hyderabad.
- Prof. Sesi – AU, Visakhapatnam.
- Prof. Valli Kumari AU, Visakhapatnam.
- Sri A.V Surya Tej – VSSC, ISRO, Trivandrum.
- Sri S. Aditya Varma - VSSC, ISRO, Trivandrum.
- Sri B. Satya Sravan - VSSC, ISRO, Trivandrum.

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 -

i. Curriculum development/enrichment

Since the Institution is affiliated to Andhra University, there is no scope for curriculum development. However, collaboration with NASSCOM, APSSDC helped in curriculum enrichment.

ii. Internship/On-the-job training

There is no scope for the college to send the students for On-Job-Training as all the eight semesters are fully packed with subjects. However, some companies like Samsung select the students for internships. M.E./ M.Tech. students take internship during their second year as the entire year is earmarked for project work.

iii. Summer placement

It is made mandatory by Andhra University to the students to take at least two week summer training in any industry of relevance during the summer vacation after completion of III year. All the students are placed in industries for a period of two weeks. Upon completion of the training each student has to produce the training report along with training completion certificate.

iv. Faculty exchange and professional development

There is no provision for faculty exchange and the institute is trying to cluster with other institutions of same level / higher level to facilitate faculty exchange for their self development and better exposure. All the faculty members are encouraged to become members in professional institutions like IE(I), IETE, IEEE etc. in order to attend the programmes conducted by the those agencies for their professional development.

v. Research

So far no links are established with any institution of higher learning for the faculty to carry out their research activities.

vi. Consultancy

As the consultancy at the institute level is at primitive stage, no links are established with any other institution as on date.

vii. Extension

Extension activities are not started by linking with other institution to date.

viii. Publication

Institute encourages students and faculty members for publications.

ix. Student Placement

- Signed MoU with APSSDC for imparting job oriented training for the students.
- Signed MoU with NASSCOM for training the students in Data Analytics and Cyber Security, there by widening the chances for the students to be placed in high-end jobs. NASSCOM recommend the trained students to its members.
- Signed MoU with Cocubes to carryout assessment of the students on aptitude, reasoning and communication and recommend the students to its 500+ clients.

x. Twinning programmes

The University regulation does not permit the institution to enter into MoU with any other Indian or Foreign universities for twinning programmes.

xi. Introduction of new courses

No scope to introduce any courses in collaboration with any other universities or bodies as per Andhra University regulations.

xii. Student exchange

No scope for the institution to exchange with any other institution or university as per Andhra University regulations.

xiii. Any other

NIL

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

Inspite of limited flexibility and stringent regulations of the parent university, the institution is making its efforts to establish linkages with maximum number of institutions or bodies for the betterment of students as well as the

faculty. The institution is trying to utilize each and every opportunity. Its continuous efforts yielded the following output:

- Established relations with APSSDC.
- Tied up with JKC.
- Secured prestigious SIEMENS skill development center.
- Tied up with ISB for entrepreneurship development.
- Established links with NASSCOM for high end training.

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

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?

Sir C R Reddy College of Engineering is the flagship institute of the prestigious Sir C R Reddy Educational Institutions, Eluru. The management of the institute is proactive and has a positive approach for the development of infrastructure facilities for the benefit of the stakeholders. The facilities provided conform to AICTE norms with provision for ample space, infrastructure and playground. All buildings and facilities are amidst lush green cover providing an ambience conducive to academic activities and holistic development of the individual.

The institution has identified the following issues which can enhance the teaching- learning environment:

1. **Infrastructure**: Creation of sufficient class room infrastructure and laboratories including
   - E-class rooms in each department-increased from 6 to 14 in total during 2015-16.
   - Upgradation of laboratories to augment learning Rs 70 lakhs equipment is procured during 2015-16.
   - Modernizing of computer labs at a cost of Rs 1.2 crore by procuring 400 new systems and software during the year 2014-15.

2. **Teaching**:
   - Faculty development programmes to improve pedagogical teaching and learning.
   - Outcome based education
   - Preparation of course delivery content and methods

3. **Support systems:** Library resources, internet facility and field visits
   - Increasing the internet bandwidth as per needs, presently up to 120 Mbps
   - Wi-Fi facility in the campus including hostels.
   - Procuring text books, reference books and books of higher learning.
   - Arranging field visits/tours.
   - Facility for the students to use digital learning through e-resources.

For the creation and development of facilities, the following guidelines are being followed by the college.

- HODs prepare and submit budget estimations of their departments before the beginning of a financial year.
- Budget is approved by principal and management and conveyed to departments.
- HODs call for quotations of equipment and prepare comparative statements.
- To ensure good quality, purchase committee carries out negotiations with suppliers and finalizes the orders.
- Purchase orders are placed by the principal and equipment is procured.

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 is located in a serene atmosphere at a stone's throw from Vatluru village and in the suburbs of the fast growing town of Eluru which is the district headquarters of West Godavari, Andhra Pradesh. The total extent of land of the institute is 30.48 acres. The college therefore has been able to buildup good infrastructure, playgrounds, amenities etc. as detailed below to promote learning.

Classrooms
The institution has sufficient number of well-furnished, well ventilated class rooms which are ergonomically designed to have proper lighting and good acoustics. Better aspect ratio is maintained for proper visibility and audibility.

Tutorial classrooms
Each department conducts tutorial classes as per curriculum to address the individual needs of courses and queries of the students.

Technology enabled learning spaces
Each department in the college has a technology enabled classroom called e-classroom to facilitate active and better learning. Each of these rooms is equipped with a computer, a digital projector and screen, and a public addressing system with a seating capacity of 72. Besides these internet through Wi-Fi is available in the entire campus.

Seminar Halls
Each department in the college has separate seminar hall to conduct

conferences, workshops and symposia for students and faculty. A centrally air-conditioned auditorium with a capacity of 500 and nine AC and Non AC seminar halls are also available for the needs of the departments or institution. Each seminar hall is equipped with a laptop, LCD projector, white board and a public addressing system.

Laboratories

All the laboratories are well furnished with good quality equipment for carrying out curriculum-oriented lab practical and also to carry out research activities.

Specialized facilities and equipment for teaching, learning and research:

- Communication skills lab called language lab is equipped with 70 systems, headphones and licensed software.
- Apart from the central library, each department has a separate department library with good collection of books.
- The college provides offline materials of NPTEL video lectures by IIT and IISc professors. The college library has 56,854 volumes of books with 17,089 titles. It also hosts a digital library with a number of online journals through IEEE, Springer, ASCE, Science Direct, etc. Reference books for all the subjects are available in the central library for self-learning.
- The college has a 120 Mbps bandwidth wired and wireless internet facility for the use of faculty and students. All the self-learning resource materials on different topics are made available in digital library for students to go through.

A.C AUDITORIUM A.C SEMINAR HALL

Machine Shop | Heat Engines Lab

DRAWING HALL | E-CLASS ROOM

RESEARCH CENTRE- SWAN (CIVIL) | RESEARCH CENTRE- MECHANICAL

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

- A full-fledged gymnasium and outdoor courts with facilities like cricket, throw ball, volley ball, shot-put, basketball etc. are available in the campus

to help students to maintain their fitness and for recreation and sport.

- The college Training and Placement Cell is actively working and arranging communication skills development classes to the students.
- A dispensary with required facilities is available for the benefit of the students and faculty members. The center is manned by a qualified medical officer and a medical assistant.
- The college has an NSS unit through which the students participate in various socially relevant services like blood donation camps periodically.
- The college also encourages the students to participate in various cultural and literary activities and make them excel in their fields of interest.

OUTDOOR GAME- VOLLEY BALL ATHLETICS - RUNNING

INDOOR GAME- BADMINTON GYMNASIUM FOR WOMEN

NSS ACTIVITY- HEALTH CHECK UP CAMP NSS ACTIVITY- BLOOD DONATION

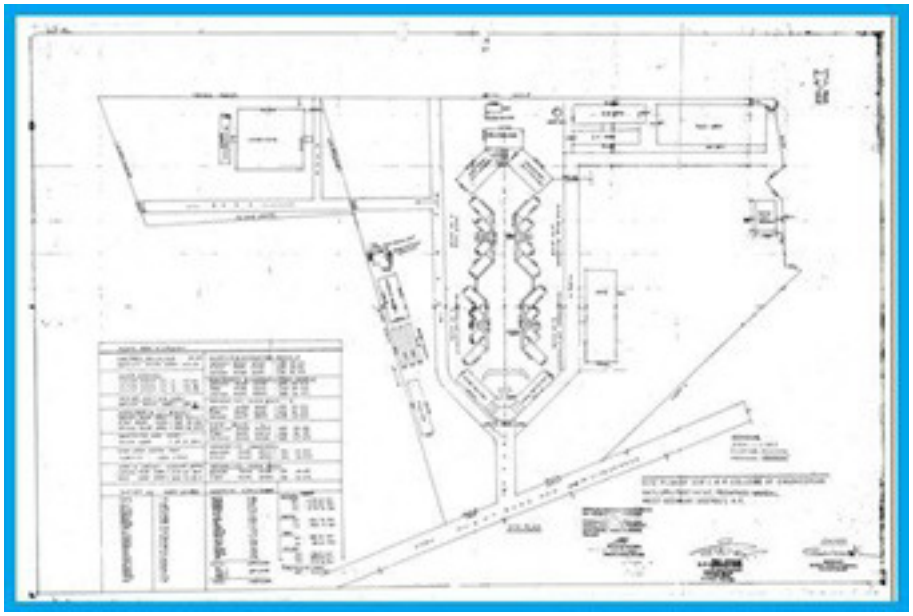
NSS – AWARNESS ON PLASTIC DISPOSAL CULTURAL PROGRAM

YOGA SESSION CAMP-NUTRITION AND HEALTH

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).

Infrastructure of the institute, shown in the master plan below, has administrative, departmental, and amenities blocks along with boys and girls hostels established as per AICTE and Andhra University norms and also has enough space to accommodate future expansion.



The available infrastructure is utilized optimally in the following ways:

- The classrooms are utilized for the conduct of classes during working hours as well as for tutorial classes and remedial classes.
- The central library is open up to 8:00pm
- The laboratories are utilized for conducting practical classes.
- Each department is equipped with a separate HOD room and staff rooms with separate cabins for each faculty member.
- The seminar hall and auditorium are utilized for conducting guest lectures, conferences, technical symposiums, etc.
- Parking facility, RO filtered water facility with of freezers etc., are available in the campus.
- Separate hostels for both boys and girls are available.
- Separate workshops, carpentry section, drawing halls are available.
- Playgrounds are regularly used by students for playing football, volley ball, badminton, cricket, hockey etc.
- Examination Section, Admission Section, Accounts Section, Training

and Placement cell, Canteen and Book Stores are available.

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

- Class rooms for the physically challenged are provided in the ground floor based on need.
- Lift facility is available in the high rise buildings.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel for Boys	Yes
Number of Rooms	118
Number of Students Accommodated	480
Hostel for Girls	Yes
Number of Rooms	211
Number of Students Accommodated	426
Recreational facilities, gymnasium, yoga center, etc.	Yes, a full-fledged gymnasium built at a cost of Rs. 1.46 crore with all facilities is available in the college.
Computer facility including access to internet in hostel	Yes
Facilities for medical emergencies	Yes
Library facility in the hostels	Yes
Central library is open from	Yes, 8 am to 8 pm on weekdays and 10 am to 5 pm on holidays
Internet and Wi-Fi facility	Yes,120 Mbps internet connectivity, wired and wireless, is available
Recreational facility-common room with audio-visual equipments	Yes, common rooms with audio visual equipments for both boys and girls hostels
Available residential facility for the staff and occupancy, constant supply of safe drinking water	Yes, we have guest house for staff members to facilitate any requirement for stay of visiting guests. College has RO plant with 20,000 liters per day capacity.
Security	Yes, adequate trained security personnel from outsourced security agency are

available in the campus round the clock and deployed at key locations. CCTV cameras are installed in various places in the campus.

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

- The institute has a first aid medical examination and dispensary room with necessary facilities and medical equipment.
- A qualified medical officer and one medical assistant are available.
- The medical room is provided with two beds, stretcher and a wheelchair.
- First-aid kits are available in all labs, library, workshop, hostels etc.
- Periodic medical checkups are carried out to both faculty and students.
- Medical group insurance is provided for all staff on rolls.
- ESI facility to all eligible staff.

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.

Grievance Redressal Unit

From its inception the Grievance Redressal Cell is in existence. It is involved in looking into specific grievances of the students and staff and has been successfully addressing the grievances, if any, from time to time.

Womens Cell

Institute has set up Women Protection Cell that functions separately for the benefit of the women employees and girl students. It monitors regularly

problems of girl students' and female staff, and address their grievances if any. It also enquires into the cases of students facing specific untoward incidents inside and outside the campus and recommends appropriate action.

Counseling and Career Guidance
Career guidance is provided by training and placement cell and faculty of each of the departments provides effective career guidance by organizing guest lectures by experts from academic institutions and industry for the students of third and final year students.

Training and Placement Cell
A dedicated training and placement cell works round the year to provide efficient and effective training and employment opportunities to all students. The training and placement cell collaborates with external bodies for generating better scope, opportunities and service. Regular skill development programme and technical development training programmes, mental ability improvement test and technical tests are conducted through dedicated computer based information systems where each student is evaluated from time to time. The students are given assistance for GATE, CAT, GRE, and TOEFL Examinations.

Health Centre
The college has a qualified medical officer working in the institute. Also the institute has a first-aid facility and dispensary with necessary medical equipment and other facilities. The medical room is provided with two beds, stretcher and wheelchair. First-aid kits are available in all labs, library, hostels etc.

Canteen
A hygienically maintained canteen facility with an area of 488 sq.mts. and 200 seating capacity is available in the campus.

Recreational spaces for staff and students
Amenities building is constructed and facilities like canteen, games room, gymnasium and recreation-cum-reading halls for both girls and boys separately are in place.

Safe drinking water facility
The institute has installed a modern RO system mineral water plant setup at a cost of Rs.3.5 lakhs with a capacity of 20,000 liters per day to provide safe drinking water in the college.

Auditorium
The college has an air conditioned auditorium with a seating capacity of 500. In addition to above, college also has 9 seminar halls to cater to the needs of

students and faculty.

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?

Yes, the institution has a library advisory committee. The committee is chaired by the Principal and its members are the HODs of academic departments and it is convened by the librarian. The committee advises on:

- Budget proposals and allocating funds for the library.
- Advice on development of infrastructure facilities.
- Assist the librarian in selecting books, journals and other library materials.
- Assist and advice the library staff in assessing and implementing changes.
- Recommend to write-off lost documents, obsolete and damaged books.
- Formulate the rules concerned to circulation policies, fines structure etc.
- Acts as a channel of information between the library and the academic departments.

4.2.2 Provide details of the following:

- **Total area of the library** : 4,454 Sq. Mts.
- **Total Seating Capacity** : 336.
- **Working hours**

Working Days	: 08 am to 08 pm
Holidays	: 10 am to 05 pm
Before Examination Days	: 08 am to 08 pm
During Examination Days	: 08 am to 08 pm
During Summer Vacation	: 08 am to 01 pm

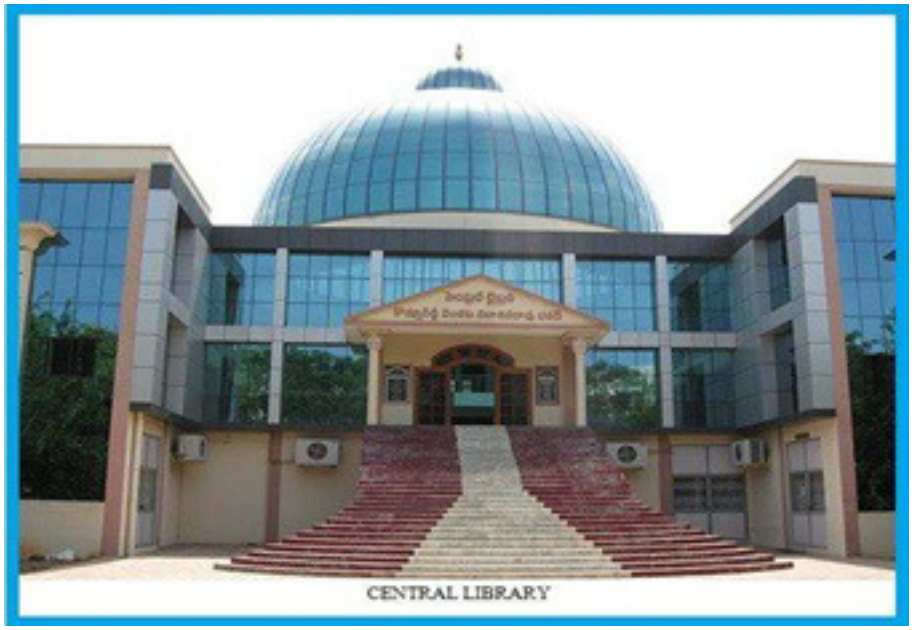
- **Layout of the library:**

The central library is the significant feature of the college and is fully automated with all modern facilities and uses software developed by the students of this college. The main features of the library software are bar code based circulation system, web-based public online catalogue, Provision for serials control and stock verification etc.

It has a total built up area of 4,454 square meters and was constructed at a cost of Rs 4.8 crore. The building has a ground and first floor. The ground floor consists of periodical section, browsing center, digital library, conference hall, discussion rooms, reprographic facilities, project reports and book bank for SC/ST Students. The first floor accommodates issue section and reference section. It has a capacity to seat 336 people.

At present the college library has about 56,854 volumes with 17,089 titles and subscribes to numerous e-journals through DELNET, 121 volumes of hard copy journals & 34 magazines. In the reference section, the library has over

4209 volumes and 3150 titles that support the activities of the research and development wing of the college. Digital library with 30 systems and a media server and a browsing center with 70 systems with internet facility are available in the library.



CENTRAL LIBRARY

BOOK CIRCULATION SECTION READING SECTION

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	2015-16		2014-15		2013-14		2012-13	
	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)
Text book	1114	3,56,172	1613	4,71,093	1067	3,14,084	193	41,253
Reference books	69	42,901	78	45,350	31	19,025	11	4,379
Journals/pe	113	2,36,602	120	2,39,414	119	2,37,757	120	2,26,978

riodicals								
e-resources	2	1,10,000	2	1,10,000	2	1,10,000	4	5,58,094
Any other (DELNET member ship Fee)		11,500		11,500		11,500		11,500

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

- OPAC: Available.
- Electronic Resource Management Package for e-Journals: DELNET GALE Infotrac engineering collection and management collection.
- Federated Searching Tools to Search Articles in Multiple Databases: No
- Library Website: No separate website for library. One page is allotted in college website.
- In-house/ Remote Access to e-Publications: Intranet available.
- Library Automation: The central library utilizes in-house software developed by the department of CSE Students using open source Linux operating system with front end-PHP and back end-my SQL.

Main features of the software are:

1. Barcode based book circulation system.
2. OPAC.
3. Serials control.
4. Library management

- Total Number of Computers for Public Access : 106.
- Total Number of Printers for Public Access : 1.
- Internet Band Width/Speed : 120 Mbps.
- Institutional Repository : Not Available.
- Content Management System for e-Learning: We have a SAN Server with 3 terabyte storage capacity and 1,000 hours of NPTEL Video Lectures,

SONET, MIT, Harvard Video Lectures etc. 100 users can access at a time through intranet anywhere from the campus.

- Participation in Resource Sharing Networks/Consortia: Membership in DELNET.

4.2.5 Provide details on the following items:

- Average number of Walk-ins : 443/day.
- Average Number of Books Issued/Returned : 449/day.
- Ratio of Library Books to Students Enrolled : 14.5:1
- Average Number of Books Added during Last Three years: 1324/year.
- Average Number of Login to OPAC : 54/day.
- Average Number of Login to e-Resources : 25/day.
- Average Number of e-Resources Downloaded/Printed : 35/day.
- Number of Information Literacy Trainings Organized:

  Freshers are introduced to various sections of the library, its resources, e-resources, rules and regulations etc. Online resources available, proper use of internet, opening and using e-mail accounts and other internet related information is also given on their first few visits to the library.

- Details of "Weeding Out" of Books and other Materials:

  During the year 2014-15,153 books were found in damaged or mutilated condition and were set aside. The college library has a policy for writing off books found damaged, mutilated or missing.

4.2.6 Give details of the specialized services provided by the library

- Manuscripts: Not Available.
- Reference:
  Reference section functions from 8am to 8pm and has a seating capacity of 152. Apart from regular text books and reference books, material is available for GATE-syllabus, old question papers etc., GRE, TOEFL, GMAT, CAT etc along with university old question papers for student and teacher use.
- Reprography: Available.

- ILL (Inter Library Loan Service): Through DELNET.
- Information Deployment and Notification:

Research papers requested by staff are mailed to their e-mail account. Further, job opportunities, scholarship details, P.G. admission notification, academic, research, scientific news are displayed on the notice board.

- Download: Downloaded video lessons are uploaded in SAN Server for student use.
- Printing: Laser printers
- Reading List/ Bibliography Compilation: No
- In-House/Remote access to Resources: Available through intranet.
- User Orientation and Awareness:

  Librarian addresses students regarding working hours, library resources, library services, library rules etc. Rules and regulations are displayed in circulation section. Library rules and regulations are also included in the college prospectus and on the college website.

- Assistance in Searching Database: Yes students are assisted in searching for books from database.
- INFLIBNET/IUC Facilities: No

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

The library facilitates users in locating and using information effectively. It assists students for their project work and technical paper presentations. Out-of-print books are available through resource sharing from DELNET. Students and teachers are encouraged to recommend books for addition to the library. New arrivals are prominently displayed.

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

For the physically challenged persons, their classmates / guardian can get the book issued on their behalf. Library staff delivers books to class rooms at their request. However the institute does not have visually challenged persons so far and necessary arrangements will be made if the need arises.

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

Yes, library collects feedback from students and faculty. It receives complaints and suggestions through the complaints box and takes appropriate action 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)**
- **Computer-student ratio**
- **Stand alone facility**
- **LAN facility**
- **Wi-Fi facility**
- **Licensed software**
- **Number of nodes/ computers with Internet facility**
- **Any other**

1.Number of computers with Configuration:

S.No.	Make/ Brand	Configuration	No of Computers
1	DELL	Intel- core i3 4160-3.60GHZ/Intel Q87 chipset/4GB DDR3 Ram/500GB SATA HDD/Gigabit LAN/18.5" Wide Led Monitor /USB keyboard/Mouse.	202
2	HP-406	Intel- core i3 4160-3.60GHZ/Intel Q87 chipset/4GB DDR3 Ram/500GB SATA HDD/Gigabit LAN/ 18.5" Wide Led Monitor /USB Keyboard/Mouse.	200
3	ACER	Intel- Dual core- 3 G-HZ/Intel G-41 chipset/2GB DDR3 Ram/500GB SATA HDD/Gigabit LAN/18.5" Wide LED Monitor /USB Keyboard/Mouse.	18
4	LENOVO	Intel- core 2 duo E7500- 2.93 G-HZ/Intel G-41 chipset/2GB DDR3 Ram/500GB SATA HDD/Gigabit LAN/18.5" Wide LED Monitor /USB Keyboard/Mouse.	218
5	HCL-	Intel- core 2 duo E7500- 2.93 G-HZ/Intel G-	143

	NEW	41 chipset/2GB DDR3 RAM/320GB SATA HDD/Gigabit LAN/18.5" Wide Led Monitor /USB Keyboard/Mouse/DVD-drive.	
6	HP-DX7400	Intel- core 2 duo E7200 2.53 G-HZ/Intel Q33 chipset/1GB DDR2 Ram/160GB SATA HDD/Gigabit LAN/17" LCD Monitor /PS-2 Keyboard/Mouse/DVD-drive.	318
7	HP-DX2300	Intel- Dual core D 925, 3.0 G-HZ/Intel 946gz chipset/512 MB DDR2 Ram/160GB SATA HDD/10/100Mbps LAN/17" LCD Monitor /PS-2 Keyboard/Mouse/CD-Drive.	136
Total			1235

2. Computer-student ratio:1: 4 for UG and 1:2 for PG

3. Standalone facility: Yes

4. LAN facility: Yes

5. Wi-Fi facility: Yes

6. Licensed software: Yes System software -7 & Application software – 52

7. Number of nodes/ computers with Internet facility: 1235

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

- The college provides internet facility to all faculty and students.
- Internet service is available for faculty and students at the respective departments to access the required study material from available e-resources and present them in their teaching process.
- In addition to departments, 70 computers with internet facility are provided in the general computer center at the central library.
- The Principals office, Administrative Office, Examination Section, Training and Placement Cell and faculty cabins are provided with internet facility.
- Wi-Fi connectivity is available in the campus and in hostels.
- Uninterrupted power supply is made available in the campus so that students and staff can access the internet without any interruption.
- Bandwidth has been increased from 40 Mbps to 120 Mbps for students convenience during 2016-17.

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

- To deploy information management system to facilitate e-governance throughout the institution to create a paperless office.
- To convert all classrooms into smart and internet enabled class rooms.
- To develop e-learning facilities further and complete digitization of resources for the faculty.

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

Amount spent for procurement, up gradation, deployment and maintenance of the Computers and their accessories in the institution during last four years:

Item	Amount spent in rupees			
	2015-16	2014-15	2013-14	2012-13
Computers and accessories	1,30,60,000	14,60,271	15,93,726	6,56,840

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?

The Institution has adequate computer facility for its faculty. Faculty members are provided computers with internet facility for preparation of teaching/learning materials in concurrence with the curriculum. Faculty is encouraged to use instructional tools like power point, videos, etc. for delivering lectures and technical talks.

- Internet access to all faculty and students help them to access journals, e-learning material from other universities and make use of the same for knowledge enhancement.
- Using NPTEL, MIT and other e-learning resources for self-paced learning that supplements regular lectures.
- Students` feedback is taken on-line and analysis of students` feedback is generated using software.
- Attendance, internal assessment and university marks are software based.

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.

Modern methodologies and pedagogy of teaching-learning forms the core of teaching-learning process. To make the student attentive and engaged throughout the class is a challenge to every teacher. This is possible only through effective and interactive teaching so that a student easily understands the concepts and gains maximum information in the class room and some of the practices followed are given below.

- Well-equipped computer labs, LCD projectors and OHPs are available to the faculty for conducting seminars, workshops, computer aided training.
- LCD projectors are used wherever required in class rooms to facilitate better communication and ensure active student participation in teaching-learning process.
- Students are assigned topics and are encouraged to make presentations to develop independent learning among students. Feedback on seminar presentations, assignments and projects provide a platform for participatory evaluation.
- e-journals and e-library facility are available for both students and faculty members to gain knowledge.
- The Wi-Fi enabled campus facilitates flexible learning hours.

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?

Yes, the Institute avails the National Knowledge Network Connectivity.

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)?

The Management is very judicious in optimizing the financial resources for procurement and maintenance of infrastructure and at the same time does not compromise on providing the essentials for student focused teaching-learning process.

The budget allocated for the maintenance and up keep is given below:

S.No.	Item	Budget allocated in rupees for maintenance				
		2016-17	2015-16	2014-15	2013-14	2012-13
a	Building	39,00,000	28,00,000	24,00,000	22,00,000	20,00,000
b	Furniture	25,000	20,000	20,000	20,000	18,000
c	Equipment	20,05,000	30,80,000	22,60,000	22,60,000	16,55,000
d	Computers	12,20,000	5,40,000	5,40,000	5,20,000	5,20,000
e	Vehicles	14,00,000	15,00,000	7,00,000	7,00,000	6,00,000
f	Any other	55,00,000	50,00,000	40,00,000	40,00,000	30,00,000

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

Maintenance of Infrastructure

Maintenance of Buildings
College has a campus engineer to implement the decisions taken by maintenance committee in connection with maintenance of infrastructure, electrical and plumbing requirements, painting and repairs if any in the campus. In addition, campus engineer attends to the complaints and suggestions from students and faculty. Civil works connected to construction and maintenance of buildings is taken up by the Construction committee.

Maintenance of Campus
The day-to-day cleaning of the campus is monitored by a Supervisor who is answerable to the administrative officer. Support is provided to him by assigning contingent staff for housekeeping, sanitation and gardening works in the campus daily. The maintenance supervisor prepares a schedule for regular maintenance of the campus.

Maintenance of Facilities

Maintenance of Library
The infrastructure and facilities available in the library are looked after by the library staff supervised by the librarian. Library stock verification is carried out annually.

Maintenance of Play Area
The physical director is in-charge for the play areas. The cleanliness is maintained with the man power provided by the maintenance supervisor.

Maintenance of Equipment

Maintenance of labs and lab equipment
Equipment in the labs is monitored by the lab technicians who supervise their functioning & calibration regularly and report failures to the lab in charges. The lab in-charges are responsible for the physical safety, preventive and breakdown maintenance of all lab equipment. They also suggest the purchase of new equipment, scrapping of obsolete and old equipment in the lab stock and for the replacement/ repair of the damaged.

Office Infrastructure
All the equipment and the other office infrastructure are maintained under the supervision and guidance of maintenance coordinators/conveners in electrical, mechanical and communication equipment. The computers located all over the campus are maintained by a hardware engineer and his team and regular up gradation is carried out for proper functioning. Annual maintenance contracts are made with outside agencies for maintenance of equipment where calibration and maintenance is required to be done by professionals and more qualified technicians.

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

Laboratories of the college have maintenance registers that record up keeping and repair of equipment. In addition, electrical and mechanical equipment is taken up for secondary calibration as and when required and as decided by the departments. The secondary calibration is carried out at college level. The equipment which requires high precision is to be calibrated by external agencies like Bluestar who calibrate at NABL level.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

Power Supply
To cater to the energy needs of the campus, the college has a direct 11kV express feeder from APEPDCL terminating in the campus HT substation at two transformers with a rating of 315 KVA, 11kV/415V. The direct line reduces number of power outages and also provides stable and constant voltage requirements of the college. Up keeping and maintenance of the substation is regularly done as per the guidelines. Transformer oil is tested and cleaned every year and certificate of quality is obtained.

The institute has two standby 200 KVA Cummins and 50 KVA Kirloskar make diesel generators as backup support in the event of power failure. Engine oil, air and oil filters are changed for each 500 hrs of operation. Computer labs have their own UPS power backups. Main supply of the college is maintained by separate team located in the power room and is under the supervision of EEE department.

Water Supply

An RO Plant with a filtering capacity of 20,000 liters per day is in operation since 2006.It provides potable drinking water and caters to the needs of the college. Water filters are changed once in 200 hours of operation. Sand bed and AC bed is opened and cleaned once in a year. Membrane is changed once in three years.

Learning resources

- The college has institute-wide 120 Mbps wired and Wi-Fi connectivity which is maintained by a team of hardware engineers.
- EPBAX and intercoms are maintained by an electronic technician.
- All computers are maintained by a team of hardware engineers.
- Library books are checked during summer for wear and tear. Partially damaged books are sent for binding and those beyond repair are discarded.
- Digital learning resources such as NPTEL videos etc. are maintained by library staff.

CRITERION V

STUDENT SUPPORT AND PROGRESSION

CRITERION V

STUDENT SUPPORT AND PROGRESSION

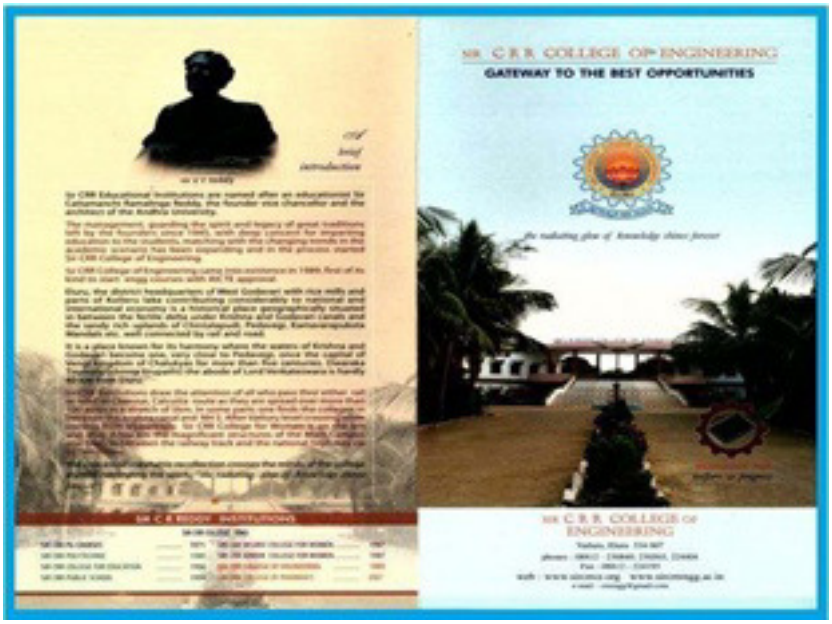
5.1 Student Mentoring and Support

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 college publishes college prospectus annually. This prospectus contains complete information regarding:

- The Society and Governing Body Members.
- Vision and Mission statements and quality policy of the institution.
- Programmes and courses offered by the college.
- Faculty details.
- Admission procedure and fee structure.
- Institution infrastructure.
- Academic support facilities.
- Rules and regulations.
- Library facilities.
- Amenities.
- Placements and career guidance.
- Co-curricular and extracurricular activities.
- Hostel accommodation for girls and boys.
- Sports and Games.

The institute commits itself to the data published in the prospectus. The college ensures that all the data provided in the prospectus is genuine and publishes the facts.



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?

Following are the scholarships given to students in the institute.

S. No.	Scholarship	2015-16	2014-15	2013-14	2012-13
1	SC	331	320	335	315
2	ST	29	41	58	64
3	BC	1145	1053	970	816
4	EBC	699	692	604	538
5	DW	2	1	2	2
6	MW	97	103	84	67
7	GATE	17	36	47	33

Scholarship amount disbursed

S.No.	Scholarship	2015-16	2014-15	2013-14	2012-13
1	AP State Govt.	8.58 Crores	8.10 Crores	7.34 Crores	6.14 Crores

The above scholarships are given to students by Andhra Pradesh State Government in terms of fee reimbursement.

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

More than 60% of the students receive financial assistance from the state government as fee reimbursement as per the government norms.

Year	Total no. of students received	Percentage %
2015-2016	2303	60.00
2014-2015	2210	68.20
2013-2014	2053	68.04
2012-2013	1802	64.05

5.1.4 What are the specific support services/facilities available for Students from SC/ST, OBC and economically weaker sections?

✓ **Support services/facilities available for SC/ST,OBC and economically weaker sections**

- All eligible SC /ST students receive financial assistance in the form of tuition fee, maintenance charges and pocket money from the government as per the government regulations and the institute provides necessary support to them in receiving these benefits.
- The college library provides book bank facility from which SC/ST students can borrow additional books.
- The institute provides all the support for eligible OBC/EBC students in receiving financial assistance in terms of tuition fee from the state government.

✓ **Students with physical disabilities**

- The college allocates the classes in the ground floor for physically disabled students.
- Lift facility is provided for the students.
- For the physically challenged persons their classmates / guardian can get the book issued on their behalf.
- Financial assistance is provided through fee concession by the government for eligible students.
- Students who cannot write on their own are assisted by scribes in the examination.

✓ **Overseas students**

There are no overseas students in this college.

✓ Students participating in various competitions -National and International

- Professional societies like ISTE, IETE, IEI conduct design presentations, model presentations and sports contests.
- The college encourages and supports students to participate in various competitions and conferences in India.
- Good number of students secure prizes in Inter University, and Inter Collegiate events.
- Students are encouraged to participate in various competitions which are essential for their holistic development. They are given an internal platform through inter departmental competitions and the selected students are then encouraged to participate at higher levels.
- The literary and cultural club coordinates to encourage student participation.
- The department of physical education trains the students for various events and assists them to participate in university events.

✓ Medical assistance to students: health centre, health insurance etc.

- A dispensary is maintained in the college campus with a qualified doctor and nurse to extend medical services to staff and students.
- College has tied up with ambulance services in eluru for emergency services.
- There are many multi-specialty hospitals situated at 3 to 5km distance for any medical emergency.
- Senior staff members look into the well-being and other requirements of the hostel inmates.
- There is a well-equipped gymnasium and fitness centre on campus. The department of physical education takes care of the games and fitness sessions of students.
- Health awareness programmes are conducted frequently which include cancer awareness programmes, anti-tobacco campaigns, eye check-ups wherein doctors from reputed hospitals are involved.
- Blood grouping camps are arranged every year.
- Accidental insurance coverage is provided for students.

College Health Centre

✓ **Organizing coaching classes for competitive examinations**

- The institution supports the students beyond the syllabus by arranging special training programmes, soft skill training programmes by experts on a regular basis.
- The institute assists the students who are appearing for GATE, GRE and TOEFL etc.
- Resources such as audio and video lectures are made available in the library for students to refer.
- Aptitude classes have been conducted for competitive examinations.

Mock tests for GATE and GRE

✓ **Skill development (spoken English, computer literacy, etc.)**

The institution conducts variety of programmes to hone different skills of students so that they are ready to face the job market.

- The college stresses the need for better communication skills from the first year onwards. Hence a language lab is incorporated in the curriculum.
- The college incorporated soft skills lab in the time-tables of II and III years to improve communication skills.
- Computer laboratory facility is provided in the central library and departments. Out of 1,235 computers available in the college, more than 200 computers with high speed internet connection are available to students even beyond the working hours for enhancing computer literacy among the students.
- The Skill Development Centre by Andhra Pradesh State Skill Development Corporation (APSSDC), Government of Andhra Pradesh conducts various courses to train students in emerging areas.
- Workshops and Expert talks are arranged frequently to support the student community to enhance their art of living skills.
- Training and Placement Cell organizes CRT programmes which help the students to improve presentation skills, interview skills and personality.
- Communication skill development classes are conducted by the Training and Placement Cell.
- Facilities are provided for students chapters of professional societies like ISTE, IETE and IEI etc. to develop interpersonal skills among students.

✓ **Support for "slow learners"**

- Remedial classes are conducted for slow learners.
- Faculty members always give a helping hand to students by providing support beyond class hours to clarify their subject doubts and provide notes which are simple to understand and learn.
- Peer teaching through group learning programme is conducted to encourage slow learners and academically weak students.
- Special seminars are given by students to slow learners under supervision of faculty members to make learning interesting and productive.

✓ **Exposure of students to other institution of higher learning/ corporate/ business house etc.:**

- The students are exposed to industries through industrial visits, internship training and project work.
- Students are given exposure to other institutes as they are encouraged to participate in seminars, workshops, conferences conducted in other institutes.
- Alumni meets and placement drives give exposure to students about the competitive world outside the institute.

✓ **Publication of student magazines**

- The institution publishes magazines and newsletters regularly on an annual basis. The institution magazine comprises of an editorial board with representatives from faculty and students.
- Newsletters are published at department level to highlight departmental activities like events conducted in the department, staff achievements, student achievements, creative arts and thoughts of students. These designed newsletters are managed entirely by students with guidance of senior faculty members.

Release of IEI Students Newsletter

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

The college has an Entrepreneurship Development Cell (EDC) to help the students in nurturing their talents and developing their entrepreneurial skills. EDC fulfils this among students by:

- Creating awareness on entrepreneurship among the students.
- MoU with Indian School of Business (ISB) in conducting entrepreneurship programmes.
- Conducting workshops, training programmes, seminars, awareness camps to promote entrepreneurship among the students by prominent industrialists for starting their own ventures.
- Creating awareness regarding the sources of help and support available to potential entrepreneurs from APITCO.

Technology Entrepreneurship Program

Entrepreneurship Awareness Camp

Entrepreneurship Development Cell

The following is the constitution of the committee of Entrepreneurship Development Cell:

S.No.	Name	Position	Department
1	Dr. K. K. Chowdary	Convener	HOD, MBA
2	Dr A. Yesu Babu	Member	HOD, CSE
3	Dr.K. Venkateswara rao	Member	HOD, ME
4	Dr. A. Srinivas Reddy	Member	HOD, EEE
5	Dr.T. Venkateswara Rao	Member	HOD, ECE
6	Mr.V.Prem Chand	Student Coordinator	MBA
7	Mr. G.Vykunta Rao	Student Coordinator	EEE

Impact of the efforts

- Some of the students of the college have become entrepreneurs and started their own industries. e.g. Web hosting company, SMS provider, Technology training company etc
- Students of the college have designed websites, built apps and developed software such as library software which helped them to become entrepreneurs.
- Students of the department of ECE and EEE designed different innovative electronic products, robots and secured several prizes at inter collegiate and national level competitions.

The following programmes are conducted by Entrepreneurship Development Cell

S.No.	Name of the Programme	Date	Resource Person	Industry/ Institution
1	Design thinking Workshop	30-6-2016 to 2-7-2016	Sri Abhi Paul Ms Aanchal Sood	Indian School of Business, Hyderabad.
2	Entrepreneurship Challenges and Opportunities	16-12-2015	Sri. Dr. Rama Krishna	Managing Director, Efftronics system pvt. Ltd, Vijayawada.
3	Design thinking Workshop	15-9-2016 to 16-9-2016	Ms Aanchal Sood Ms Mounika	Indian School of Business, Hyderabad.
4	Entrepreneurship Motivation	29-07-2014	Sri T.Raghava Prasad	Managing Director, Krishna Engineering Works, Vijayawada.
5	Entrepreneurship Awareness Camp	5-11-2013 to 6-11-2013	Sri E.Trimurtulu Sri N. Nagaraju Naidu	General Manager, DIC's, Eluru. Deputy General Manager, Andhra Bank, West Godavari District.
6	Entrepreneurship Motivation	29-7-2013	Sri K. Subrahmanyam	Managing Director, Kumar Pumps and Motors Ltd., Tenali.

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.

The institution provides various platforms and encourages student participation in extracurricular and co-curricular activities to ensure holistic growth and well-being of students physically, intellectually and emotionally.

Sports and Games

The college provides adequate playground and courts for sports and games as it realizes the importance of physical fitness. Well furnished indoor courts and spacious outdoor courts cater to the needs of students regarding sports and games. Ultra modern gymnasium enhances the fitness and logical quotients of students. Yoga and meditation halls facilitate mental, emotional and physical strength of students. Physical director trains the students in various games and sports and ensures their participation in university, district and state level competitions.

Sports and Track events Conducted

Games like Volley Ball, Cricket, Basket Ball Conducted

Girls and Boys Gymnasium

Literary, creative and cultural activities

Revelations the literary and cultural club brings out the abilities of students and provides a platform to exhibit their hidden talents. Various competitions like Essay writing, Quiz, Song, Dance, Elocution, Painting, Rangoli and Film making are conducted. Cultural events like folk dance, music, instrumental music, exhibit the talents of students. Moreover it gives the students a wider scope to refresh and participate in academic work with enhanced energy.

Department events

Various departments organize specific technical activities like TECHFEST having paper presentation, poster presentation, project expo featuring circuitex, robot design, hobby projects etc. to inculcate competitive spirit among students.

*** Additional academic support, flexibility in examinations**

- Due consideration is given to attendance of the students participating in important literary, cultural or sports events outside the college.
- Since the college has to follow the examination time-tables of the affiliating university, there is no scope for deviation from examination schedule. In the internal assessment examinations consideration is given for any candidate absenting himself/herself for regular test due to unavoidable reasons.
- Extra time is provided for the submission of assignments to students to cope with the academic activities.

*** Special dietary requirements, sports uniform and materials**

- The physical education department ensures that after the practice sessions students who represent the university are provided with nutritious food and snacks.

- Students representing the institution are given separate coloured jerseys.
- Sports equipment and materials are upgraded for the benefit of students.
- Institution provides free transport facilities for the students attending tournaments.
- Registration charges for events are paid by the institution.
- Students contribution/participation is recognized and appreciated through 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, GATE/CAT/ GRE/TOEFL/GMAT/Central/State services, Defense, Civil Services, etc.

The Training and Placement Cell of the college guide the students with regard to placements and higher studies. The major activities of the cell are:

- Guidance for the career planning of the students.
- Tips for personality development.
- Methods of improving communication skills, both verbal and written.
- Selection of institution for higher studies.
- Identification of the university/institute both in India and abroad.
- Conducting mock tests for TOEFL, IELTS CAT etc., in coordination with the outside institutes.

Achievements of students

S.No.	Event Name	2015-16	2014-15	2013-14	2012-13
1	GATE qualified	36	38	52	80
2	GRE/IELTS/GMAT qualified students	54	61	58	22

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

The institute strongly believes that counseling is the best method to help the students to overcome difficulties either in academics or in their behavior. Particularly at the adolescent age, the behavior of students is influenced by negative factors and counseling is the best way to put them in the right direction.

Academic Counseling

- The institute provides regular counseling to the students to address issues relating to their academic shortfalls and obstacles.
- The institute executes mentor scheme where a group of students are placed under the guidance of mentors.
- The role of faculty counselor/mentor is to monitor the academic progress of the students under his/her care and to take corrective measures for any aberration in their progress in academic pursuits. This also helps to check absenteeism.

Personal counseling

- The student counselors play the role of personal counselor with whom a student can confide his/her personal problems.
- The faculty advisor strives to arrive at an optimal/amicable solution through counseling along with the HOD.
- The Principal also counsels the students and tries to mould them in right path.
- A Grievance Redressal Cell is also constituted to address the grievances of the students and to attend to their problems.

Psycho-social counseling:

- Problems relating to social factors affecting students performance viz. peer pressure, parental support, cultural and religious background, socioeconomic status, and interpersonal relationships are addressed through their mentors.
- Psychological counseling is done to handle crises in relationships, deal with stress and other pressures, resolve fears, panic and anxieties, cope

with continuing family problems, work through difficult decisions, and overcome depression and sadness.

- Experts in psychology like Dr. V.V. Swaroop, Dr. B.V. Pattabhiram are invited to address students in the fresher's orientation class at the beginning of the academic year so that the new students joining the college can cope with the stress of engineering studies.
- Stress management programmes by Brahmakumaris and classes on the art of living are conducted regularly for students.

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).

The institution has a well-defined mechanism for career guidance and placement of its students. Training and Placement Cell is established in the college to impart full-fledged training and placement for the students.

Students from II year onwards are given training in skills required for placements. The college is one of the center for JKC (Jawahar Knowledge Center) under Institute of Electronics Governance, Government of Andhra Pradesh. The students who register for JKC programme are provided training in computer related courses to enable them to procure better employment.

Services provided

- Career guidance and counseling.
- Industrial visits for exposure to the industries.
- Liaison with industry for providing practical training (during vacation).
- Acquaint students with emerging careers, giving specific information.
- Help the students to develop innovative thinking.
- Help them use their competencies in developing skills required in specific professions.
- Generate professional profiles of our students.
- Allow these profiles to be viewed by prospective employers.
- Develop job-specific skills for interviews, group discussions, presentations etc.
- Conduct group discussions, mock interviews in line with organizational requirements for better placements.

- Provide guidance for various competitive exams such as GATE, GRE, TOEFL, CAT, GMAT and conducts mock GATE etc.
- Major emphasis on building up oral and written communication skills.
- Yearlong training through APSSDC on soft skills, technology and industry expected core skills.

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.

- Institution has constituted a committee named "Grievance Redressal Cell" to handle the grievances. This cell is meant for maintaining the records of grievances, actions taken thereon and settlement of grievances. It is composed of the Principal and senior faculty members.
- Grievance boxes are maintained by the college where students have to drop complaints on their grievance. The complaint box is opened regularly and checked. Any grievance found in it is scrutinized and necessary actions are taken by the cell.
- In case of emergency, the Principal conducts meetings and addresses the problems immediately. All the grievances have been addressed during the last four years.
- Grievance redressal system is practiced through several additional committees consisting of responsible faculty members and outside persons who are administrators/decision makers as listed below:

  - Grievance Redressal Cell.
  - Disciplinary Committee.
  - Women Protection Cell.

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

The college has a Women Protection Cell at college level, the purview of which extends to sexual harassment and violence against women at work place. It regularly monitors problems of girl students and female staff and addresses their grievances, if any. It also enquires into the cases of students facing specific untoward incidents inside and outside the campus and recommends appropriate action. Committee members are listed below:

S.No.	Name	Position	Department
1	Dr D. Saraswathi	Co-ordinator	FED
2	Ms. I.Hemalatha	Co-ordinator	ECE
3	Mrs. P.Vijayalakshmi	Member	FED

4	Mrs. Ch.Sowjanya	Member	MBA
5	Mrs. Y.Greeshma	Member	ECE
6	Mrs. G.Nirmala	Member	CSE
7	Mrs. T. Satya Nagamani	Member	IT
8	Mrs. E. Veerakumari	Member	EEE
9	Mrs. Lakshmi Pournima	Member	ME
10	Ms. M.Saraswathi	Member	Civil
11	Ms. Ch. Hema Krishna	Student Member	ECE
12	Ms. G.Laxmi	Student Member	ME

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?

An Anti-ragging Committee is constituted at institutional level to establish measures for prohibiting, preventing and banning activities of ragging menace within and outside the campus in accordance with AICTE/UGC regulations, Supreme Court directives and state act. The committee is responsible for taking action against those found guilty of ragging or abetting ragging actively or passively or being part of a conspiracy in promoting ragging.

Precautions taken by the college to prevent ragging:

- Display of Anti-Ragging Act flex boards at key locations in the college.
- Placing complaint boxes in every department.
- Formation of Anti-Ragging Squad to monitor the programme inside the college and residential locations with student concentration near college.
- Form separate committee with phone numbers of staff available to I year students staying in rooms near the college like Vatluru, Housing Board Colony, Satrampadu, Santhinagar etc.
- Form boys hostel Anti-Ragging Committee with warden, students and resident wardens.
- Form girls hostel Anti-Ragging Committee with warden, students and resident wardens.
- Form Ant-Ragging Committee with Management, Principal, parents, students, and prominent local people such as sarpanch of Vatluru, CI of III town etc.
- Arrangement of counseling classes to senior students by district administration, judicial and police department.
- Affidavit from students and parents is taken at the time of admission declaring that they shall never participate in ragging.

This effort made by the college has enabled to declare itself as a ragging free campus. No instance of ragging has been reported or detected during last four years.

The constituent members of the committee are given below:

S.No	Name of the Staff	Designation	Position	Contact No
1	Dr. G. Sambasiva Rao	Principal	Chairman	9502263131
2	Sri NVK Durga Rao	Secretary -Sir C R R Institutions	Management Member	9393694545
3	Sri Kommareddy Rambabu	Correspondent - Sir C R R Engineering	Management Member	9393194455
4	Dr S. Krishna rao	HOD , IT	Convener	9848034393
5	Sri K. Lakshman Mohan	Lions Club	Member	9848156756
6	Sri Raja Shekar	Circle Inspector III Town	Member	9440796604
7	Sri D. Prasad	Sub Inspector III Town	Member	9440904808
8	Smt G. Devika Rani	Sarpanch - Vatluru	Member	8332990788
9	Sri Subba Rao	Journalist Eenadu	Member	9848171085/ 9347342462
10	Dr. A. Yesu Babu	HOD, CSE	Member	9848228856
11	Dr A. Srinivasa Reddy	HOD, EEE	Member	9440070075
12	Dr. T.Venkateswara Rao	HOD, ECE	Member	9440650760
13	Dr. K.Venkateswara Rao	HOD, ME	Member	9985903096
14	Mr. D.S.R.K.V.Prasad	Librarian	Member	9492567007
15	Mr. K. Sanjeev Rao	Physical Director	Member	9848147494
16	Mr. M.L. Deepak	Placement Officer	Member	9490744828
17	Mr. K. Anil Chowdary	NSS Coordinator	Member	9666674674

18	Mr. V. Vinay	Canteen Contractor	Member	8688244477
19	Mr. K. Prem Chand	Student IV/IV EEE	Member	9640100808
20	Ms. Ch. Navya	Student IV/IV Civil	Member	8125143316
21	Mr. G. Srikanth	Student IV/IV CSE	Member	9966950236
22	Ms. A. Bhavya Savarika	Student IV/IV ECE	Member	9493006873
23	Ms. K. Uday Venkata Sai	Student III/IV ME	Member	7396800999
24	Ms. B. Bhagya Lakshmi	Student III/IV IT	Member	9652513869
25	Mr. S. Sai Kishore	Student I/IV ME	Member	9052135317
26	Ms. V. Deepthi	Student I/IV CSE	Member	9441556867
27	Mr. Sk. Nazeer	Student - Final MBA	Member	9640209280

Anti Ragging Awareness Programme

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

The institute has constituted welfare schemes for students as part of its continuous effort to encourage excellence and perseverance in academics. The student welfare committee manages all round development of students consisting of the members from management, staff and students. Some of the welfare schemes in the institute are;

- Health service-A dispensary with full time doctor Dr. S. Mohan Das and nurse with all facilities like beds, stretcher, wheel chair etc. to take care of health related problems of both students and faculty is available.
- Free comprehensive placement training.
- Spent an amount of Rs 3,26,656 for registering of students in Cocubes assessment during academic year 2015-16.
- Subsidized canteen facility.
- Students managed hostels without profit motive.
- College transportation at concessional rates is provided by the college.
- Free Wi-Fi facility to all the students in the campus as well as hostels.
- A separate scholarship section has been established to facilitate processing of applications and remittances of government scholarships.
- Stationary and reprography facility are available within the campus.
- Facility for indoor games and separate gymnasium for boys and girls are available.
- ATM facility is available.

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?

The institution has an active Alumni Association established in the year 2011.

Activities

Some of the college alumni have been absorbed as faculty and they take great pride in networking and organizing alumni meets through the Alumni Association. Alumni-meets are regularly organized and are well attended by our Alumni. Some of the activities are:

- The association organizes expert talks, seminars and also contributes towards placements.
- They conduct soft skill programmes for all the final year students.
- The Alumni works with the college to train students and get them acquainted with the requirements of the industry to be selected in the job market.

Major contributions

The alumni association paves way for the present students to have informal meets and interactions with the alumni which motivates and channels their focus in various areas of knowledge and skills through various soft skills programmes. Alumni have immensely contributed to the development of the college in the following ways:

- Provide guidance to the students for higher education and employment opportunities.
- Review changes and trends in the industry and giving inputs for design of curriculum.
- Provide feedback for evaluation of Programme Educational Objectives.
- Updating the current trends in the job market.
- Help the college in bringing more companies and industries for campus placements.
- Motivate the students to become entrepreneurs.
- Sharing and passing their experiences.
- Honorary guest lectures.

5.2 Student Progression

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

Student Progression	Against % enrolled			
	2015-2016	2014-2015	2013-2014	2012-2013
UG to PG	6.12	11.95	19.16	16.51
Employed in campus selection	33.33	22.77	12.62	8.13
Other than campus recruitment	11.59	21.06	27.57	44.26

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.

Details of programme wise pass percentage and batch wise completion rate is given in the table below comparing the previous performance of the institution and colleges of the affiliating university:

Course	Branch	2015-2016			2014-2015			2013-2014			2012-2013		
		CRR	SVP	SRKR	CRR	SVP	SRKR	CRR	SVP	SRKR	CRR	SVP	SRKR
UG	EEE	79.03	56.88	75.55	65.42	26.08	84.29	69.90	63.79	91.12	53.12	47.20	90.10
	ECE	80.97	75.65	79.88	95.00	80.2	94.4	79.25	78.8	91.23	66.93	93.6	91.75
	CSE	64.25	43.77	78.50	69.61	27.77	67.80	66.66	27.72	88.21	57.6	36.25	86.50
	IT	66.37	NA	72.21	73.17	NA	73.00	60.34	NA	75.41	45.00	NA	75.12
	ME	64.56	38.13	71.02	81.25	24.2	74.01	57.97	22.1	82.31	59.01	51.7	82.3
	EIE	73.46	NA	NA	45.00	NA	NA	61.90	NA	NA	50.94	NA	NA
	CIVIL	72.46	54.63	72.35	55.17	45.12	59.85	59.37	50.22	87.24	54.68	36.25	85.44
PG	MBA	97.87	NA	NA	100	NA	NA	100	NA	NA	96.42	NA	NA
	MCA	100	75.96	89.63	63.63	81.66	92.26	68.18	84.36	91.36	61.53	85.63	89.65
	M D	84.61	NA	NA	61.54	NA	NA	100	NA	NA	100	NA	NA
	CS	77.77	NA	72.22	76.47	NA	100	95.00	NA	79.89	53.33	NA	78.76
	VLSI	100	NA	NA	100	NA	NA	88.23	NA	NA	93.33	NA	NA
	PSA	94.44	NA	68.75	83.33	NA	78.26	100	NA	79.10	93.75	NA	78.45
	CST	97.05	NA	83.33	79.41	NA	87.12	100	NA	78.12	96	NA	77.10

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

The institution facilitates student progression to higher level of education and employment in the following way:

Higher Studies

- Creating awareness in students on opportunities in India and abroad regarding higher studies.
- Continuous assistance is provided to students beyond college hours for GATE, GRE, TOEFL, CAT.
- Training in aptitude is imparted by trainers.
- Students are provided with material that helps them to manage time and resources.
- Mock GATE and GRE tests are conducted to infuse confidence among them.

- Students are encouraged to speak in English and special training sessions are being conducted for them.

Employment

- Soft skill training is part of regular class work right from II year onwards and is taken up rigorously by the college Training and Placement Department to improve interpersonal skills. An exclusive campus connect CRT programme is conducted for final year engineering students.
- Comprehensive Training sessions are held for II and III year B. Tech. students by the in-house trainers as well as JKC trainers, with a special focus on verbal ability, aptitude, personality development, communication and soft skills.
- The Training and Placement Department regularly arranges a number of on- and off- campus drives and also provide facilities for transport to attend off campus drives.
- Hands-on training to students in contemporary industry tools and techniques is given in the college. Extensive training on various academic/industrial software and tools like STAAD PRO, MATLAB, PSCAD, ETAP, ANDROID APP DEVELOPMENT, RATIONAL ROSE, PLC, CATIA, HYPER MESH, ANSYS, PRO-E, STAAD etc. to improve employability skills is provided.
- Regular practice of group discussions on various topics, mock tests, technical quizzes, elocutions etc. is conducted to build confidence in students to face interviews.
- Financial assistance for Cocubes assessment test is provided by the college.

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

The institution has adopted certain practices over the years to minimize the student dropout rate:

- The institute has a counseling procedure for every student through which the student is assessed in terms of academic performance and a corrective procedure is adopted for those who are from the disadvantaged section.
- Slow learners are identified through observation of their performance in class tests and first mid examinations and remedial classes are conducted.
- Students with psychological / emotional problems are also motivated in a friendly way so as to reduce the risk of discontinuing their studies.
- Such under-performing students also have a tendency to miss the class work. Regular SMS, monthly reports are sent to parents of such students

and they are advised to counsel their wards apart from the counseling done at the college level.

The above efforts of continuous counseling prompt attention to students emotional and health needs and monitoring attendance shortage and communication to parents/ guardian have ensured limited fear of failure and reduced dropout rate in the college.

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 programme calendar.

Sports and Games play a significant role in physical, mental and emotional development of the students, particularly in technical institutions. The stress and strain caused by academic and professional demands, need relaxation and it can be attained through physical activity like sports and games. The physical director monitors sports and games of the institution and is assisted by supporting staff in executing his responsibilities.

The institution provides many sports facilities, both indoor, outdoor and ground facilities par excellence, matching the required standards of maintenance. The 400 mts athletic non standard track is spread around an area of 4,000 sq. mts. For boys outdoor games, 7000 sq. mts of ground is allotted for 2 Volley ball courts, Ball badminton court, Lawn tennis court, Kabaddi court, Kho - Kho court, Basket ball court, and Cricket field. For girls outdoor games 1270 sq. mts of ground is allotted for Volley ball court, Ball badminton court, Throw ball court and Tennikoit. Basketball court is common for both boys and girls.

A state of the art multipurpose gymnasium covering an area of 3000 Sq.mts provides indoor games like Table tennis , Chess, Caroms and Badminton (3 wooden courts) . The state of the art gymnasium consists of 6 guest rooms for outside participants and one special room for Yoga for both boys and girls. All the three shuttle courts in the indoor stadium are laid with wooden floor of international standards.

Outdoor Games

Name of the game	Total area available in sq. mts	No of courts/ field
Athletics non standard 400 mts track	4,000	1
Cricket	3,600	1
Football	2,200	1
Volley ball	720	2

Ball badminton court	480	1
Lawn tennis court	450	1
Kabaddi court	240	1
Kho-kho court	540	1
Basket ball court	540	1
Girls Outdoor Games		
Volley ball	360	1
Ball badminton	400	1
Throw ball	360	1
Tennikoit	150	1

Indoor Games

Name of the game	Total area available in sq. mts	Nos.
Carrom, Chess , T T boys	90	2 Boards each
Gymnasium for boys	144	10 stations, 19 items
Gymnasium for girls	90	19 items
Yoga class room	72	1 Room
T T , Carrom, Chess (girls)	60	1 Room
T T , Carrom, Chess (boys)	90	2 Rooms
Badminton wooden courts	600	3 courts
Student rest rooms	600	6 Rooms
Physical director room	54	1 Room
Gallery in Badminton courts	90	1
Non playing area	864	1
Space available to develop other Indoor activity	150	1

430 sq. mts area is allotted for Athletic activities.

Name of the area	Area in sq. mts
Boys Outdoor games	3,400
Field games	3,600
Sports events	430
Girls Outdoor games	1,270
Indoor games	3,000
Total area in sq. mts	11,700

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.

The college organizes many co-curricular, extracurricular and cultural activities at University, State, Zonal etc. levels.

- The college literary and cultural club 'Revelations' headed by faculty members is constituted to organize various literary, fine arts and cultural programmes.
- Various cultural competitions are conducted on the eve of important days like Fresher's day, College Annual day etc at institute level.
- Competitions are conducted regularly to encourage artistic talents among students.
- An annual inter college cultural event is organized in various events like Classical dance, Classical music-solo, group, instrumental, Painting, Drawing and Poster making to encourage artistic talents among the students.
- Several students participated in inter college computations and won prizes. College cultural association conducted various cultural programmes on the occasion of Freshers day celebrations.

Achievements in co-curricular and extracurricular activities

Year	Name of the Event	Position	Type of Event
2015-2016	Poster Presentation, AFOSEC -16,V.R.Siddartha Engineering College, Vijayawada	I	National
	Poster Presentation, TECHNOZION"16,NIT,Warangal	I	National
	Proverb Guessing, St. Theresa College for Women, Eluru	I	National
	Technical Quiz, Techfest-2016, Sir CRR College of Engineering, Eluru	II	National
	Photography, AFOSEC-16, V.R.Siddartha Engineering College, Vijayawada	II	National
	Intelligent Thought, Headstart-2015,CBIT,Hyderabad	I	National
	Paper Presentation on Solarizer, Techfest-2015, IIT Mumbai	III	National
	Sixth Sense Robotics, Techfest-2015, IIT Mumbai	III	National
	Project Exhibition, Lakshya 2K15, Lakireddy Bali Reddy, Mylavaram	I	State
	Project Expo, Technical Symposium, Lakireddy Bali Reddy, Mylavaram	I	State
	Debate on Internet of things, SAMYAK, K.L.University, Vijayawada	III	National

	ALGOMANIAC, ATMO'S15,The National Techno- Management Festival of BITS Pilani ,Hyderabad	III	National
	Defenders, Smart-Infra Fest, JNTU Hyderabad	II	State
	Technical Quiz, Supernova'16, SRKR College of Engineering, Bhimavaram	II	State
	Fashion Show, St. Theresa's College for Women, Eluru	I	State
	Auto CAD, Soudha 2K16, JNTUK, Kakinada	III	National
	I Thoughts and Design Freaks, Sudhee-2K15,CBIT,Hyderabad	I	State
2014-2015	Table Tennis, West Godavari District selections	III	District
	Paper Presentation, GEC FEST 2K'15 Gudlavalleru Engineering College, Gudlavalleru	III	National
	Poster Presentation ,SAMYAK 2K'15, KL University, Vijayawada	II	National
	Model Presentation, AFOSEC '15, V R Siddartha Engineering College, Vijayawada	II	National
	Technical Quiz, TECHNOZION "15, NIT Warangal	II	National
	Designing a Web Page, NIPUNA 2015, SRKR Engineering College, Bhimavaram	III	National
	Elocution, AP Yuvajanotsavam, St Theresa's College, Eluru	I	State
	Elocution, AP Yuvajanotsavam, St Theresa's College, Eluru	III	State
	Essay Writing, AP Yuvajanotsavam, St Theresa's College, Eluru	III	State
	Classical Dance, AP Yuvajanotsavam, St Theresa's College, Eluru	III	State
	Folk Dance, AP Yuvajanotsavam, St Theresa's College, Eluru	II	State
2013-2014	Singing , Cultural Fest , at Gudlavalleru Engineering College, Gudlavalleru	I	State
	Photography ,AALOK 2K14 , GVP College of Engineering, Vishakapatnam	III	National
	Blind Coding, Isquarer R2014 , GITAM University, Vishakapatnam	II	National
	Paper Presentation, BECTAGON2014, Bapatla Engineering College, Bapatla	III	National
	Coding , Esparx2014 , JNTUK, Kakinada	II	National
	Code Debugger, MAITRI2014, GIET, Rajahmundry	I	National
	Painting ,Techno Spark 2K14, Visakha Institute	I	State

	of Engineering and Technology,Visakhapatanam		
	Pirates, ELEN 2014, IIT, Hyderabad	II	State
	Spoorthy,Vignan Mahotsav 2014,Vignan University, Guntur	II	State
	Essay Writing, PRAKYATH 2014, Sir CRR College of Engineering, Eluru	II	State
	Elocution, PRAKYATH 2014, Sir CRR College of Engineering, Eluru	II	State
	Extempore, PRAKYATH 2014, Sir CRR College of Engineering, Eluru	I	State
	Extempore, PRAKYATH H 2014, Sir CRR College of Engineering, Eluru	II	State
	Debate PRAKYATH 2014, Sir CRR College of Engineering, Eluru	I	State
	Movie Making, PRAKYATH 2014, Sir CRR College of Engineering, Eluru	II	State
	Solo Singing, PRAKYATH 2014, Sir CRR College of Engineering, Eluru	II	State
	Instrumental, PRAKYATH 2014, Sir CRR College of Engineering,Eluru	II	State
	Techno JAM, Eprobe 2014 ANITS, Visakhapatanam	II	National
2012-2013	Paper Presentation, AFOSEC 2K13, VR. Siddhartha Engineering College	III	National
	Poster Making ,STEPCONE2013, GMR Engineering College, Vijayanagaram	II	National
	Model Presentation, GECFEST 2K'13, GEC Engineering College, Gudlavalleru	I	National
	Code Mantra, ESPARX 2013, JNTUK, Kakinada	II	National
	Classical Dance ,AURA-2012, St Theresa's College, Eluru	II	State
	Elocution,AURA-2012St Theresa's College, Eluru	I	State
	Quiz, AURA-2012, St Theresa's College, Eluru	II	State
	Quick Talk, AURA-2012, St Theresa's College, Eluru	I	State
	Elocution AP Yuvajanotsavam, IADP Hall, Eluru	I	State
	Technical Quiz,GUSAC Carnival, GITAM University, Visakhapatnam	III	National

Achievements in games and sports

S.No	Name of the Students	Name of the Game/Sports	Name of the Event and Place	Date	Achievement
1	K. Venkata Ramana	Kabaddi	District Team Podili, Prakasam	23-11-2014 to 26-11-2014	Inter district Participation W.G. Dist.
2	Ch. Nageswar Rao	Kabaddi	District Team Chittor	04-12-2014 to 01-12-14	Inter district Participation W.G. Dist.
3	B.L. Sashank	Table Tennis	District Team Guntur	26-11-2014 to 29-11-2014	Inter district Participation W.G. Dist.
4	T. Dedeepya	Basket Ball	South Zone Inter University- Annamalai University, Chidambaram	7-4-2012 to 11-4-2012	Andhra University Participation

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?

- Exit feedback is taken from all the outgoing students every year seeking their opinion on academic instructions and delivery, infrastructural facilities, library facilities, computing facilities, games and sports facilities, training facilities, support to placement activity, etc. The feedback of the students is compiled and all the suggestions made by the students are taken into consideration for effective improvements.
- The employers of the organizations are requested to give their feedback on the performance of the alumni of the college employed in their organizations and this feedback is utilized to modify their methodology of teaching to suit industrial needs.
- Institute interacts with campus recruitment team at the time of campus interviews and collects the feedback from them.

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.

- College publishes newsletters, magazines, brochures etc. every year regarding activities and achievements of the college. Students and faculty are encouraged to submit articles related to science, engineering,

technology, and also fine arts. College magazine content is edited and composed by students under the guidance of faculty.

- Department newsletters are entirely composed and edited by students themselves under the stewardship of faculty.
- College encourages the students to design brochures like Techfest, Prakhyath etc.
- Students are given the required motivation and conceptual to present technical papers at National level and financial support is given as per norms.

Year	Publication/Magazine	Date /Month
2015-16	IEI News Letter, Vol. 5 ELITE News Letter,Vol. 10 IETE News Letter , Vol. 5	Dec 2015 March 2016 March 2016
2014-15	IEI News Letter, Vol. 4 ELITE News Letter,Vol. 9 IETE News Letter , Vol. 4	Dec 2014 March 2015 March 2015
2013-14	IEI News Letter, Vol. 3 ELITE News Letter,Vol. 8	Dec 2013 March 2014
2012-13	IEI News Letter, Vol. 2 ELITE News Letter,Vol. 7	Dec 2012 March 2013

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

There is no students association at the college level. However, students of each department have their own association which organizes various programmes such as Paper Presentation, Poster Presentation, Model Making/Circuit Designing/Project Designing, Debugging, Technical Quiz, Technical Talk, General Quiz, Aptitude Test, Group Discussion, Essay Writing, Sports, Games, Cultural events etc. These activities are funded partly by the contributions made in the form of membership registration fees from the students.

Student Associations of different departments of the college are given below.

ECE Department : IETE
EEE Department : IEI
CSE Department : CLASSIC
IT Department : ELITE
ME Department : SUMMITE
CE Department : RACE
MBA Department : CHAMS
First Year Department : CREATE

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

The various academic and administrative bodies with student representatives are:

- Literary and Cultural Club.
- Library Advisory Committee.
- College Magazine Committee.
- Student Welfare Committee.
- Young Researchers Club.
- Robotic Club.
- Canteen Committee.
- Anti-Ragging Committee.
- Women Protection Cell.
- Class Work Review Committee.
- Entrepreneurship Development Cell.
- Training and Placement Cell.

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

An alumni portal is designed in the college website for better interaction between the college and alumni. The members of college administration and the senior faculty of all the departments participate in alumni meetings for the development of the institution. The departments seek the opinion/suggestions of alumni on various developmental activities by sending mails to them and requesting them to fill the form supplied in this regard.

Network with the Former Faculty Members

The institute is happy that the faculty members who left the college maintain good rapport and cherish their association with this college and they are invited to all the important functions of the college. Further they respond favorably to the academic activities to which they are invited. The department invites the former senior faculty to deliver guest lectures and also to extend their expertise in Research and Development.

Former faculty members of this college have formed an online group for interaction and show their concern for the institute.

CRITERION VI

GOVERNANCE AND LEADERSHIP & MANAGEMENT

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 of the Institute

To emerge as a premier institution in the field of technical education and research in the state and as a home for holistic development of the students and contribute to the advancement of society and the region.

Mission of the Institute

To provide high quality technical education through a creative balance of academic and industry oriented learning; to create an inspiring environment of scholarship and research; to instill high levels of academic and professional discipline; and to establish standards that inculcate ethical and moral values that contribute to growth in career and development of society in general.

Objectives of the Institute

To build a productive and mutually beneficial partnership with all stakeholders including students, faculty, management, parents, employers, and alumni and to transform students into competent engineering professionals with good ethical values and societal responsibilities, the college has identified the following objectives in tune with the Vision and Mission of the institute:

- Provide students with a solid foundation in the principles of engineering and technology.
- Improve the analytical and problem-solving skills of students.
- Provide a solid foundation for good communication skills.
- To instill discipline and hard work necessary for academic achievement in students.
- To inculcate skills necessary for team work and resources management by taking up multi-disciplinary projects, participation and organization of co-curricular activities.
- To make students aware of statutory and international standards for design so as to face challenges in the industry.
- To provide an environment that will help students grow into responsible citizens with good moral and ethical values.

- Continuously improve the critical areas of faculty education and training for effective content delivery, academic and industrial research.
- Develop rapport and partnership with industries and professional bodies for awareness on ongoing technological developments.
- Build industrial consultancy work and possible solutions to engineering challenges faced by the society wherever possible.

Quality Policy

To give emphasis on

- Enhancing industry specific technical skills and soft skills.
- Consultancy to industry.
- Advancing scientific and technological knowledge.
- Meeting the social obligations.

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

The institution is managed by the management committee of Sir C R Reddy Educational Institutions that takes pride in managing some of the quality educational institutions that includes schools, colleges, management institutions, engineering and other professional institutions. The Institution believes in practicing participative management, decentralisation and delegation of authority. The top management inspires academia to achieve excellence at national level in the field of higher education.

The management plays the role of a facilitator with adequate financial and human resource support for the academic and administrative works. The principal contributes in the policy decisions of the management with respect to the institution. Principal being head of the institution communicates the decisions of the management in the head of the departments meeting, which is comprised of all the departmental heads who in turn communicate the same to faculty and take feedback. The management and principal encourage faculty and supporting staff to formulate system process and procedure for imparting quality education true to the spirit of the institute's vision & mission and evolve 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 fulfilment of the stated mission**

The mission of the institution is to produce highly competent engineers with excellent technical and communication skills. The students are trained in these

aspects through regular curricular, co-curricular activities like guest lectures, seminars and training in various other aspects. As many of the students are from the rural background there is a need to stress on improving their communication skills and make them job / placement ready by the time they leave the institution. Keeping this in mind the training and placement and English departments are strengthened, which in turn reflects the mission statement.

The management is proactive and supports all the activities and takes responsibility in providing the necessary facilities for growth of the institution. Thus the leadership helps in moulding the students into worthy citizens of the society.

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

Based on the policy statements, the management advises the staff to accomplish the strategic plans through various activities. All the plans implemented at various levels are incorporated into institutional strategic plan. The action plans for operations are prepared under the supervision and guidance of the principal and heads of the departments. The success of different activities is ensured through strict adherence to the action plans such as:

- Academic calendar for the institution which details the curricular activities.
- Calendar of events for co-curricular and extra-curricular activities by individual departments.
- Budgetary sanctions.
- Course file preparation with lesson plans and course plans.

- **Interaction with stakeholders**

Keeping the stakeholders such as students, faculty, parents, alumni and industry in mind, the leadership focuses on how to interact with various stakeholders. The inputs and feed back about the functioning and various other aspects of the institution is collected through a number of ways. Interaction is done with students through various means like grievance redressal committee, formal & informal feedback, counselling etc.:

- Alumni provides best source to obtain fair feedback based on their experience within the institution and the external world.
- Parents meeting during the admission process, interacting with them during counselling and obtaining the views and suggestions of parents.

- Recording the opinions of the academicians and other famous people when they visit the institution
- Interaction with faculty members through various formal and informal meetings and also obtaining feedback from them.
- The feedback of the recruiters from various companies helps the institution to identify areas for improvement of students.
- The institution also tries to get feedback from the employers through the training and placement cell about the performance of the graduates working in their organization.

The feedback received from all stakeholders is critically reviewed, analyzed and remedial actions are initiated. The management encourages the participation of the staff in the process of decision-making in institutional functioning. The personal interaction of the principal with various stakeholders, the faculty, the non teaching staff, the students and the guardians also plays an important role in this. Thus, participatory role of the management encourages and sustains the involvement of the institution staff, which is necessary for the efficient and effective functioning of the institution.

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

The inputs collected from various stakeholders are taken into cognizance by the management. The management encourages the participation of the staff in the process of decision-making in institutional functioning. The personal interaction of the principal with various stakeholders, the faculty, the non teaching staff, the students and the guardians also plays an important role in this and helps them in identification of critical areas for development and reviews progress in continuous improvement.

- **Reinforcing the culture of excellence**

The institute believes in motivating students to excel in academic, co-curricular and extracurricular activities. To ensure that the institution is on the right track towards achieving academic excellence, the management, principal and staff work together continuously. The thrust of all curricular and extracurricular engagements is on enhancement of quality. The students are trained to take responsibility and initiative to act on opportunities and achieve excellence.

- **Champion organizational change**

The institute initiates organizational change by visionary leadership and commitment to key stakeholders in its quest for excellence. The institution has

taken practical approach to promote the changes in the process and procedure in the system as per the suggestions given by stakeholders and alumni for the better functioning of the institution. The participatory role of the management encourages and sustains the involvement of the faculty and staff which is necessary for the efficient and effective running of the institution. The institution is always open to change in policy and also helps other institutions under Sir C R Reddy Educational Institutions in every endeavour.

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?

Institution is totally committed to various aspects of continuous improvement and evolves modified strategies for the betterment of quality. Close and regular monitoring of critical activities ensures effectiveness of the plans that are to be implemented. Head of the departments meetings are held every week to discuss not only regular aspects but also how various plans and policies are being implemented in the institution. Policy decisions taken by the appropriate authorities are closely monitored by the respective committees for the implementation of decisions, noticing the changes during implementation and suggest suitable actions.

Result analysis ensures in identifying different issues related to the performance of the students of the institution not only in comparison with previous years but also with the other affiliated institutions of the university. Class work review committee meetings help different departments in framing strategies for full coverage of the syllabus at a uniform pace. Attendance monitoring and analysis helps in identifying under-motivated students to be counselled so that they are in the regular stream and thus improving overall performance of the institution.

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

The top management of the institution provides academic leadership to the faculty through support to academia for promoting research, setting academic priorities, and exposure to knowledge through workshops, conferences etc. Management provides adequate freedom to faculty for strengthening teaching–learning process, academic advancement and research.

6.1.6 How does the institution groom leadership at various levels?

The institute mainly focuses on transformational leaders through giving freedom and power to do different activities independently at various levels. Faculty members are encouraged to organise and/or attend various training

programmes such as faculty development programmes, refresher courses, conferences etc at reputed institutes in the country. To groom their leadership skills faculty members are allowed to visit various institutes/universities. Students are also encouraged to organize various programmes to build leadership skills.

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

The Institute has a well-structured decentralized system with definite roles and responsibilities. The policies largely aim at reducing central management size and reorganizing delivery thereby giving freedom to departments for effective governance of the institution. The structure of the leadership is so formulated as to plan, monitor and implement various activities to attain the Vision and the Mission of the institute. Functioning of system at every level is reviewed and necessary changes are brought into form a basis for continuous improvement. Duties and responsibilities are shared at different levels to ensure smooth functioning. Academic responsibilities are fairly divided among all the staff members. Committees are appointed for the various academic and co-curricular activities to be conducted in the course of the academic year. The department heads, class teachers and committee coordinators contribute in their specifically assigned roles pertaining to academic engagements.

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

Yes, the institution promotes participative management. It strongly believes in the active involvement of all the staff members of institution for effective management. The principal with the heads of the departments discusses the needs, problems and suggestions to improve the educational quality and infrastructure to talk to the management for further action. The teaching and non teaching staff are represented in the institution committees to manage different institutional activities.

Some of the available committees are as follows:

- Anti Ragging Committee.
- Grievance Redressal Cell.
- Disciplinary Committee.
- Academic Cell.
- Library Advisory Committee.

- Women Protection Cell.
- Entrepreneurship Development Cell.
- Class Work Review Committee.
- Internal Quality Assurance Cell.
- Examination Cell.
- Training and Placement Cell.
- Student Welfare Committee.
- College Magazine Committee.
- Canteen Committee.

This empowers the department heads and individual faculty with flexibility in taking decisions on academic administration at department and institutional level. The management addresses various issues of the institute at regular intervals and periodically conducts review meetings and collects suggestions from faculty members to develop the road map for the future academic activities.

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?

Yes, the institution has a formally stated quality policy and is committed to bring out and nurture the talents and skill of youth in the fields of engineering, technology and management to cater to the challenging needs of society and industry.

The quality policy is designed keeping in view of the vision, mission statements with inputs and expectations of the stakeholders in order to contribute the growth of knowledge, addressing social concerns. It is driven by active support of management, faculty members, parents and student community and academic administrative research policies.

All the strategies are monitored by principal and heads of the departments to decide on academic quality control issues. This is achieved by

- Enhancing overall knowledge of the students.
- Providing excellent infrastructure and conducive learning environment.
- Enhancing the competence of faculty and promoting R&D programmes.
- Collaborating with institutions and industries.
- Ensuring continual improvement of quality management system.

Quality policy is reviewed every five years and is disseminated through display at vantage points in the laboratories, library, departments and administration offices and on the institution website.

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

The institution has a perspective plan for its development. The key aspects considered are the global changes and the emerging needs of society and students community. The perspective plan for development is clearly visible through the stages of systematic growth of the institute over last 27 years in academic programmes as well as infrastructure.

The institution makes effort in finding the key performance indicators from various perspectives for performance assessment and development. The following are the salient features of the developmental plan of the institute:

- To make the institute a premier institute in the state and a centre of excellence.
- To make each department as a research centre by furnishing latest equipment and highly qualified faculty.
- To train the students to make them ready for facing challenges at national and international levels.
- To mould all-round personality of the students and make them leaders in their respective fields.

6.2.3 Describe the internal organizational structure and decision making processes.

At the top of the structure is the management. The institution is the flagship institution of Sir C R Reddy Educational Institutions, an old and prominent philanthropic society well known in the state. The elected governing body of the management oversees the functioning of the institution. Its representative in the institution is the correspondent.

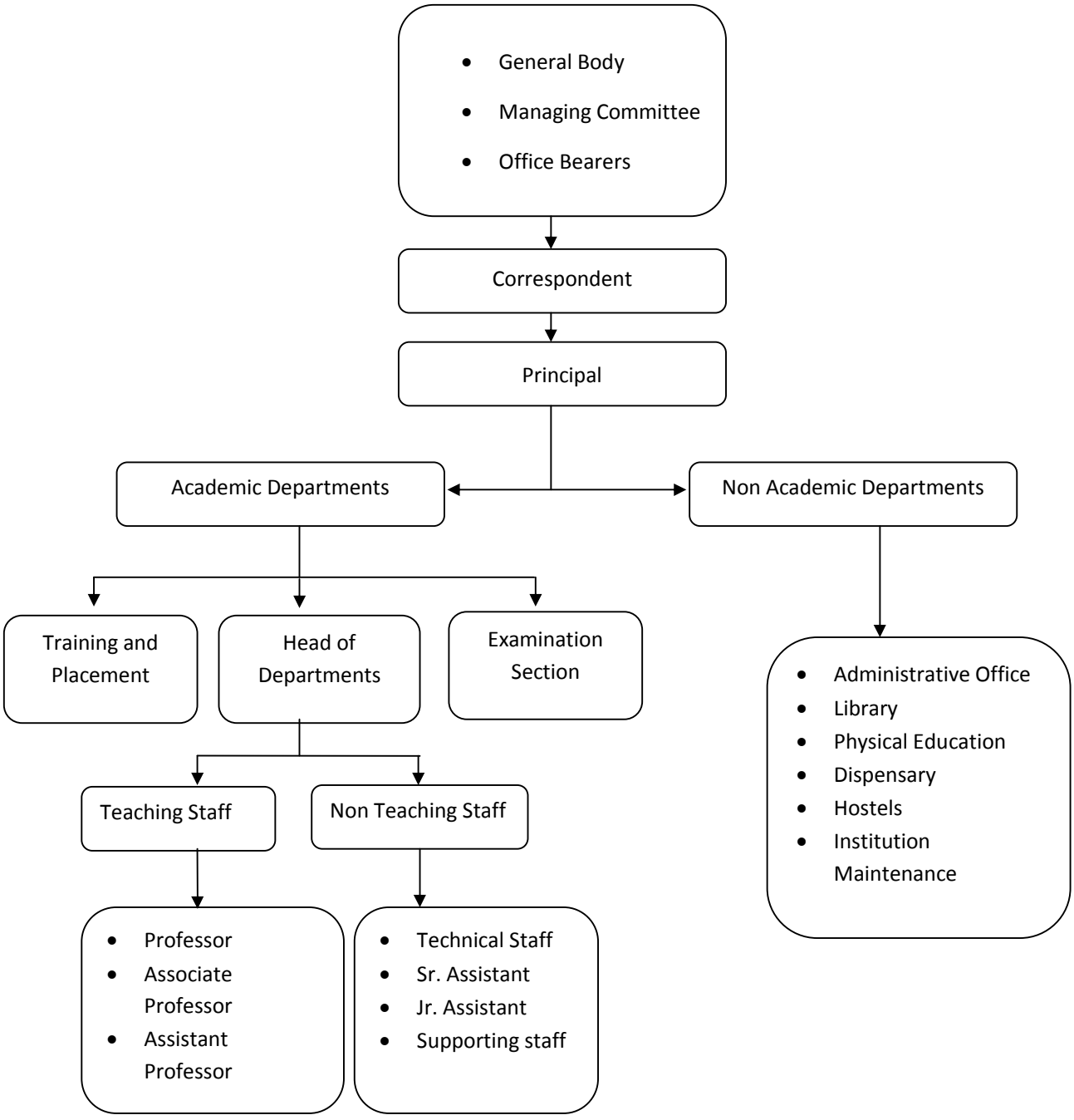
The principal of the institution is the head of the institution and looks into both academic and administrative matters and acts as a bridge between the management, staff and students. Administrative officer works with the principal in executing general administrative works.

Head of department is responsible for the functioning of the department as per the laid down policies of the institution and is answerable to the principal. Head of department prepares budget estimation for the department for its operation, maintenance and development. Head of department constitutes various committees at the department level for smooth implementation of

various activities. Coordinators of all committees at the institution level report to the principal.

The training and placement cell looks into all activities related to campus recruitment and training of students and reports to the principal.

The organisational structure of the institution is depicted below.



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

- **Teaching & Learning**

Based on the recommendations of academic audit, the following specific measures have been taken by the institute to improve teaching and learning process. As the institution is heading towards outcome based education, every effort is made to transform the teaching-learning environment by choosing the following methods appropriate to specific courses:

- Tutorials and remedial classes in specified subjects.
- Learner centric interaction is implemented to make the students to be proactive and dynamic.
- Special lectures are arranged on specific topics by industry experts.
- Extended library and laboratory working hours beyond the institution timings.
- Faculty to be self motivated and responsible to take own initiatives for remedial classes beyond curriculum coverage etc.
- Stress on improvement in communication skills in English language through conduct of additional English input sessions during II & III years.
- Aptitude classes for campus placements.
- Better understanding of fundamentals with the help of videos and PPT slides.
- Thrust on e-learning by the use of NPTEL material/ on line courses etc.
- Imbibing practical orientation through thrust on quality lab classes, industrial visits.

The effectiveness of teaching – learning process is reviewed on regular basis.

- **Research & Development**

The institution encourages culture of research among teachers and students. Some of the initiatives for encouraging R& D are:

- Availability of adequate journals, digital library facility, reference books, internet and lab facilities.
- Sponsorships are provided for researchers to visit universities in India for attending conferences / workshops/ QIP.
- Motivation and guidance to apply for funded research projects.
- Rewards for quality publications in peer reviewed journals.
- Encouragement for higher studies.

- **Community engagement**

Many community oriented tasks are regularly conducted and students take part in them enthusiastically:

- The students of the institution offer their service to rehabilitation of institutions and old age homes.
- Practices like planting trees, road safety awareness campaigns, earth hour campaign etc., are encouraged to generate social awareness among our students.
- Through NSS programme, various activities like blood donation camps are organized and thus the students are involved in the social service.
- Independence day, Republic day, Engineer's Day, Teacher's day, World Environment day, etc., are observed with due respect.
- Conduct SWACH BHARAT in the campus as well as nearby villages.
- Literacy camps are arranged in nearby villages through NSS programme.

This helps in inculcating good moral values and the feeling of humanity in students

- **Human resource management**

Institution recognizes that faculty members are the strength and real asset of the institution. The institution takes appropriate welfare measures to retain faculty, encourages faculty to upgrade their skills and also attract quality faculty during recruitment. Employees are given utmost importance and their needs are recognized well:

- Recognizing quality work in teaching and administrative areas and suitably rewarding with promotions ensures faculty retention.
- Deputing faculty on leave for higher education for their career advancement as well as institutional growth.
- The institution frequently arranges in-house training programmes and also deputes faculty to other organizations for acquaintance with latest developments.
- Service rules are made transparent and faculty and staff are benefited from PF, Gratuity, ESI and other benefits like CL, EL, ML, adequate vacation, in-house dispensary etc.
- Canteen facility is available at subsidised rates.

- **Industry interaction**

The institute strongly pursues linkage with industry and professional bodies through various modes of interaction. Both UG and PG students are motivated to undertake their end semester project in the relevant industries of their domain to prepare them to meet the requirement in the industries. Industrial tours are arranged for exposure to industrial environment. Industrial training is mandatory during summer before start of final year.

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 head of the institution has opportunity to bring the information received from the stake holders, either in the form of formal feedback, informal feedback by way of meetings with academicians, employers or parents, to the attention of top management. The principal has periodic meetings with the teaching staff, and the feed back issues are discussed in these meetings. Students are informed about management decisions through circulars, notice boards, institutional website and news letters published.

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 encourages the participation of staff members in the process of decision making. Promoting belongingness in faculty and staff paves the way for effectiveness and efficiency in the processes. To this end, the management ensures that faculty are able to work in a stress free environment with full academic freedom. The management believes that the effectiveness and efficiency of the institutional processes depend upon participative decision making, focus on quality enhancement and faculty upgradation. Any initiative towards enhancement of quality is encouraged and appreciated through platforms like review meetings.

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

During last year, governing council meeting was held and some of the prominent issues raised / observations/ recommendations made by the management council and status of implementation of such resolutions are appended below:

Resolution	Status / Follow up action
Fifty percent of the Campus Recruitment Training fee (i.e., 1000/- per student) is paid by management.	More number of students will get benefited.
E-class room facility	Over Rs 10 lakhs spent to convert regular class rooms in to E- class rooms.
Efforts for Improvement in Placements	More Training Classes, online Practice Sessions, Mock Interviews are arranged.
Upgradation of laboratories and other facilities	Over Rs 1.16 crores allocation on upgradation of laboratories, software and learning infrastructure.
Upgradation of sports facilities	Over Rs 25 lakhs were spent on improving sport facilities.
Skill upgradation to students	SIEMENS skill development centre. Spending Rs 25 lakhs to provide infrastructure to accommodate skill development centre.
Improving basic amenities to women faculty and students	Construction of additional toilets and renovation of existing toilets by spending over Rs 30 lakhs.
Recognition from NAAC & NBA	Application filing to NAAC.

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?

The Andhra University has no provision for granting the status of autonomy. The institution has to file an application to UGC for grant of autonomous status.

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?

The institute has a grievance redressal cell to resolve the grievances of students and staff. Grievances redressal cell provides complaint boxes at various locations on campus. Grievances redressal committee conducts meetings frequently and discusses the grievances given by the students and staff and takes necessary steps to resolve the grievances immediately. Appropriate sub-committees are formed if needed to identify nature of

grievances raised and address the issues involved. The mentoring system also helps in taking prompt action on any complaint received from the students. If faculty or students are not satisfied at the institution level, they can approach the university appointed ombudsman.

Anti-Ragging committee is formed and the contact numbers of the committee members are displayed on all notice boards and institution website through which students can contact the committee members for ragging related issues to resolve them.

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 instances of court cases were noticed.

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

Yes, the institution has a mechanism for analysing the student feedback on institutional performances.

- Feedback from the students regarding the staff members, facilities and other issues is taken twice a year.
- The feedback is analysed by head of the department and follow up action is taken.
- The adverse feedback referred to principal.
- Principal and head of the department together make an appropriate decision.

The feedback obtained is utilized by the principal, head of the departments, and faculty to improve the institutional performance. The results are then discussed and conveyed to the management. The management discusses these problems and conveys its decision for overall improvement.

In response to feedback some of the steps taken to improve performance of institution are:

- Bandwidth of internet has been increased from 40 Mbps to 120 Mbps.
- Library timing has been increased to 8 am to 8 pm from 9 am to 7 pm.
- Training and placement facilities are enhanced.

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 institution encourages and promotes professional development of faculty and supporting staff through the following efforts and mechanisms:

- The institute encourages teaching faculty to register for Ph.D. programmes to enhance their knowledge in subject domain.
- Conducts seminars, conferences, workshops on advanced technologies and Innovative teaching-learning strategies.
- Conducts training programmes on pedagogy of teaching for the faculty members.
- Conducts in-house training programmes on communication skills and MS Office for administrative and non teaching staff.
- Technical staff is sponsored to attend various training programmes related to their area.
- Provides hands on training for non-teaching staff to improve their practical skills.
- Introduces new equipment and software in various labs.
- Encourages the faculty to deliver guest lectures at other institutions.
- Sponsors faculty for memberships in professional bodies.
- Facilitates the faculty members to take-up various roles in professional societies.
- Sponsors the staff members for attending conferences, seminars and workshops with financial assistance.

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?

- Faculty is always motivated to upgrade their qualification.
- Faculty is encouraged to attend seminars / Conferences.
- Rewards are given by management for faculty producing 100% results.
- Subsidized canteen and transport facilities are provided for all the staff members.
- Training is imparted to new faculty on teaching methodologies & content delivery by the senior faculty of the organization.
- Faculty is trained on advanced technologies by eminent external faculty from industry and academia through faculty development programmes.

- Faculty is deputed for refresher courses/FDPs/Seminars for professional development.
- Financial incentives are provided to faculty who published research papers in various journals and conferences.
- Best teachers among faculty of the institution are felicitated on Teacher's day.
- Various committees with faculty in various cadres as members are formed with proper allocation of work, assigning responsibility and grant of adequate authority and autonomy.
- Encouragement and support is given to faculty for applying to research and consultancy projects.
- Besides better working environment conducive to teaching learning processes, other benefits like mediclaim policy, PF, gratuity, and incentives for both better performances as well as for acquiring higher educational qualification has made the institution to have higher retention ratio.
- Yearly increments, sanction of DA and revision of pay scale is done at appropriate time for the faculty and staff.
- Promotion based on experience and qualification upgradation is given to faculty.

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.

Performance of the faculty is analysed through self appraisal form in addition to student feed back every year. The performance of the faculty is assessed based on self appraisal form of the faculty containing:

- Student feedback taken from students who are regular to classes to evaluate the teachers' performance for each subject every semester.
- Examination results obtained in the subjects they taught.
- Faculty's inclination towards continuing education by attending FDP/workshops /seminars / conferences etc.,
- Involvement in co-curricular and extracurricular activities.
- Administrative responsibilities taken in the department as well as at institution level.
- Research and consultancy works done by the faculty in the form of publication of research papers/books published, edited, reviewed execution of assignments / projects etc.

The score is computed on an appropriate scale and all these are evaluated. The performance of each faculty is reviewed by the administration and areas of improvement are suggested.

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?

The management provides a self-appraisal form for the staff to be filled by them and duly returned to the principal. Based on the self-appraisal, staff are advised by the principal to improve their performance as the need may be. The review of the performance appraisal reports helps in understanding the strength and weakness of faculty members. The outcome of the review is communicated to the appropriate stake holders through formal & informal 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?

Welfare Schemes for Staff

- Regular employees of the institute are entitled for employee provident fund scheme and related pension scheme.
- ESI scheme is implemented for eligible staff.
- Gratuity scheme is provided in the institution as per rules.
- Group insurance benefit is offered to all the staff of the institution.
- Medical health policy is implemented for staff.
- Incentives, promotion and increments are given.

Leave and Vacation Rules

- Rules for casual leave, earned leave, medical leave, special casual leave, maternity leave and other leaves are as per institutions rules.

All the welfare schemes listed above are utilized by eligible staff of the institution.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The institution provides an academic environment conducive for teaching, pursuing research, participation in curricular, co-curricular, extra-curricular activities aimed to enhance the quality of education, competency of the students and the reputation of the institution.

Systematically conducted appraisal and due recognition for experience and qualification, attractive salary, regular increments and D.A and all the welfare

schemes outlined in section 6.3.5 above help the institute to attract and retain faculty.

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?

Sir C R R College of Engineering has an organized mechanism to monitor the use of financial resources effectively. Accounts section ensures that fund flow of the organization is as per the sanctioned budget and is in right direction:

- Preparation of budget is done by comparing proposals received with the previous years' budget and actual expenditure to ensure optimal allocation.
- Evaluation and sanctioning of the proposed budget by the management.
- Allocation of funds to the respective departments according to the sanctioned budget.
- To monitor the financial status of the organization effective financial measures are taken to outline the viability and check on outstanding bills.
- A regular review of accounts is done by internal auditors.
- Auditing is undertaken by registered charted accountants.
- Books of accounts are maintained according to the accounting standards.

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 institution has both internal and external auditing system since its inception. The institution has qualified practicing chartered accountants as internal auditors who are auditing the accounts of the institution on a daily basis. Internal auditors check each and every transition for conformity for release of funds/ expenditure. Internal auditor prepares all financial statements required for external auditing.

There were no objections raised by external auditor to date as the internal auditing is being carried out by qualified and experienced auditors and the process is highly stringent and transparent.

6.4.3 Major sources of institutional receipts/funding

Tuition fee from the students is the main source of income for the institution. Other sources of income are interest on deposits, rent collected towards hostel accommodation.

Particulars	2015-2016	2014-2015	2013-2014	2012-2013
Income in Rs.				
Tuition Fee	13,31,27,045	15,19,28,975	10,20,35,607	12,01,91,475
Interest on Deposits	19,02,246	7,49,930	3,72,704	6,39,780
Rents (Hostel, Canteen, Book Stores)	34,74,054	64,97,405	72,41,282	67,25,652
Others	82,61,355	84,92,056	2,14,85,259	2,12,71,372
Total Income	14,67,64,700	16,76,68,366	13,11,34,852	14,88,28,279
Expenditure in Rs.				
Academic Expenses	11,00,66,707	9,61,67,378	8,25,48,916	7,22,64,153
Administrative Expenses	4,27,34,743	3,23,97,138	2,98,51,706	2,91,72,779
Total Expenditure	15,28,01,450	12,85,64,516	11,24,00,622	10,14,36,932

6.4.4 The efforts made by the institution in securing additional funding

The institution encourages its faculty to apply for various projects from funding agencies both government and nongovernmental organizations such as AICTE, DST, SIEMENS etc.

Due to the efforts made by the institution, Rs.3,96,82,000 has been obtained from various funding organisations.

S. No.	Title of Proposal	P.I/ CI	Funding Agency	Amount in Rs.	Status
1	Fabrication & Experimental Investigations on Al-Si-Tib2 Nano Composites	Dr. K. VenkateswaraRao	AICTE	20,40,000	Ongoing
2	Assessment of the quality of Drinking water sources in the upland area at West Godavari District, Andhra Pradesh, India.	Dr. R. Harinadha Babu	DST	22 ,00,000	Ongoing

3	Siemens TSDI	Dr. G. Sambasiva Rao	APSSDC	3,00,00,000	Ongoing
4	Upgradation of Strength of Materials Lab	Dr. K. Venkateswara Rao	AICTE	6,00,000	Completed
5	Modernization of AEC/EDC LAB	Mr. M. Ravi Kumar	AICTE	7,50,000	Completed
6	Modernization of BMI LAB	Mr. M. Ravi Kumar	AICTE	5,00000	Completed
7	Modernization of Communications Lab	Mr. M. Srinivasa Rao	AICTE	11,20,000	Completed
8	Modernization of P.I. Lab.	Mr. C S Dattatreya	AICTE	10,00,000	Completed
9	Modernization of Electrical Machines Lab.	Mr. Shyam Mohan S Palli	AICTE	9,00,000	Completed
10	Modernization of Chemistry Lab.	Dr. A. Ramachandra Rao	AICTE	5,72,000	Completed
Total				3,96,82,000	

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? 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's quality is regularly monitored by principal and head of the departments to date. There was no cell in the name of IQAC in the past. The IQAC has been set up in accordance with NAAC requirement recently as it is the mandatory requirement of the NAAC. From now the quality assurance responsibilities will be taken care of by this cell.

1. Chairperson: Head of the institution.
2. A few senior administrative officers.
3. Three to eight teachers.
4. One or two members from the management.
5. One/two nominees from local society.
6. One of the teachers as the coordinator of the IQAC.

S.No.	Name	Committee
1	Dr. G. Sambasiva Rao Principal	Chairman
2	Sri Kommareddy Rambabu President, Sir CRR Educational Institutions.	Management member
3	Sri N.V.K. Durga Rao Secretary, Sir CRR Educational Institutions.	Management member
4	Sri K. Srimannarayana, A.O Sir CRR Educational Institutions.	Member
5	Sri V. Madan Mohan, A.O Sir C R R College of Engineering	Member
6	Sri V. Krishnaji Retired professor	Member
7	Sri P.S.M. Satyanarayana Retired Professor	Member
8	Dr. A.Yesu Babu Professor	Member
9	Dr. R. Harinada Babu Professor	Member
10	Dr. T. VenkateswaraRao Professor	Member
11	Dr. K. VenkateswaraRao Professor	Member
12	Dr. K. Rambabu Professor	Coordinator

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

So far no decisions have been taken by IQAC as it is recently initiated.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, the IQAC has two external members who are eminent educationalists from the society.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The following inputs are used by IQAC for its effective functioning.

- Mid semester feedback, course end surveys and programme end surveys from students.
- Feedback from alumni on existing facilities and requirement of industry.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

Since the institution members are from different departments, they communicate with respective departmental faculty, staff and students and engage as per the requirements.

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 operationalization.

Yes, the necessary integration for quality assurance is done through decentralization and is effectively carried out as per quality policy in line with the suggestions of IQAC. The contribution of IQAC in institutionalizing quality assurance strategies and process are:

- Standardization procedures to organize various activities and standard formats for their quality assessment.
- Inculcating uniform data base management practices in all departments and various divisions.
- Establishment and standardization of various parameters for various academic and administrative activities of the institute.
- Organization of seminars and workshops on quality and related themes
- Adoption and dissemination of best practices and development of quality culture in the institute.
- Uniform student performance evaluation mechanism of the institute.

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.

Yes, the institution organises and deputes faculty to faculty development programmes, seminars, and workshops and encourages faculty to undergo training on internal quality assurance procedures to enable them to perform the audit.

6.5.4 Does the institution undertake Academic Audit or other external review? If 'yes', how are the outcomes used to improve the institutional activities?

Yes, the institute takes up yearly academic audit. Academic audit is conducted on the following parameters:

- Course delivery and attainment of course outcomes.
- Assessment, evaluation and attainment.
- Attainment of programme outcomes.
- Faculty development programmes and their impact on teaching - learning process.
- Training programmes to students.
- Co-curricular/extra-curricular activities.

The outcome of audit is well received to improve the quality of the system.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of their relevant external quality assurance agencies/regulatory authorities?

The quality parameters evaluated by the various regulatory bodies such as NBA, AICTE and UGC are directed to enhance the quality in various criteria such as teaching-learning processes, development of infrastructure facilities, student's progression, enhancing research and development activities etc. The IQAC policies and objectives of the institution are so framed that they are in tune with the standards set by such agencies.

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?

The following points are considered for formulating the policies on teaching learning process:

- Feedback on all the subjects is taken from the students in every semester.
- Feedback is analysed and evaluated on the scale of 100 and every teacher is provided with a copy of feedback for making necessary corrections. Further, teachers are counselled by the head of the department, principal if required.
- The administration also takes general feedback by interacting with a select group of students from each class.
- Monitoring is also done through class work review committees to assess the uniformity in syllabus coverage, and also the quality of teaching.

- Syllabus prescribed by Andhra University, Visakhapatnam is followed.
- Extra content shall be given on the skills in demand for employment.
- Number of instructional days, contact hours per week are followed as specified by Andhra University, Visakhapatnam.
- Additional teaching hours for the extra content shall be arranged after usual contact hours.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Institution communicates its quality assurance policies, mechanisms and outcomes to internal stakeholders (students, staff) through meetings, circulars and notice boards and to external stakeholders (parents, alumni, industries) through mail, institution websites, brochures, calendar, magazines etc., and also by means of conducting meetings with parents, alumni and industries.

CRITERION VII

INNOVATIONS AND BEST PRACTICES

CRITERION VII
INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

The institute is situated 5 km away from the hustle and bustle of the nearest town. The campus has lush green expanse, paved pathways, colorful plants, breeze and a serene, peaceful environment. Environment awareness among students and staff is created by making them actively participate in planting and maintaining clean and green environment. Special drives are arranged by the institute for maintaining the campus in an eco-friendly and energy conservative environment.

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

No separate Green Audit is conducted by the institute. However, the institution is conscious of its responsibilities towards environment and following measures are carried out in connection with Green Audit.

Energy Conservation
All the equipment in the labs are serviced periodically to reduce excessive consumption of power. Class room power consumption is monitored. Eco-friendly Cummins and Kirloskar generators have been set up in the campus to minimize atmospheric pollution.

Use of renewable energy
The college management is examining the proposal of utilizing solar power, a non-conventional source of energy, in a phased manner as an alternate source of power. Solar heaters are in use in the hostels.

Water harvesting
The college has three 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 emission of carbon dioxide in the campus. Motor vehicles are kept at a distance from the

classrooms and laboratories in the ear marked parking sheds. Bicycling is encouraged in the campus to reduce pollution. Dead leaves of the plants and 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 plants.

Plantation

There is abundant greenery in the campus which provides a green canopy at various places of the campus and lawns are maintained at various locations in the campus.

E-waste management

Some of the e-waste generated is used for the purpose of technical education by making use as hardware in laboratories for display and study. The remaining material is disposed off in an appropriate manner.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

***Energy conservation**

- Use of transparent glass windows provides natural light.
- Incandescent bulbs are replaced with high efficient LED bulbs.
- Standard star-rated air conditioners with less energy consumption are installed in the campus.

***Use of renewable energy**

- Solar heaters are installed for minimizing the use of electrical power in the hostels.
- Effective waste management through segregation, collection and disposal is practiced.
- The institution plans the use of solar power in the college.

*** Water harvesting**

All the buildings are provided with rain water harvesting facility to help in maintaining and improving the water table.

***Efforts for Carbon neutrality**

- Dry leaves and waste papers are not burnt but are buried in the soil and used as organic manure.
- The institute restricted the use of plastic bags in the campus.

***Plantation**

50% of the total open area is covered with trees and lawns. Plantation programme has been taken up by the NSS unit for increasing the green cover in the campus and outside the campus.

***Hazardous waste management:**

- Waste separation at sources.
- Separated solid wastes are dumped at designated locations.

***E-waste management:**

E-waste management has been given due focus and all electronic goods are put to optimum use. Obsolete computers and other wastes generated from the electronic equipment are auctioned to authorized e-waste dealers. The waste compact discs are used by students for decoration and participation in competitions in various events held in the institution such as TECHFEST.

Fire Safety

The institution provides all the required fire safety measures and fire prevention procedures. The institution maintains fire safety systems in condition.

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.

A number of innovative steps have been adopted to achieve the vision of the institute and make it a Centre of Excellence. Any new idea, practice or

technique proposed by the stakeholders is always appreciated, encouraged and implemented, if it is feasible.

a. Innovations in Academics

1. Introduced Outcome Based Assessment and Evaluation.
2. Use of NPTEL video lectures and open courseware of world class universities.
3. Subscribed e-journals, magazines and e-books.
4. Use of college website for assignments and course material to students.
5. MOOCS with credits are made mandatory in all B.E. courses from academic year 2015-16.
6. Incentives to the faculty members involved in research and consultancy services.
7. Use of multimedia for content delivery by faculty.

b. IT enabled teaching and learning services

1. Internet connectivity with Wi-Fi is enhanced to 120 Mbps.
2. NPTEL video courses and MIT open courseware are available through digital library
3. Classrooms are provided with LCD projectors
4. Automation of library indigenous software has been done.

c. Student development system

1. Students are provided with faculty advisors who guide them and counsel them. Thus each faculty member acts as a mentor for around 20 students.
2. Career counseling is provided by Training and Placement Cell to guide the students in their endeavors.
3. Incentives are given to the students standing first and second in their section of class in order to generate competitive spirit among the students to excel in academics.

7.3 Best Practices

The college follows quite a number of healthy practices, out of which two of them, “Improving Employability of Students through Skill Development” and

"Student Mentoring System" deserve special mention. The institution lays special emphasis on implementing these practices. These innovations mentioned have contributed, in a large measure, to the achievement of the institutional objectives as well as improvement in the quality of different activities of the college.

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practice – 1

1. Title of the Practice - Improving Employability of Students through Skill Development.

2. Goal

With the advent of globalization, the following skills have become essential to students pursuing technical education.

- Technical competence.
- Interpersonal skills.
- Employability skills.

Sir C R Reddy College of Engineering strives to provide the above skills through its extensive programmes.

3. The Context

Students joining the college usually come from different backgrounds and need training to improve their technical as well as employability skills. Technical competence can be improved by stressing on fundamentals of core engineering subjects, communication skills are improved through spoken and written English language classes, and employability skills are enhanced by identifying industry requirement and providing additional training for it. Considering these requirements, college is providing excellent facilities for the students to improve their skills and to achieve their career goals.

4. The Practice

To realize aspirations of students, the college has implemented the following.

- To build problem solving capability, the college stresses on

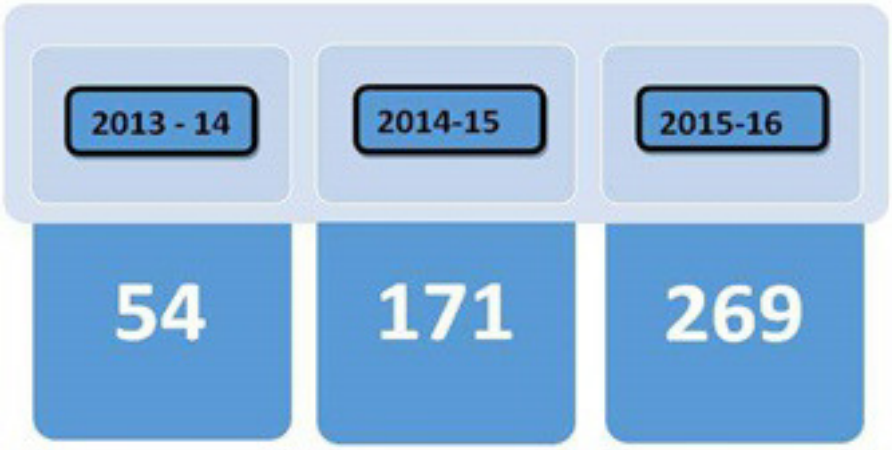
fundamentals of engineering and analytical thinking. It also continuously incorporates add-on topics on latest developments in industry to improve technical competence.

- Soft skill training is a part of regular class work right from II year and is taken up rigorously by the college Training and Placement Cell to improve interpersonal skills. An exclusive campus connect CRT programme by FACE is conducted for final year engineering students.
- To expose students to industry culture and practices, the college arranges industrial visits regularly. Industrial training is mandatory for all students.
- To provide hands-on training to students in contemporary industry tools and techniques, the college provides extensive training on various academic/industrial software and tools like PLC, CATIA, HYPER MESH, ANSYS, PRO-E, STAAD PRO, MATLAB, PSCAD,ETAP, ANDROID, APP DEVELOPMENT, RATIONAL ROSE etc. to improve employability skills.
- College also provides skill development programmes from APSSDC, Siemens 't-SDI' and also conducts technology entrepreneurship programme from ISB, Hyderabad.

5. Evidence of Success

The following table shows improvement in placements depicting evidence of success due to the above best practice.

Campus Placements



In general, our students are from rural background and lack good communication skills even though they are technically strong. However, with the help of this best practice. they have been able to overcome some of the difficulties and are able to secure placements as evidenced above.

6. Problems encountered and resources required

As majority of the students are from the rural areas with different socio-economic backgrounds, tailoring developmental programmes to meet the needs of these students is a challenge. To this end, Personality Development Programmes and motivational lectures are organized to build confidence in the students. Highly dedicated and experienced faculty members are required to motivate students and such faculty members are rare. To overcome this, the college has been utilizing the services of the best among the experienced faculty available in-house regularly in addition to qualified trainers from outside.

7. Notes (Optional)

Nil

8. Contact Details

Principal: **Dr. G. SAMBASIVA RAO**
Sir C R Reddy College of Engineering
City: Eluru
Pin code: 534 007
Phone: 08812 230840, Fax: 08812 – 224193
Website: http://www.sircrrengg.ac.in
E-mail: principal.sircrrengg@gmail.com

Best Practice-2

1. Title of the Practice - Student Mentoring System

2. Goal

To minimize irregularity in attendance, reduce backlog subjects and avoid dropouts through paying attention towards each student, proper counseling, stress management, guidance in academic difficulties and career plans, and overall development.

3. The Context

Many students are from disadvantaged sections of the society and this results in irregular attendance and less concentration on studies due to personal issues. This results in poor attendance and backlog subjects which lead to increase in the number of dropouts.

It is evident from the analysis of student entry characteristics that over 60% of the students fall under fee reimbursement category with 30% students joining through management quota and only 10% of the students pay college fee from parents' income. This indicates that 60% of students who cannot afford to study the course unless government supports them through fee reimbursement. In addition, most of the students are from rural background, lacking required communication skills. Their inhibitions, poverty and brought up make them fear studies and force them to lag behind in their academics which result in poor attendance and number of backlog subjects.

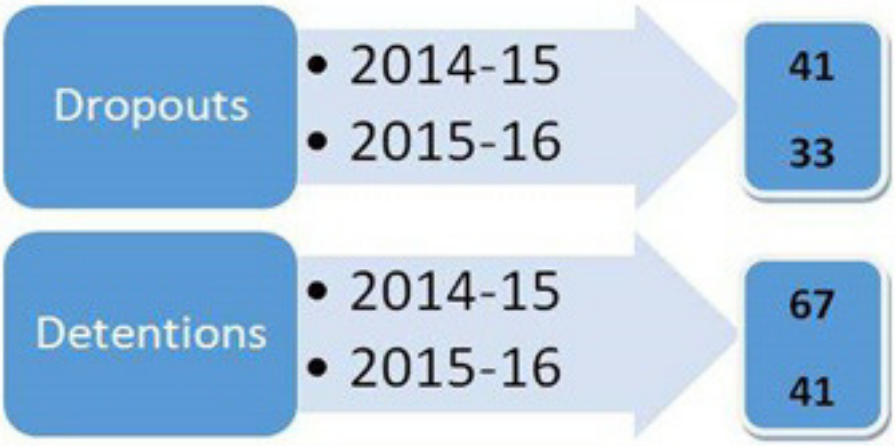
The highly competitive and complicated job market requires not only mastering the course content but also good communication skills and interpersonal skills. It has become imperative that a mentoring system is in place for the students to overcome stress, personal, domestic and academic difficulties.

4. The Process

The practice creates an efficient mentoring system. Each teacher is assigned 20 students for mentoring. It is the responsibility of the faculty to observe and mentor the students in all aspects. Mentors meet the students at least once in a week to discuss various problems encountered by the students related to understanding the subjects, attendance, marks, and stress related to personal, domestic, academic, etc. The mentor collects and records all the necessary information about his/her wards. He looks after all aspects and issues of the students in the campus and guides the students to overcome difficulties. The mentor also involves parents or local guardians whenever necessary. This minimizes irregularities and makes the parents aware of the students' progress in the campus regarding attendance, marks, etc. This leads to better discipline on campus, motivates students to actively participate in curricular and co-curricular activities and results in better performance of students.

5. Evidence of Success

Evidence of success of the practice includes better results in the examinations, increased attendance, increased participation in co- curricular activities, better discipline on campus and a warm and respectful relationship between teachers and students.



6. Problems encountered and resources required

This practice requires dedicated faculty members that are able to carry out mentoring patiently in a friendly and non-coercive environment for the benefit of the students. To this extent, the college trains and motivates faculty members so that they can cope with the needs of the students. Faculty members find satisfaction in guiding the students in the right direction and thereby gain respect from them.

7. Notes (Optional)

Nil

8. Contact Person

Principal: **Dr. G. SAMBASIVA RAO**
Sir C R Reddy College of Engineering
City: Eluru
Pincode: 534 007
Phone: 08812 230840, Fax: 08812 – 224193
Website: http://www.sircrrengg.ac.in
E-mail: principal.sircrrengg@gmail.com

PART-III

EVALUATION REPORTS OF THE DEPARTMENTS

EVALUATION REPORT OF THE MECHANICAL DEPARTMENT

1. **Name of the department :** Mechanical Engineering
2. **Year of Establishment :** 1989
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
   - UG- B.Tech. (Mechanical Engineering)
   - PG- M.Tech. (Machine Design)
4. **Name of Interdisciplinary courses & the departments/units involved :**

S.No.	Department involved	Year/ Semester	Name of Interdisciplinary course	Programme
1	FED	II / I	Mathematics-IV	B.Tech.
2	ECE	II / I	Industrial Electronics	
3	FED	II / II	Environmental Science	
4	EEE	II / II	Electrical Technology	
5	ECE	IV / II	Instrumentation & Control Systems	
6	ECE	I / II	Signal Analysis & Condition Monitoring	M.Tech.

5. **Annual/ semester/ choice based credit system (programme wise) :**
   Semester system :
   - B.Tech. - Choice Based Credit System
   - M.Tech. - Choice Based Credit System
6. **Participation of the department in the courses offered by other departments :**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	Engineering Graphics	I/I, I/II	FED
2		EM & SM	I/I, I/II	FED
3				
4		Thermal Prime Movers	II/I	EEE
5		FM & HM	II/I	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 :**

Name of the Post	Sanctioned	Filled
Professors	3	6*
Associate Professors	6	2
Assistant Professors	18	20
Total	**27**	**28**

*Including Principal

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):**

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for last 4 years
1	Dr. G. Samba Siva Rao	Ph.D.	Professor & Principal	Heat Transfer	31	02
2	Dr. K. Venkateswara Rao	Ph.D.	Professor& HOD	Industrial Metallurgy	30	--
3	Dr.K.Rambabu	Ph.D.	Professor	Thermal Engineering	21	--
4	Dr.J.Sudhir Kumar	Ph.D.	Professor	Tool Design	26	--
5	Dr.K.Lalit Narayan	Ph.D.	Professor	Production Engineering	23	--
6	Dr.M.Sri Rama Murthy	Ph.D.	Professor	Thermal Engineering	27	--
7	Mr. M.Ramji	M.Tech.	Associate Professor	Heat Power	38	--
8	Mr. P.S.B. Chowdary	M.Tech.	Associate Professor	Thermal Engineering	30	--
9	Mr. D.Satyanarayana	M.Tech.	Sr. Assistant Professor	Heat Power	21	--
10	Mr. K.SunilRatna Kumar	M.Tech.	Assistant Professor	Machine Design	13	--

11	Mr. T.Rama Krishna	M.Tech.	Assistant Professor	CAD/CAM	10	--
12	Mr. E.Venkateswara Rao	M.Tech.	Assistant Professor	Industrial Metallurgy	10	--
13	Mr. K.V.P.P. Chandu	M.Tech.	Assistant Professor	Design for Manufacturing	8	--
14	Mr. Ch.Rama Krishna	M.Tech.	Assistant Professor	CAD/CAM	7	--
15	Mr. B.V.Subrahamanyam	M.Tech.	Assistant Professor	CIM	5	--
16	Mr. S.V.Gopala Krishna	M.Tech.	Assistant Professor	CIM	5	--
17	Mrs. Ch. L.Poornima	M.Tech.	Assistant Professor	CAD/CAM	7	--
18	Mr. L.N.V.Narasimha Rao	M.E.	Assistant Professor	Machine Design	5	--
19	Mr. Ch.Chandra Rao	M.E.	Assistant Professor	Machine Design	4	--
20	Mr. A.Srinavasa Rao	M.Tech.	Assistant Professor	CIM	5	--
21	Mr. K.Yasoda Sreeram	M.Tech.	Assistant Professor	IEM	2	--
22	Mr. E.Srinivas	M.Tech.	Assistant Professor	CAD/CAM	2	--
23	Mr. K.Anjaneyulu	M.Tech.	Assistant Professor	CIM	2	--
24	Mrs.M.N.V. Alekhya	M.Tech.	Assistant Professor	CAD/CAM	4	--
25	Mr. P.S.Amarnadh	M.Tech.	Assistant Professor	CAD/CAM	2	--
26	Mr. A.S.Ganapathi	M.E.	Assistant Professor	Machine Design	1	--
27	Ms.Ch. Rajeswari	M.E.	Assistant Professor	Machine Design	1	--
28	Ms. K.V. Kalyani	M.E.	Assistant Professor	Machine Design	1	--

11. **List of senior visiting faculty :**

S.No.	Name	Designation	Industry/ Institution Address
1	Dr.P.Ravi Kumar	Professor	NIT, Warangal
2	Dr.K.V.SaiSrinadh	Professor	
3	Dr.A.Venu Gopal	Professor	
4	Dr.R.Narasimha Rao	Professor	
5	Dr.A.Rama Krishna	Professor	AU College of Engineering, Visakhapatnam
6	Dr.K.Ramji	Professor	
7	Dr.N.B.Rama Mohan Rao	Professor	
8	Dr.M.M.M.Sarcar	Professor	Vice Chancellor, JNTU Anantapur
9	Sri K.K.K.Sanyasi Raju	Scientist`F'	NSTL,Vizag
10	Sri T.V.K. Raju Bharatam	Vice President	Reliance Industries Ltd
11	Dr.V.Bala Krishna Murthy	Professor	V.R.Siddardha Engineering College, Vijayawada
12	Dr.N.Vijay Sai	Professor	
13	Dr.Nara Ravi Kumar	Professor	

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** Nil

13. **Student -Teacher Ratio (programme wise) :**

Programme	Students	Existing Faculty	Ratio
UG	360	24	15:1
PG	36	3	12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
13	13	05	05

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:**

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	06	00	00	06
M.E./M.Tech.	--	02	20	22
B.E./B.Tech.	--	--	--	--

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :**
    - National - 02

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :**

Name of the Faculty	Title of the Project	Funding Agency	Sanctioned Amount (Rs.)	Status
Dr. G.Samba Siva Rao	Mechanical Analysis of INS of Space Vehicle	DRDO	5,30,000	Ongoing
Dr.K.Venkateswara Rao	RPS-Fabrication & Experimental investigations on Al-Si-Tib2 Nano Composites	AICTE	20,40,000	Ongoing
Dr. G.Samba Siva Rao	Thermo-elastic Properties of FRP Composites'	AICTE	5,50,000	Completed
Dr. G.Samba Siva Rao	Delamination damage of FRP composites	DRDO	9,92,000	Completed
Dr.K.Venkateswara Rao	MODROBS-Upgradation of Strength of Materials Lab	AICTE	6,00,000	Completed

18. **Research Centre/ facility recognized by the University :**
    - Applied to Andhra University

19. **Publications:**
    - Number of publications per faculty : 4.71
    - Number of publications in peer reviewed journals (National /International) by faculty and students : 132

S.No.	Name of the Faculty	No. of National Journals	No. of International Journals	Total
1	Dr.G.Sambasiva Rao	--	20	20
2	Dr.K.Venkateswara Rao	--	11	11
3	Dr.K.Rambabu	--	8	8
4	Dr.J.Sudhir Kumar	1	2	3
5	Dr.K.Lalit Narayan	--	7	7
6	Dr.M.Sri Rama Murthy	--	9	9
7	Mr. M.Ramji	--	2	2
8	Mr. P.S.B.Choudary	--	3	3

9	Mr. D.Satya Narayana	--	1	1
10	Mr. K.SunilRatna Kumar	--	5	5
11	Mr. K.V.P.P.Chandu	--	8	8
12	Mr. E.Venkateswara Rao	--	5	5
13	Mr. Ch.Rama Krishna	--	7	7
14	Mr. T.Rama Krishna	--	4	4
15	Mr. Ch.Chandra Rao	--	5	5
16	Mr. A.Srinivasa Rao	--	4	4
17	Mr. S.V.Gopala Krishna	--	8	8
18	Mr. L.N.V.Narasimha Rao	--	4	4
19	Mrs. Ch.L.Poornima	--	5	5
20	Mr. B.V.Subrahmanyam	--	8	8
21	Mr. E.Srinivas	--	1	1
22	Mr. K.Yasoda Sriram	--	1	1
23	Mr. A.S.Ganapathi	--	1	1
24	Ms. Ch.Rajeswari	--	1	1
25	Ms. K.V.Kalayani	--	1	1
Total		**01**	**131**	**132**

- 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.) : 74
- Monographs : Nil
- Chapters in Books : 01

S.No.	Name of the Faculty	Name of the Book	ISBN / ISSN	Publisher
1	Dr.G. Sambasiva Rao	Bio Mass & Bio Energy, Chapter-8	978-3-319 - 07640 -9	Springer

- Books Edited **:**Nil
- Books with ISBN numbers with details of publishers **:** 02

S.No.	Name of the Faculty	Name of the Book	ISBN	Publisher
1	Dr.K.Lalit Narayan	Computer Aided Design and Manufacturing	978- 81-203-3342-0	PHI Learning
2	Dr. J Sudhir Kumar	Plastic waste-fuel " Municipal solid waste management"	9783656891369	e-Book

- Citation Index : Min:4.8 Max:12

- SNIP : Min: 0 Max:0.98
- SJR : Nil
- Impact Factor : Min:0.23 Max:6.39
- h-index : Nil

20. **Areas of consultancy & income generated :**

S.No.	Name of the Consultancy	Year	Amount (Rs.)
1	Mechatronics Lab tables, Grills for EIE Block	2011-12	36,942
2	Grills on drainage, windows and meshing (MCA/MBA)	2012-13	80,167
3	Boys hostel cots and tables	2013-14	1,30,720
4	Iron cots in gym	2014-15	27,815
Total			**2,75,644**

21. **Faculty as members in :**

- National committees : Nil
- International committees **:** Nil
- Editorial boards :

S.No.	Name of the Faculty	Description
1	Dr.K.Rambabu	Reviewer for Elsiever Publications
2	Dr.K.Lalit Narayan	Reviewer in JTASR

22. **Student Projects :**

Academic Year	Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG	88	12
	PG	100	0
2014-15	UG	92	8
	PG	90	10
2013-14	UG	100	0
	PG	100	0

23. **Awards/ recognitions received by faculty and students :**

S.No.	Name of the Faculty / Student	Award	Year
1	Dr. K.Lalit Narayan	Senior Editor in JTASR	2015

2	Dr. J.Sudhir Kumar	Secretary in Regional IE students chapter	2015
3	Ms. T.Madhuri	Gold Medal for Academic topper	2014
4	Mr. Kunkulla Satish	Gold Medal for Academic topper	2013

24. List of eminent academicians and scientists / Visitors to the department :

S.No.	Name	Designation	Industry/Institution Address
1	Dr.K.V.Sai Srinadh	Professor	NIT, Warangal
2	Dr.Venu Gopal	Professor	NIT, Warangal
3	Dr.R.Narasimha Rao	Professor	NIT, Warangal
4	Dr.D.Nageswara Rao	Professor	Vice Chancellor, Centurion University, Odisha
5	Dr.M.M.Sarcar	Professor	Vice Chancellor, JNTU Anantapur
6	Dr.K.Ramji	Professor	AU College of Engineering, Visakhapatnam
7	Dr.N.Bhargava Rama Mohan Rao	Professor	AU College of Engineering, Visakhapatnam
8	Sri H.Ramalinga Murthy	Member	National Accreditation Board for Educational & Training, New Delhi
9	Sri T.V.K.Raju Bharatam	Manager	Reliance Industries limited, Jamnagar, Gujarat
10	Sri K.K.K.Sanyasi Raju	Scientist`F'	N.S.T.L,Vizag

25. Seminars/ conferences/ workshops organized & the source of funding :

S.No.	Type	Academic Year	Date	Name of the Seminars /conferences/ workshops	Sources of Funds
1		2015-16	24th Feb 2016	Seminar on Inter laminar Fracture Analysis of FRP Laminates	Institution
2			6th Feb 2016	Seminar on Non Destructive Testing of Casting, Forgings, and weldments	Institution
3		2014-15	19th March	Seminar on Environmental	Institution

	National		2015	impact Assessment (EIA) of projects	
4			27th March 2015	Seminar on Chemical process industry-core functions/ Role of Engineers	Institution
5			9th April 2015	Two day workshop on FEA	Institution
6		2013-14	25th March 2013	Guest Lecture on "Advances in Cutting tool Materials"	Institution
7			22nd March 2013	Guest Lecture on Finite Element Analysis of Composite Beams	Institution
8			24th Jan 2014	National Conference on Research issues and Recent Trends in Mechanical Engineering (NCRRME)	Institution
9			6th Feb 2014	One day workshop on recent trends in Mechanical Engineering	Institution
10		2012-13	7th Jan 2012	Guest Lecture on Fatigue properties of Titanium Alloys	Institution
11			4th Feb 2012	Guest Lecture on Energy Systems	Institution
12			18th Feb 2012	Guest Lecture on Employability of a student	Institution
13		2011-12	19th Feb 2012	Guest Lecture on Composite materials	Institution
14			19th Feb 2011	Guest Lecture on Mechatronics	Institution

26. **Student profile programme/ course wise :**

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	128	100	28	64.56

	2014-15	--	65	51	14	81.25
	2013-14	--	72	58	14	57.97
	2012-13	--	61	44	17	59.01
M.Tech.	2015-16	--	13	7	6	84.61
	2014-15	--	11	8	3	61.53
	2013-14	--	8	8	0	100.00
	2012-13	--	13	13	0	100.00

27. **Diversity of Students :**

Name of the course	Academic Year	% of Students from same state	% of Students from other state	% of the students from abroad
B.Tech.	2015-16	99.51	0.49	0
	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0
M.Tech.	2015-16	100	0	0
	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence service etc., :**

Examination	2015-16	2014-15	2013-14	2012-13
GATE	11	04	08	06
GRE	06	06	08	05
IELTS	06	06	08	05
others	--	--	--	--

29. **Student Progression :**

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
UG to PG	7.03	4.61	8.33	8.19
PG to Ph.D.	--	--	--	--
Campus	14.84	20.00	5.55	8.19
Other than Campus	14.06	18.46	15.27	24.59
Entrepreneurship/ Self-employment	--	--	--	--

30. Details of Infrastructural facilities :

a) Library

- Name : Mechanical Engineering Department library
- Area : 45.15 sq.mts.
- No. of Volumes: 1109
- No. of Titles: 220

b) Internet facilities for Staff & Students

- Provided with 120 Mbps Internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility

- 01 - Lecture Hall 19
- In addition to that, Projector, laptop & OHP are available in the department.

d) Laboratories

S.No.	Name of the Laboratory	Area (sq.mts.)	Investment(Rs.)
1	Basic workshop-1	281	1,32,532
2	Basic workshop-2	168	52,681
3	Machine Shop	295	15,84,831
4	FM & HM Lab	201	6,03,398
5	Fuels & Models Lab	82	3,20,832
6	Heat Engines Lab	239	9,26,826
7	Heat & Mass Transfer Lab	150	4,21,269
8	Industrial Engineering Lab	150	1,59,599
9	Metrology & Mechatronics Lab	82	4,95,488
10	Strength of Materials Lab	150	9,20,951
11	CAD / CAM Lab	103	20,71,834
12	Research Centre	103	26,40,000
13	Stress Analysis Lab	103	5,24,205
14	CAD Lab	82	5,00,000
15	Mechanical Vibrations Lab	82	7,00,000
Total			**1,20,54,446**

31. **Number of students receiving financial assistance from college, university, government or other agencies :**

Agency	No. of Students received Financial assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	312	274	227	181

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts :**

S.No.	Name of the Expert	Date	Topic
1	Sri.H.RamalingaMurty	19th March 2015	Environmental Impact Assessment (EIA) of Projects
2	Sri T.V.K. Raju Bharatam	27th March 2015	Chemical Process Industry - Core Functions/Roles Of Engineers
3	Sri P. Mohan Mallikarjun	26th Feb 2013	ERP packages on SAP
	Dr. A. Venu Gopal	25th March 2013	Guest lecture on "Advances in Cutting Tool Materials"
4	Dr.V.Balakrishna Murthy	10th July 2013	Advances in Composite Materials
5	Sri T.V.K.Raju Bharatam	18th Feb 2012	Guest Lecture on "Employability of a student"
6	Sri K.Rajini	13th Aug 2012	Career guidance and social responsibility
7	Mrs Ch.Aruna Kumari	5th Sep 2012	Personality development
8	Sri S.P. Ramesh	3rd Sep 2012	Guest lecture on "Petroleum products multi production pipelines"
9	Dr. D. Subba Rao, Governor, RBI	10th Feb 2011	Invited Talk on Reserve Bank Policies

33. **Teaching methods adopted to improve student learning :**

- Conducting Tutorial classes for the subjects prescribed in the syllabus.
- Guiding the students to do innovative projects for practical applications.
- Enhancing knowledge of students by allowing them to attend NPTEL lectures.
- Providing practical exposure to students by conducting various workshops.
- Assignments are given to students frequently to make use of the library, text book reading and self learning.

- Motivating the students to participate in classroom seminars, group discussions, technical quizzes and mock interviews.
- Training the students on topics beyond syllabus.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

- Contribution of one day salary of the staff to government of Andhra Pradesh relief fund during Hudhud cyclone.
- Mechanical Engineering students formed as an association named SUMMITE to help themselves in the following aspects:
  - Communication skills.
  - Leadership qualities.
  - Conducting national level student symposiums and workshops.
  - Personality development and group discussions.

35. SWOC analysis of the department and Future plans :

STRENGTHS:

- Applied for Research Center to Andhra University, Visakhapatnam.
- Well qualified and experienced faculty with average experience of more than 10 years.
- Good infra structure and Lab facilities.
- Strong Department library to cater the needs of students.

WEAKNESSES:

- Limited consultancy activities.
- Limitations of upgrading the curriculum for industry.

OPPORTUNITIES:

- Research and Development activities for faculty and students.
- Requirement for skilled people in Mechanical industries and CAD/CAM technologies.

CHALLENGES:

- To compete with national and international institutes and university colleges.
- Upgrading faculty and students to ever changing technologies.
- Quality of students at entry level.

FUTURE PLANS:

- Full-fledged Under Graduate Research Centre with both theoretical and experimental wings.
- Expansion of Infra Structure.
- Making online lectures available to the students.

PHOTO GALLERY

Environmental Impact Assessment (EIA) of projects

Chemical Process Industry-Core Functions/Roles of Engineers

Non Destructive Testing on Castings, Forgings and Weldments

Inter Laminar Fracture Analysis of FRP Laminates

SUMMITE

Engineer's Day Celebrations

Hypermesh Training Session

Inauguration of Research Centre by Dr.G.S.N.Raju, VC, Andhra University

EVALUATION REPORT OF THE CSE DEPARTMENT

1. **Name of the department :** Computer Science and Engineering
2. **Year of Establishment :** 1989
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
    - UG - B.Tech. (Computer Science and Engineering)
    - PG - M.Tech. (Computer Science and Technology)
    - PG – MCA
4. **Name of Interdisciplinary courses & the departments/units involved :**

S.No.	Department Involved	Year/ Semester	Name of Interdisciplinary course	Programme
1	ECE	II/I	Elements of Electronics Engineering	B.Tech.
2	EEE	II/I	Elements of Electrical Engineering	
3	FED	II/II	Operations Research	
4	FED	II/II	Environmental Studies	
6	MBA	IV/I	Principles of Economics and Management	
7	MBA	I/III	Management Accountancy	MCA
8	MBA	I/III	Information Systems and organizational Behavior	
9	FED	I/III	Probability Statistics and Queuing Theory	
10	FED	I/III	Operations Research	

5. **Annual/ semester/ choice based credit system (programme wise) :**

    Semester System :
    - B.Tech. – Choice Based Credit System
    - M.Tech. – Choice Based Credit System
    - MCA – Choice Based Credit System
6. **Participation of the department in the courses offered by other departments :**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	C-Programming & Numerical Methods	I/ I	FED
2		Computer Architecture & Organization	III/I	EEE
3		Data Structures	III/II	ECE
4	PG	E-Businesses	I/II	MBA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc., :**
   - An MOU agreement with APSSDC and NASSCOM to deliver cyber security, data analytics courses to CSE Students in the year 2015.
   - Organizing TEP, collaborating with Indian School of Business, Hyderabad.
   - Live projects by final year students with technical support from APSSDC over the past two years.
8. **Details of courses/programmes discontinued (if any) with reasons :** Nil

9. **Number of Teaching posts :**

Name of the Post	Sanctioned	Filled
Professors	4	1
Associate Professors	8	4
Assistant Professors	36	43
Total	**48**	**48**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. Of. Ph.D. Students guided for the last 4 years
1	Dr. A Yesubabu	Ph.D.	Professor & HOD	CSSE	26	8
2	Mr. K. Anil Chowdary	M.Tech.	Associate Professor	CSE	13	--
3	Mr. P. Ratna Kumar	M.Tech.	Associate Professor	CSE	14	--
4	Mr.	M.Tech.	Associate	CSE	15	--

	J.S.V.Gopala Krishna		Professor			
5	Dr. M. Krishna	Ph.D.	Associate Professor	CSSE	12	--
6	Mr. S.M.B. Chowdary	M.Tech.	Sr Asst. Professor	CSE	11	--
7	Mrs. G. Nirmala	M.Tech.	Sr Asst. Prof.	CSE	12	--
8	Mr. K. Srinu	M.Tech.	Sr Asst. Professor	CSE	9	--
9	Mrs. K. N. Madhavi Latha	M.Tech.	Assistant Professor	CSE	11	--
10	Mrs. K. Chaitanya Deepthi	M.Tech.	Assistant Professor	CSE	7	--
11	Mr. N. Deepak	M.Tech.	Assistant Professor	CSE	7	--
12	Mrs. Y. Leela Sandhya Rani	M.Tech.	Assistant Professor	CSE	7	--
13	Mr. K. Varada Rajkumar	M.Tech.	Assistant Professor	CSE	7	--
14	Mr. M. Ganesh Babu	M.Tech.	Assistant Professor	CSE	7	--
15	Mr. G. Satyanarayana	M.Tech.	Assistant Professor	CSE	7	--
16	Mr. B. H. Benny	M.Tech.	Assistant Professor	CSE	7	--
17	Mrs. Ch. Ramadevi	M.Tech.	Assistant Professor	CSSE	5	--
18	Mr. S. K. Chaitanya R	M.Tech.	Assistant Professor	CSSE	5	--
19	Mr. Samparthi. V. S. Kumar	M.Tech.	Assistant Professor	CSE	4	--
20	Mrs. P. Naga Deepthi	M.Tech.	Assistant Professor	CSE	4	--
21	Ms. N. Anusha	M.Tech.	Assistant Professor	CSE	4	--
22	Mr. M. Madhava Rao	M.Tech.	Assistant Professor	CSE	6	--
23	Mr. V. Shariff	M.Tech.	Assistant Professor	CSE	4	--
24	Ms. D. V. V. Deepthi	M.Tech.	Assistant Professor	CSSE	4	--
25	Mr. V. Pranav	M.Tech.	Assistant	CSE	3	--

			Professor			
26	Ms. K. Swathi	M.Tech.	Assistant Professor	CSE	1	--
27	Mr. S. Jaya Prakash	M.Tech.	Assistant Professor	CSE	1	--
28	Mr. Ch. Srinivas	M.Tech.	Assistant Professor	CSSE	4	--
29	Mrs. B.S.B.P. Rani	M.Tech.	Assistant Professor	CSE	1	--
30	Mr.G.Hanuman Narendra	M.Tech.	Assistant Professor	CSE	1	--
31	Mr. K.Uday Kumar	M.Tech.	Assistant Professor	CSE	1	--
32	Ms. P. Prasanna	M.Tech.	Assistant Professor	CSE	1	--
33	Mrs. Sk. Asrafunnisha	M.Tech.	Assistant Professor	CSE	1	--
34	Mr. N. Phaneeswar	M.Tech.	Assistant Professor	CSE	1	--
35	Ms. Mirza Arshi	M.Tech.	Assistant Professor	CSE	1	--
36	Mr. K.Ramesh Babu	M.Tech.	Assistant Professor	CSE	1	--
37	Mr. K. Koteswara Chari	M.Tech.	Assistant Professor	CSE	1	--
38	Mr. M.Papa Rao	B.Tech.	Assistant Professor	CSE	1	--
39	Ms. C.Sushma	B.Tech.	Assistant Professor	CSE	1	--
40	Mr. G.Pranith	B.Tech.	Assistant Professor	CSE	1	--
41	Mr. Abdul Wasim	B.Tech.	Assistant Professor	CSE	1	--
42	Mr. C.Santhosh	B.Tech.	Assistant Professor	CSE	1	--
43	Mr. K.B.V.Prasad	MCA	Assistant Professor	MCA	6	--
44	Mr. M.Sathi Ekambareesh	MCA	Assistant Professor	MCA	4	--
45	Mr. C. Venkata Rajesh	MCA	Assistant Professor	MCA	2	--
46	Mr.A.Yesu Babu	MCA	Assistant Professor	MCA	4	--

47	Ms. G.Srikanth	MCA	Assistant Professor	MCA	5	--
48	Mr. M. Naga Siva Kumar	MCA	Assistant Professor	MCA	4	--

11. **List of senior visiting faculty :**

S.No.	Name	Designation	Institution/ Industry Address
1	Dr. P. Srinivasa Rao	Professor, Dept. of CS & SE	AU College of Engineering, Visakhapatnam
2	Dr. P.V.G.D. Prasada Reddy	Professor & Head, Department of CSE	
3	Dr. P S Avadhani	Professor, Dept. of CS & SE	
4	Dr.K.Subrahmanyam	Professor, Dept. of CSE	KLU, Vijayawada
5	Dr. K.V. Ramana	Professor, Dept. of CSE	JNTUK, Kakinada

Dr. P.V.G.D. Prasada Reddy, AUCE(A) Visakhapatnam

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** Nil

13. **Student -Teacher Ratio (programme wise) :**

Programme	Students	Existing Faculty	Ratio
UG - B.Tech.	540	36	15:1
PG - M.Tech.	72	6	12:1
PG - MCA	180	6	30:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
08	08	03	03

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG :**

Highest Qualification	Professors	Associate Professors	Assistant Professor	Total
Ph.D.	01	01	00	02
M.E./M.Tech.	--	03	30	33
B.E./ B.Tech.	--	--	07	07
MCA	--	--	06	06

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** Nil

18. **Research Centre/ facility recognized by the University :**
    - Applied to Andhra University

19. **Publications :**
    - Number of publications per faculty : 2.98
    - Number of publications in peer reviewed journals (National /International) by faculty and students **:**143

S.No.	Name of the Faculty	No. of Papers in National Journals	No. of Papers in International Journals	Total
1	Dr. A.Yesu Babu	1	16	17
2	Mr. K Anil Chowdary	---	3	3
3	Mr. P Ratna Kumar	--	10	10
4	Mr. J.S.V.Gopala Krishna	--	7	7
5	Mr. M Krishna	--	9	9
6	Mr. S M B Chowdary	--	1	1
7	Mrs. G Nirmala	--	6	6
8	Mr. K Srinivas	--	5	5
9	Mrs. K N Madhavi Latha	--	5	5
10	Mrs. K.Chaitanya Deepthi	--	2	2
11	Mr. N.Deepak	1	6	7

12	Mrs. Y.Leela Sandhya Rani	--	4	4
13	Mr. K.Varada Rajkumar	--	2	2
14	Mr. M.Ganesh Babu	--	8	8
15	Mr. G Satyanarayana	--	3	3
16	Mr. B H Benny	--	7	7
17	Mrs. Ch Ramadevi	--	3	3
18	Mr. S K Chaitanya	--	3	3
19	Mr. Samparthi V S Kumar	--	4	4
20	Mrs. P Naga Deepthi	--	4	4
21	Mr. M Madhava Rao	--	5	5
22	Mr. V Shariff	--	6	6
23	Ms. D V V Deepthi	--	6	6
24	Mr. V Pranav	--	3	3
25	Mr. Ch Srinivas	--	4	4
26	Ms. K.Swathi	--	1	1
27	Mr. S.Jaya Prakash	--	1	1
28	Mr. K.B.V.Prasad	--	1	1
29	Mr.M.Sathi Ekambareesh	--	1	1
Total		**2**	**141**	**143**

- 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.) : 11
- Monographs : Nil
- Chapters in Books : 8

S.No.	Name of the Faculty	Name of the Book	ISBN / ISSN	Publisher
1	Dr. A.Yesu Babu	Computational Intelligence Techniques in Health Care	ISBN 978-981-10-0307-3	SPRINGER
2	Dr. A.Yesu Babu	Application of Computational Intelligence to Biology	ISBN 978-981-10-0390-5	SPRINGER
3	Dr. A.Yesu Babu	Application of Computational Intelligence to Biology	ISBN 978-981-10-0390-5	SPRINGER
4	Mr. N. Deepak	Application of Computational Intelligence to Biology	ISBN 978-981-10-0390-5	SPRINGER
5	Mrs. G. Nirmala	Computational Intelligence Techniques in Health Care	ISBN 978-981-10-0307-3	SPRINGER
6	Mr. P Ratna Kumar	Better software testing process for user friendly environment	978-93-82829-60-7	IEEE

7	Mrs. K Chaitanya deepthi	Better software testing process for user friendly environment	978-93-82829-60-7	IEEE
8	Mr. B H Benny	Better software testing process for user friendly environment	978-93-82829-60-7	IEEE

- Books Edited : Nil
- Books with ISBN/ISSN numbers with details of publishers: Nil
- Citation Index: Nil
- SNIP : Nil
- SJR : Nil
- Impact Factor :Min: 0.25 Max: 1.19
- h-index : Nil

20. **Areas of consultancy & income generated :** Online examinations, Rs/- 40,11,000

21. **Faculty as members in :**

- National committees: Nil
- International committees: Nil
- Editorial boards:

S.No	Name of the Faculty	Description
1	Dr. A. Yesu Babu	Editorial Board Of International Journal Of Computer Science And Technology (IJCST)
2		Peer-Reviewer For International Journal Of Bioinformatics Research And Applications (IJBRA)
3		Peer-Reviewer for journal of computational biology and bioinformatics research (JCBBR)
4		International journal for biometrics and bioinformatics (IJBB)
5		Member of board of studies in CSE of Andhra university
6		Organizing committee member in the international conference ACSECT-15 conduct from 17th Jan 2015 at bangkok

22. **Student Projects :**

Academic Year	Course/ Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG – B.Tech.	61.81	38.19
	PG – M.Tech.	--	Still progress

	PG - MCA	--	Still progress
2014-15	UG – B.Tech.	77.27	22.73
	PG – M.Tech.	---	100
	PG - MCA	--	100
2013-14	UG – B.Tech.	79.41	20.59
	PG – M.Tech.	--	100
	PG - MCA	--	100

23. Awards/ recognitions received by faculty and students :

S.No.	Name of the Faculty/Student	Award	Year
1	Ms. P.Meghana	Gutta sambaiah gold medal and Cash Prize of Rs 5000/-by CSI-Vishakapatnam	2016
2	Ms. G. Neeraja	Gutta sambaiah gold medal and Cash Prize of Rs 5000/-by CSI-Vishakapatnam	2015
3	Ms. Kodi Sravya	Prathibha award from Government Of A.P.	2014
4	Ms. M.Aiswarya	Gutta sambaiah gold medal and Cash Prize of Rs 5000/-by CSI-Vishakapatnam	2014
5	Mr. P Venkateswara rao	Gutta sambaiah gold medal and Cash Prize of Rs 5000/-by CSI-Vishakapatnam	2013
6	Mr. S K S S Bhaskar Varma	Appreciation Award by W.G. Collector on 2013 Republic Day for the Development of police verification report Online passport module	2013
7	Mr. R Charan Kumar		2013
8	Mr. N Venkateswra Rao		2013
9	Mr. N Nanda Kishore		2013
10	Mr. V Vasantha Kumar		2013

24. List of eminent academicians and scientists / Visitors to the department. :

S.No.	Name	Designation	Industry/Institution Address
1.	Prof. G.S.N.Raju	Vice Chancellor	Andhra University, Visakhapatnam
2.	Sri T. Mallynadh	Project leader	Tata Consultancy Services, Hyderabad
3.	Sri Chiranjeebi Benerjee	Sr. Software Engineer	Hewlet Packard, Hyderabad
4.	Sri Murthi	Technology Director	Hindustan Computers

	S.N.Bhamidi		Limited, Noida
5.	Dr. K. Subrahmanyam	Professor	Department of CSE, KL University, Vijayawada
6.	Dr. V. Chandra Sekhar	Associate Professor	Department of CSE, SRKR College of Engineering, Bhimavaram
7.	Dr. P.V.G.D. Prasada Reddy	HOD & Professor	Department of CSE, Andhra University College of Engineering, Visakhapatnam
8.	Sri T. Venu	Project Lead	Pinnacle Nanotech Pvt. Ltd.
9.	Sri Karthik	Sr Project Manager	Tata Consultancy Services, Hyderabad
10.	Sri Narasimha .M	Director	TIME, Hyderabad
11.	Dr. Y. Vamsidhar	HOD & Professor	Department of CSE, Swarnandhra College of Engineering, Narasapuram
12.	Dr. V. Srinivasa Rao	HOD & Professor	Dept. of CSE,VR Siddartha College of Engineering,Vijayawada
13.	Mrs Ch.Aruna Kumari	Dean	Sir CRR Women College, Eluru
14.	Sri K.Venkata Ratnam	Project Manager	International Business Machines Corporation, Banglore
15.	Sri L. AnanthRam	Project leader	Bharateeya Sanchar Nigam Limited, Eluru
16.	Dr. V. Valli Kumari	Professor	Andhra University College of Engineering, Visakhapatnam
17.	Dr. K.V. Ramana	Professor	JNTUK, Kakinada
18.	Dr. G. Tammi Reddy	Professor	Department of CSE , Gitam University, Visakhapatnam
19.	Sri Kakarala Raghu	Chief Technology officer	Engauge, USA.
20.	Sri K. Ramalinga Raju	Senior Project Manager	Hewlet Packard, Hyderabad
21.	Dr. G. Partha Saradhi Varma	HOD & Professor	Department of IT, SRKR College of Engineering, Bhimavaram
22.	Dr. P. Suresh Varma	Professor	Principal, College of Enginering, Adikavi

			Nannayya University, Rajahmundry
23.	Dr. Y. Srinivas	Professor	Department of IT , Gitam University, Visakhapatnam
24.	Dr. B.Pattabi ram	Psychologist	Mind magician, Psychologist, Hyderabad
25.	Dr.K.Lakshmi Narayana	Founder & Director APSSDC, Retd.IAS	APSSDC, Hyderabad

25. **Seminars/ conferences/ workshops organized & the source of funding :**

S.No.	Type	Academic Year	Date	Name of the Seminars / conferences/ workshops	Sources of Funds
1	National	2015-16	18th March 2016 To 20th March 2016	Workshop on Python and shell scripting workshop	Institution
2		2015-16	14th October 2015 to 12th December 2015	Workshop on Advanced Web Application and Development with JAVA	APSSDC
3	National	2014-15	1st February 2015, to 03rd February 2015	Workshop on APP development	Institution
4		2014-15	28th October 2014,	A Two Day Workshop Cloud	Institution

			29th October 2014	Security	
5		2014-15	23rd June 2014, 24th June 2014	A Two Day Workshop on Teaching Methodologies	Institution
6	National	2013-14	27th December 2013, 28th December 2013	National Conference on Research issue and Recent Trends in Computer Science and Information Technology (NCRRCSIT-2013)	Institution
7		2013-14	17th October2013, & 18th October2013	A Two Day Workshop on Web applications & Designing	Institution
8		2013-14	02nd July 2013	A One Day workshop on Data Warehousing.	Institution
9	National	2012-13	19th December 2012	Seminar on Opportunities and Career in Cloud Computing	Institution
10		2012-13	30th August 2012, To 1st September 2012	Workshop on IBM Rational Rose	Institution
11		2012-13	1st & 2nd August 2012	Workshop on Web Design	Institution

26. Student profile programme/ course wise :

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	207	113	94	64.25
	2014-15	--	182	92	90	69.61
	2013-14	--	138	73	65	66.66
	2012-13	--	125	61	64	57.60
M.Tech.	2015-16	--	21	9	12	97.05
	2014-15	--	34	18	16	79.41
	2013-14	--	33	22	11	100.00
	2012-13	--	25	17	8	96.00
MCA	2015-16	--	31	20	11	67.98
	2014-15	--	35	15	20	90.90
	2013-14	--	30	13	17	96.66
	2012-13	--	48	24	24	100.00

27. Diversity of Students :

Name of the course	Academic Year	%of Students from same state	%of Students from other state	%of Students from abroad
B.Tech.	2015-16	100	0	0
	2014-15	98.9	1.1	0
	2013-14	100	0	0
	2012-13	100	0	0
M.Tech.	2015-16	100	0	0
	2014-15	97.05	2.95	0
	2013-14	100	0	0
	2012-13	100	0	0
MCA	2015-16	100	0	0
	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense service etc., :

Examination	2015-16	2014-15	2013-14	2012-13
GATE	5	2	4	0

GRE	13	10	14	10
IELTS	1	10	10	3

29. **Student Progression :**

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
UG to PG	3.86	8.79	11.59	16.80
PG to M.Phil	0	0	0	0
PG to Ph.D	0	0	0	0.80
Campus	31.88	14.83	8.69	2.40
Other than Campus	5.79	13.63	8.69	26.40
Entrepreneurship/ self-employment	1.44	5.49	1.44	4.80

30. **Details of Infrastructural facilities :**

a) Library

- Name : Computer Science and Engineering Department Library
- Area: 66 sq. mts.
- No.of Volumes: 1793
- No.of Titles: 581

b) Internet facilities for Staff & Students

- Provided with 120 Mbps Internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility

- 01- Lecture Hall 40
- In addition to that, Projector, Laptop & OHP are available in the departments.

d) Laboratories

Name of the Laboratory	Area(sq.mts.)	Investment(Rs.)
Lab-I (DS,OS,DBMS)	132	33,52,081
Lab-II (OOP,G&M)	132	44,59,807
Lab-III (DCNP,FS)	132	32,47,550
Lab-IV (OOSE,PROJECTS, WT)	132	20,14,310
CO & MP LAB	92	9,33,722
	Total	**1,40,07,470**

31. **Number of students receiving financial assistance from college, university, government or other agencies :**

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	439	446	416	354

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts :**

S.No.	Name of the Expert	Date	Topic
1	Sri J. Sridhar	08th August 2016 to 20th August 2016	Campus Recruitment Training Programme, M/s. Triumphant Training Solutions.
2	Dr. Myneni Madhu bala	30th July2016 to 01st August 2016	R. Programming Workshop.
3	Dr. Suresh Babu. S	04th March 2016	TechFest (Conducted events on paper presentation, Technical Quiz, APP development, Online debugging).
4	Sri Murthy S.N. Bhamidi	2nd January 2016	Guest Lecture on industry innovation and Enterpreneurship Future challenges
5	Sri I. Naga Babu	20th December 2015 To 05th March 2016	APSSDC Skill Development Programme
6	Sri Y. Vishnu & Srinivas Murthy	16th December2015	One day Workshop on Speech Processing and its Applications using MAT lab Tool Box
7	Sri C.Varun	22nd June 2015 To 10th July 2015	Campus Recruitment Training Programme, Focus Academy for Career Enhancement
8	Sri Oja	18th March 2015 To 20th March 2015	Workshop on HTML, MYSQL, CSS
9	Dr. V Chandrasekar	04th March2015	TechFest(Conducted events on paper presentation, Technical Quiz, APP development, Online debugging)
10	Sri K. Madhu	5th January 2015 to 3rd March 2015	APSSDC Skill Development Programme Android App development
11	Sri B.V. Raju	05th to 27th June 2014	Campus Recruitment B.V.Raju Associates, Eluru
12	Sri Oja	27th&28th	Andriod App Development

		December 2013	
13	Dr. Ganapathi Panda	17th&18th November2013,	Trends in digital speech processing
14	Sri K.Srinivas	01st to 15th July 2013	Campus Recruitment Training Programme
15	Prof. J.A. Chandu Lal	02nd July 2013	Currents Trends in IT
16	Dr. V. Srinivasa Rao	27th& 28th November 2012,	Cloud computing
17	Dr. K. Subramanyam	30th August 2012, to 01st September 2012	Current Research Topic In Software Engineering
18	Sri M. Sampath kumar	20th August 2012	New Technology in IT
19	Dr. P. S. Rao	13th August 2012	Image processing
20	Dr. M. Shashi	01st& 2nd August 2012	New methods on Big Data
21	Sri J. Sridhar	01st to 15th July2012	Campus Recruitment Training Programme, PACE Institute

33. Teaching methods adopted to improve student learning :

- Conducting Tutorial classes for the subjects prescribed in the syllabus.
- Guiding the students to do innovative projects for practical applications.
- Enhancing knowledge of students by allowing them to attend NPTEL lectures.
- Providing practical exposure to students by conducting various workshops.
- Assignments are given to students frequently to make use of the library, text book reading and self learning.
- Motivating the students to participate in classroom seminars, group discussions, technical quizzes and mock interviews.
- Training the students on topics beyond syllabus.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

- Organizes various Blood Donation camps.
- Voluntary Blood donation by the students throughout the year at different hospitals in Eluru in emergency cases.
- Helping students at physically handicapped schools by donating books and food materials
- Helping leprosy patients in Eluru by donating clothes and medicines

- Conducting educational events at various rural schools
- Contribution of one day salary of the staff to government of Andhra Pradesh relief fund during hudhud cyclone.

35. SWOC analysis of the department and Future plans :

STRENGTHS:

- Qualified and well experienced faculty with an average experience of more than 5 years.
- Good Infrastructure and Well equipped laboratories.
- Endless co-curricular and Extra-curricular activities by ACE, ISTE and CSI student Chapters.
- A good interaction between faculty and students.
- A large volume of Textbooks and reference books in the department library in addition to central library.
- Strong Alumni.

WEAKNESSES:

- Less exposure to latest facilities for learning technologies
- Communication skills of students.

OPPORTUNITIES:

- Improvement in student personality development
- Higher number of campus placements in reputed companies.
- Increasing demand for technical education at graduate and post graduate level in various sectors.

CHALLENGES:

- To modernize the curriculum on par with upcoming technologies as per the industry requirement.
- To induce industry experienced faculty
- To improve research and consultancy activities.
- To attract product based companies like google and Microsoft for placements.

FUTURE PLANS:

- The department aims to strength teaching and research in various areas and plans to provide high level computing facilities to all the students, faculty members and researchers. So that they can stand at the forefront of technology.
- The department exposes the faculty and students to the recent technologies like IOT, Big data analytics and cyber security by conducting more number of workshops, symposiums.
- Planning to start data analytics lab, IOT lab.

PHOTO GALLERY

Guest Lecture on Industry Innovation and Entrepreneurship Future Challenges

National symposium on IOT

Workshop on Python Shell Scripting

Workshop on Speech Processing And Its Applications Using Mat Lab Tool Box

CLASIC Annual Day Celebrations

Workshop on Ethical Hacking

3 Day Workshop on R Programing

Workshop on HTML, CSS & Mysql

APSSDC Project Training for IV/IV CSE Students

Fresher's Day Celebrations

EVALUATION REPORT OF THE EEE DEPARTMENT

1. **Name of the department :** Electrical and Electronics Engineering
2. **Year of Establishment :** 1994
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
    - U.G - B.Tech. (Electrical and Electronics Engineering)
    - P.G - M.Tech. (Power Systems and Automation)
4. **Name of Interdisciplinary courses & the departments/ units involved :**

S.No.	Department involved	Year/ Semester	Name of the Interdisciplinary Course	Programme
1	FED	II/II	Mathematics -IV	B.Tech.
2	ME	II/II	Thermal Prime Movers	
3	CIVIL	II/II	Environmental Science	
4	ME	II/I	Engineering Mechanics And Strength Of Materials	
5	FED	II/I	Mathematics-III	
6	CSE	III/I	Computer Architecture And Organization	
7	ME	IV/II	Engineering Economics And Management	

5. **Annual/ semester/ choice based credit system (programme wise) :**
Semester system:
    - B.Tech.- Choice Based Credit System
    - M.Tech.- Choice Based Credit System
6. **Participation of the department in the courses offered by other departments :**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	Professional Ethics & Moral Values	I/I	FED
2		Network Theory	II/I	ECE
3		Electrical Machines	II/I	ECE

4		Elements of Electrical Engineering	II/I	CSE,IT
5		Electrical Technology	II/II	ME
6		Control Systems	III/II	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 :**

Name of the Post	Sanctioned	Filled
Professors	4	2
Associate Professors	9	5
Assistant Professors	27	33
Total	**40**	**40**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years
1	Dr. A.Srinivasa Reddy	Ph.D.	Professor& HOD	Power Systems	16	02
2	Dr. Y.Butchi Raju	Ph.D.	Professor	Power System & High voltage	14	--
3	Mr. S.R. Sagar	M.Tech.	Associate Professor	Power Systems	26	--
4	Mr. G. Ram Mohan Rao	M.Tech.	Associate Professor	Information Technology in Power Systems	30	--
5	Dr. M. Aruna Bharathi	Ph.D.	Associate Professor	Power Systems	9	--
6	Dr. M.Veera Kumari	Ph.D.	Associate Professor	Power Systems	13	--

7	Dr. N. Bhupesh Kumar	Ph.D.	Associate Professor	Electrical Energy Systems	11	--
8	Mr. A. S. Prakasha Rao	M.Tech.	Sr. Assistant Professor	Power Systems	14	--
9	Mr. T. Kranthi Kiran	M.Tech.	Assistant Professor	Power System Engineering	10	--
10	Mr. N. Rama Narayana	M.Tech.	Assistant Professor	Power System Engineering	8	--
11	Mr. J. Ayyappa	M.Tech.	Assistant Professor	Power Systems & Automation	5	--
12	Mrs. P. Naga Sowjanya	M.Tech.	Assistant Professor	Power & Industrial Drives	6	--
13	Mr. M. Sunil Kumar	M.Tech.	Assistant Professor	Power Electronics	6	--
14	Mr. U. Ranjith Kumar	M.Tech.	Assistant Professor	Energy Studies	6	--
15	Mr. N.V.S.R. Pavan Kumar	M.E.	Assistant Professor	Power Systems & Automation	6	--
16	Mrs. T. Deepti Prasanna	M.Tech.	Assistant Professor	Power Electronics	5	--
17	Mr. A. Durga Prasad	M.Tech.	Assistant Professor	Power System Engineering	5	--
18	Mr. A.N.P. Girish Kumar	M.Tech.	Assistant Professor	Power Electronics	5	--
19	Mr. R. Madh usudan	M.E.	Assistant Professor	Power Systems & Automation	4	--
20	Mr. K. Venkatesh	M.Tech.	Assistant Professor	Power Electronics	4	--
21	Mr. S.N.V. Bramareswara Rao	M.E.	Assistant Professor	Power Systems & Automation	7	--
22	Mr. B. Sambasiva Rao	M.E.	Assistant Professor	Power Systems	1	--
23	Ms. Ch.Prasanna Lakshmi	M.Tech.	Assistant Professor	Power Electronics & Electrical Drives	1	--
24	Mr. T. Nagaraju	M.Tech.	Assistant Professor	Electrical Power	3	--

				Systems		
25	Mr. K. Kotaiah Chowdary	M.Tech.	Assistant Professor	Power & Industrial drives	1	--
26	Mr. Sk. Chan Basha	M.E.	Assistant Professor	Power Systems & Automation	1	--
27	Mr. G. Ganesh	M.E.	Assistant Professor	Power Systems & Automation	1	--
28	Ms. P. Vani	M.Tech.	Assistant Professor	Power Systems	0	--
29	Mr. K. Lakshmayya	M.E.	Assistant Professor	Power Systems & Automation	0	--
30	Mr. P. Vamsi Krishna	M.E.	Assistant Professor	Power Systems & Automation	0	--
31	Mr. B. Phani Chaitanya	M.E.	Assistant Professor	Power Systems & Automation	0	--
32	Mrs. B.V. Soundarya Sithadevi	M.E.	Assistant Professor	Power Systems & Automation	0	--
33	Mrs. K. Neelima	B.Tech.	Assistant Professor	EEE	0	--
34	Mrs. D.V. Padma	B.Tech.	Assistant Professor	EEE	0	--
35	Mrs. T. Jahnavi	B.Tech.	Assistant Professor	EEE	0	--
36	Mrs. T. Sukanya	B.Tech.	Assistant Professor	EEE	0	--
37	Mrs. B. Rajitha	B.Tech.	Assistant Professor	EEE	0	--
38	Mr. T. Kumar Raja	B.Tech.	Assistant Professor	EEE	0	--
39	Mr. V. Aravind	B.Tech.	Assistant Professor	EEE	0	--
40	Mr. V.B.N. Vijaya Kanth	B.Tech.	Assistant Professor	EEE	0	--

11. **List of senior visiting faculty :**

S.No.	Name of the Expert	Designation	Industry Address
1	Dr. D. Das	Professor	Department of Electrical Engineering, IIT, Kharagpur
2	Sri D.Ramakrishna	Managing Director	Effectronics Pvt.Ltd., Vijayawada
3	Dr. G.Govinda Rao	Emeritus Professor	Andhra University, Visakhapatnam
4	Dr.K. Rama Sudha	Professor & Head	Department of Electrical Engineering, AUCE(W) Andhra University, Visakhapatnam
5	Dr. Ch.V.V.S. Bhaskara Reddy	Professor	Department of Electrical Engineering, Andhra University, Visakhapatnam
6	Dr. R.Srinivas Rao	Professor	Electrical & Electronics Engineering Department, JNTUK, Kakinada

Prof. D Das, IIT Khargpur Prof. G.Govindarao A.U Visakhapatnam

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** Nil

13. **Student -Teacher Ratio (programme wise) :**

Programme	Students	Existing Faculty	Ratio
UG	540	36	15:1
PG	48	04	12:1

14. **Number of academic support staff (Technical) and administrative staff; sanctioned and filled :**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
06	06	05	05

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. :**

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	02	03	00	05
M.E./M.Tech.	--	02	27	29
B.E./BTech.	--	--	06	06

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** Applied

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :**

Name of The Faculty	Title of The Project	Funding Agency	Sanctioned Amount (Rs.)	Status
Prof. P.S.M. Satyanarayana	MODROBS (Electrical Machines Lab)	AICTE	9,00,000	Completed

18. **Research Centre/ facility recognized by the University :**

- Applied to Andhra University

19. **Publications :**

- Number of publications per faculty:1.93
- Number of publications in peer reviewed journals (National / International) by faculty and students : 77

S.No.	Name of the Faculty	No. of Papers in National Journals	No. of Papers in International Journals	Total
1	Dr. A. Srinivasa Reddy	--	15	15
2	Dr. Y. Butchi Raju	--	07	07
3	Mr.S.R. Sagar	--	02	02
4	Mr. G.Rama Mohan Rao	--	02	02

5	Dr. M. ArunaBharathi	--	04	04
6	Dr. M.Veera Kumari	--	03	03
7	Dr. N. Bhupesh Kumar	--	04	04
8	Mr. A. S. Prakasha Rao	--	04	04
9	Mr. T. Kranthi Kiran	--	04	04
10	Mr. N. Rama Narayana	--	02	02
11	Mr. J. Ayyappa	--	04	04
12	Mr. M.Sunil Kumar	--	03	03
13	Mr. U.Ranjith Kumar	--	04	04
14	Mr. A.N.P.Girish Kumar	--	01	01
15	Mr. S.N.V.B. Rao	--	01	01
16	Mr. T. Nagaraju	--	02	02
17	Mr. K. Kotaiah Chowdary	--	01	01
18	Mr. Sk. Chan Basha	--	01	01
19	Mr. G.Ganesh	--	01	01
20	Prof. P.S.M. Satyanarayana	--	02	02
21	Mr. K. R. Reddy	--	01	01
22	Dr. I.Satish Kumar	--	09	09
Total		**0**	**77**	**77**

- 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.**):** 14
- Monographs : Nil
- Chapters in Books : Nil
- Books Edited (Reviewed) : 02

S.No.	Name of the Faculty	Title of the Book	ISBN	Publisher
1	Dr. Y.Butchi Raju	Circuits and Networks Analysis and Synthesis	9789339219604	TMH New Delhi
2	Dr. Y Butchi Raju	Electronic circuits and Devices	9789352602926	TMH New Delhi

- Books with ISBN numbers with details of publishers: 03

S.No.	Name of the Faculty	Title of the Book	ISBN	Publisher
1	Prof . Shyam Mohan S Palli	Electrical Machines - I	9780071328890	Tata –McGraw Hill, New Delhi
2		Electrical Machines - II	10: 1259029999 13: 9781259029998	
3		Principles of Electrical Engineering	10: 125900449X 13:978-1259004490	

- Citation Index : Min:2 Max:5
- SNIP : Min: 0.63 Max:3.56
- SJR : Min: 0.27 Max:2.22
- Impact Factor : Min:0.55 Max:3.92
- h-index : Nil

20. **Areas of consultancy & income generated:** Transformer oil Testing

21. **Faculty as member in :**

- National committees: Nil
- International committees: Nil
- Editorial boards/ Reviewers : 2

S.No.	Name of the Faculty	Description
1	Dr.A. Srinivasa Reddy	Taylor and Francis Engg. Journal – Electrical Power Components and Systems.
		ELSVIER – International journal of Electrical Power and Engineering Systems.
		ELSVIER – Applied Soft Computing.
		IET Generation Transmission & Distribution Journal.
2	Dr. Y. Butchi Raju	Taylor and Francis Engg. Journal – Electrical Power Components and Systems.
		ELSVIER – International Journal of Electrical Power and Engineering Systems.
		World journal of modeling and simulation (WJMS)

22. Student Projects :

Academic Year	Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG	80.0	20
	PG	94.5	5.5
2014-15	UG	90.0	10
	PG	94.5	5.5
2013-14	UG	85.0	15
	PG	94.5	5.5

23. Awards/ recognitions received by faculty and students :

S.No.	Name of the Faculty/ Student	Award	Year
1	Mr.K. Sasidhar Reddy	Kalagara Rattaiah Educational Trust	2015-16
2	Ms. B. B. A. Rajya Lakshmi	Kalagara Rattaiah Educational Trust	2015-16
3	Ms. Ch. Mounica	Kalagara Rattaiah Educational Trust	2015-16
4	Mr. K.Vamsi Ratnam	Kalagara Rattaiah Educational Trust	2015-16
5	Mr.K. Sasidhar Reddy	Kalagara Rattaiah Educational Trust	2014-15
6	Ms.P.H.S. Jagadeeswari	Kalagara Rattaiah Educational Trust	2014-15
7	Ms.D.Sai Sree	Kalagara Rattaiah Educational Trust	2014-15
8	Mr.V. Durga Prasad	Kalagara Rattaiah Educational Trust	2014-15
9	Mr.V. Durga Prasad	Kalagara Rattaiah Educational Trust	2013-14
10	Ms.D. SaiSree	Kalagara Rattaiah Educational Trust	2013-14
11	Ms.G.Tejaswi	Kalagara Rattaiah Educational Trust	2013-14
12	Mr.S. Sai Koteswara Rao	Kalagara Rattaiah Educational Trust	2013-14
13	Ms.Sylvia Phebe Mudada	Prof. K.V.AppaRao Memorial Prize from Andhra University	2011-12

24. List of eminent academicians and scientists / visitors to the department :

S.No.	Name	Designation	Industry/Institution Address
1	Dr. P.Suresh Babu	Assistant Professor	NIT Warangal
2	Dr. G. Govinda Rao	Emeritus Professor	Andhra University, Visakhapatnam

3	Sri V.Nanda Kishore	Manager	Freelance Educator
4	Dr. B.Pattabhiram	Psychologist	Mind magician, Psychologist, Hyderabad
5	Sri B.Raju	Assistant Divisional Engineer	KTPS, Kothagudem

25. **Seminars/ conferences/ workshops organised & the source of funding :**

S.No.	Type	Academic Year	Name of Seminars/Conference/workshop	Sources of Funds
1	National	2015-16	Seminar on smart grids, on 30th Sep 2015	Institution
2			Seminar on Indian scenario and operational practise in thermal power plants on 08th Aug 2015	Institution
3	National	2014-15	Seminar on DG, 26th Aug 2014	Institution
4			Work shop on PLC programming and applications,1st March 2015	Institution
5	National	2013-14	Seminar on power plant generator protection on 4th July 2013,	Institution
6			Two day national on Power system control operation and maintenance (PSCOM-2014) 24th& 25th Jan 2014	Institution

26. **Student profile programme/ course wise :**

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	158	111	47	63.44
	2014-15	--	86	58	28	65.42

	2013-14	--	91	66	25	68.57
	2012-13	--	90	62	28	53.19
M.E.(PSA)	2015 - 16	--	16	08	08	87.5
	2014 - 15	--	20	10	10	83.33
	2013 - 14	--	19	12	7	100
	2012 - 13	--	23	16	7	93.75

27. **Diversity of Students :**

Name of the course	Academic Year	%of Students from same state	%of Students from other state	%of Students from abroad
B.Tech.	2015-16	99.6	0.4	00
	2014-15	99.8	0.2	00
	2013-14	99.6	0.4	00
	2012-13	99.4	0.6	00
M.E.	2015-16	100	00	00
	2014-15	100	00	00
	2013-14	100	00	00
	2012-13	100	00	00

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence service etc., :**

Examination	2015-16	2014-15	2013-14	2012-13
GATE	08	07	07	36
GRE	07	08	02	02
IELTS	01	13	06	03

29. **Student Progression :**

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
UG to PG	5.23	2.32	12.08	6.66
PG to Ph.D.	--	0	0	0
Campus	17.72	33.72	6.59	1.11
Other than Campus	11.00	--	16.48	36.66
Entrepreneurship/ self-employment	--	--	3.00	4.00

30. **Details of Infrastructural facilities :**

a) Library

- Name : Sri. V.V.N. Prasad Memorial EEE Department Library

- Area : 45 sq. mts
- No. of Volumes: 1668
- No. of Titles: 425

b) Internet facilities for Staff & Students

- Provided with 120Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

Class rooms with ICT facility

- 3 – Lecture Hall 8, 11, & Department Computer Center.
- In addition to that Projector, Laptop & OHP are available in the department.

c) Laboratories

Name of the Laboratory	Area (sq. mts)	Investment(Rs.)
Electrical machines –I	252	22,82,421
Electrical machines -2	161	
Networks & Measurements	161	6,57,389
Control Systems	161	4,25,063
Electronic Devices & Circuits	161	3,21,698
Power Electronics	161	7,50,874
Power System Simulation lab	161	54,27,489
Digital Electronics & Microprocessor lab	161	4,38,583
Total		**1,03,03,517**

31. **Number of students receiving financial assistance from college, university, government or other agencies :**

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	499	447	376	287

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts :**

S.No.	Name of the Expert	Date	Event/Topic
1	Sri P.V. Brahmaji Rao, Retired Principal, SPDBT Junior College, Eluru	19th August, 2016	Seminar on Vanam Manam
2	Sri Y.V.L.N.Murthy Hitech Automation, Vijayawada	16th&17th Feb2016	A Two day work shop on ARDUINO and INTERFACING

3	Sri J. Raja Ram Hitech Automation, Vijayawada	25th to 27th Feb 2016	Three – day Job oriented Industrial automation workshop on PLC-Program & applications
4	Sri Ramakrishna, MD Effectronics	16th Dec 2015	4th Anniversary Institution of Engineers India
5	Sri B. Raju. ADE/MRT, KTPS-C Station, Paloncha	30th Sep2015	Different types of Substations in GRID and its elements.
6	Dr. G.Samba SivaRao & Prof. Shyam Mohan.S. Palli	15th sep 2015	Engineers Enclave on Engineer's day celebrations
7	Dr. D. Das, Professor IIT, Kharagpur	26thAug2014	Optimization of Distributed Generation
8	Sri B. Raju, ADE, KTPS, Kothagudem	04th July 2013	Power Plant Generator Protection
9	Dr. G. Govinda Rao, Emeritus Professor Andhra University, Visakhapatnam	11th Dec 2013	Causal Systems and Applications
10	Mr. V. Nandakishore, M/S Freelance Educator	20th Dec 2012	Introduction to open courseware IEI 3rd Anniversary

33. **Teaching methods adopted to improve student learning :**

- Lecture interspersed with discussions (black-board teaching)
- Tutorials
- Experiments (such as model, laboratory)
- Group Assignment/ Project
- Presentations

In addition to the syllabus mentioned in the curriculum, the students expos themselves by providing the e-content through national and international portals such as

- NPTEL http://nptel.iitm.ac.in
- Stanford Engineering Everywhere (SEE) http://see.stanford.edu
- MIT Open Courseware http://ocw.mit.edu/index.htm

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities :**

- Students along with librarian visited collector on 08-02-2016 for S.C community books donation
- Eight Students of our department participated in NSS Special camp from 31/01/2016 to 06/02/2016.
- EEE students visited orphanage and donated three hearing aids for deaf & dumb children on 02/10/2015
- 57 EEE students donated blood on 23-12-2015 to Red Cross society.
- On the occasion of Police commemoration day 12 students donated

blood on 15/10/2015.

- 7 EEE students donated blood on 27/08/2015.
- Students of EEE department took part in "SWACH BHARAT" Programme by cleaning their department premises & also by planting plants.
- 37 Students donated blood on blood donation camp on 07/03/2014
- 23 students participated in NSS events on 23-01-2014 to25-01-2014

Donated hearing aids to Deaf &Dum Students

35. SWOC analysis of the department and Future plans :

STRENGTHS:

- Well qualified and experienced faculty members with diverse specializations.
- Committed, experienced faculty with high average teaching experience, out of which five are having Ph.D. as their highest degree.
- Well Equipped laboratories.
- Good faculty retention ratio and staff student ratio.
- Alumni support in training and guiding students.

WEAKNESSES:

- Quality of the Incoming Students.
- Limited R&D work and consultancy services.
- Minimal Industry-Institution Interaction.
- Less exposure of faculty to Industrial Environment.
- Entrepreneurship and communication skills of students are weak.

OPPORTUNITIES:

- Upgradation of qualification of teaching and non-teaching staff

members.

- Encourage Faculty and Student participation in International Conferences, Workshops and Short Term Training Programs.
- More placements and higher studies opportunities.
- Encouraging the faculty and students to undertake funded projects.
- Motivating the students to undertake multidisciplinary projects.
- Alumni support in training the students.

CHALLENGES:

- To achieve 100% results in examination
- To achieve 100% employment.
- To train the students and make them industry ready.
- Motivate the students to become entrepreneurs in the core domain.
- To foster research by establishing R&D Centers.

FUTURE PLANS:

- Department of EEE is planning to add courses such as 'Control Systems' at PG level to widen the prospects for EEE students.
- It is encouraging all faculty to involve in research activity, apply for projects and faculty without Ph.D. to register for Ph.D.
- To facilitate learning oriented environment, the department is also encouraging students to participate in co-curricular activities and plans to widen the scope of these activities.

PHOTO GALLERY

KIRLOSKAR ELECTRIC

EVALUATION REPORT OF THE ECE DEPARTMENT

1. **Name of the department :** Electronics & Communication Engineering
2. **Year of Establishment :**1989
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
    - UG- B.Tech. (Electronics and Communication Engineering)
    - PG- M.Tech. (Very Large Scale Integration)
    - PG- M.Tech. (Communication Systems)
4. **Name of Interdisciplinary courses & the departments/units involved :**

S.No.	Department involved	Year/ Semester	Name of the Interdisciplinary course	Programme
1	FED	II/I	Mathemetics - III	B.Tech.
2	ME	II/I	Engineering Mechanics & Strength of Materials	
3	EEE	II/I	Electrical Machines	
4	EEE	II/I	Network Theory	
5	FED	II/I	Material Science	
6	FED	II/II	Mathematics IV	
7	EEE	II/II	Advanced Network Theory	
8	FED	II/II	Environmental Studies	
9	EEE	III/II	Control Systems	
10	IT	III/II	Data Structures	
11	MBA	IV/II	Principles of Economics and Management	

5. **Annual/ semester/ choice based credit system (programme wise) :**

    Semester System :
    - B.Tech. - Choice Based Credit System
    - M.Tech. - Choice Based Credit System
6. **Participation of the department in the courses offered by other departments :**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	Pulse & Digital Circuits	III / I	EEE
2		Linear Integrated Circuits	III / I	EEE
3		Analog Electronic Circuits	II / II	EEE
4		Electronics-1	I / II	CSE
5		Ethics & Moral Values	I / I	FED
6	PG	SACM	I / I	ME

7. Courses in collaboration with other universities, industries, foreign institutions, etc.,:

- St.Theresa Autonomous College for women and Sir. CRR College of Engineering are having mutual beneficial and formal understanding in taking up collaborative programmes for the benefit of students and to the community from 2016 onwards.
- MOU with Effectronics systems Pvt.Ltd.

8. Details of courses/ programmes discontinued (if any) with reasons: Nil

9. Number of Teaching posts:

Name of the Post	Sanctioned	Filled
Professors	4	--
Associate Professors	8	3
Assistant Professors	31	40
Total	**43**	**43**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for last 4 years
1	Dr. T. Venkateswara Rao	Ph.D.	Associate Professor & HOD	Microwave Engineering	27	--
2	Mr. K.V.R. Chowdary	M.Tech.	Associate Professor	Advanced Electronics	34	--
3	Ms. I. Hemalatha	M.Tech.	Associate Professor	Instrumentation and Control Systems	16	--
4	Mr. K.Lakshmi Narayana	M.Tech.	Sr. Assistant Professor	Image Processing	14	--
5	Mr. V.Veerraju	M.Tech.	Assistant Professor	Digital Systems and Computer Electronics	15	--
6	Mr. R.Satish	M.E.	Assistant Professor	Electronic Instrumentation	11	--
7	Mr. CH.Ravi Kumar	M.Tech.	Assistant Professor	Communication	13	--
8	Mr. CH.Madhava Rao	M.Tech.	Assistant Professor	Optical Fiber Communication	15	--
9	Mr. H.Sudhakar	M.Tech.	Assistant Professor	Control Engineering	8	--
10	Mr. D.Ajay Kumar	M.E.	Assistant Professor	VLSI System Design	7	--
11	Mr. P.Hareesh	M.Tech.	Assistant Professor	VLSI Design	6	--
12	Ms. K.J.Silva Lorraine	M.E.	Assistant Professor	Communication Engineering	5	--
13	Mr. Ch.Jaya Prakash	M.Tech.	Assistant Professor	VLSI System Design	8	--
14	Mr. V.Surendra Babu	M.Tech.	Assistant Professor	VLSI and Embedded System	6	--
15	Mr. K.Miranji	M.Tech, MBA.	Assistant	Embedded	7	--

			Professor	Systems		
16	Mrs. G.Srilatha	M.Tech.	Assistant Professor	Communication Systems	5	--
17	Mrs. N.Lavanya	M.Tech.	Assistant Professor	Digital Electronics and communication Systems	5	--
18	Ms. V.Vamsi Sudheera	M.Tech.	Assistant Professor	Communication Systems	5	--
19	Mr. N.Narendra Kumar	M.Tech.	Assistant Professor	Communication Systems	10	--
20	Mrs. P.Sasi Bala	M.Tech.	Assistant Professor	Digital Electronics and communication Systems	10	--
21	Mr. A.Ram Kumar	M.Tech.	Assistant Professor	VLSI System Design	4	--
22	Mr. R.Trinadh	M.Tech.	Assistant Professor	Embedded Systems	5	--
23	Mr. M.N.Venkatesh Babu.S	M.Tech.	Assistant Professor	Communication Systems	3	--
24	Mr. K.Chandra sekhar	M.Tech.	Assistant Professor	Communication Systems	3	--
25	Mrs. Sk.Rahimmunisha	M.Tech.	Assistant Professor	VLSI System Design	9	--
26	Mrs. P.Sowmitri	M.Tech.	Assistant Professor	VLSI System Design	4	--
27	Mr. M.Vamsi Krishna Allu	M.Tech.	Assistant Professor	VLSI Design	11	--
28	Mrs. K.Lavanya	M.Tech.	Assistant Professor	VLSI Design	11	--
29	Mrs. M.Greeshma	M.Tech.	Assistant Professor	VLSI Design	11	--
30	Mrs. V.Swathi	M.Tech.	Assistant Professor	Embedded Systems	4	--
31	Ms. Y.Hima Bindu	M.Tech.	Assistant Professor	Communication Systems	2	--
32	Mrs. N.Suneetha	M.Tech.	Assistant Professor	Digital Electronics and communication Systems	12	--

33	Mr. G.Vishnu Vardhan	M.Tech.	Assistant Professor	Communication Engineering	1	--
34	Mrs. N.Swathi	M.Tech.	Assistant Professor	Digital Electronics & communication Systems	1	--
35	Ms. J.Sireesha	M.Tech.	Assistant Professor	Communication Engineering & signal Processing	1	--
36	Mr. M.Ravi Kumar	M.E.	Assistant Professor	Electronic Instrumentation	14	--
37	Mr. P. Srinivasulu	M.Tech.	Assistant Professor	Instrumentation and Control Systems	5	--
38	Mr. Y.B.N.V. Bhaskar	M.Tech.	Assistant Professor	VLSI&ES	4	--
39	Mr. V.Ranjith Kumar	M.Tech.	Assistant Professor	Electronic instrumentation	4	--
40	Mrs. K.Radha	M.Tech.	Assistant Professor	Digital Electronics and communication Systems	8	--
41	Ms. P.Bhavya	B.Tech.	Assistant Professor	ECE	0	--
42	Mr. T.Anil Kumar	B.Tech.	Assistant Professor	ECE	0	--
43	Ms. A.Pavani	B.Tech.	Assistant Professor	ECE	0	--

11. List of senior visiting faculty :

S. No.	Name	Designation	Industry/Institution Address
1	Dr. S.Varadaraju	Professor	S.V. University,Tirupati
2	Dr. P.Rajesh kumar	Professor	HOD, Andhra University, Visakhapatnam
3	Prof. P.Mallikarjuna rao	Professor	Andhra University, Visakhapatnam
4	Prof.S.Santha Kumari	Associate Professor	Andhra University, Visakhapatnam
5	Dr.V. Venkata Ratnam	Professor,	KL University, Vijayawada

		R&D Head	
6	Prof. D.V.R Mohan	Professor	SRKRE college, Bhimavaram
7	Dr. M.S Prasad	Professor	KL University, Vijayawada
8	Dr.M. SivaGangaPrasad	Professor	KL University, Vijayawada
9	Dr. G.N Swamy	Professor	V.R Siddartha Engineering College, Vijayawada
10	Dr. B.V.S.S.N Raju	Professor	SRKREC, Bhimavaram
11	Sri G.Venkata Hari Prasad	Professor	Andhra Loyala Institute of Engineering and Technology, Vijayawada
12	Sri P.Venkateswara Rao	Professor	Guntur Engineering College , Guntur
13	Dr. P.S Kumar	Associate Professor	SVEC for women, Bhimavaram
14	Dr.Ch.Subba Rao	Associate Professor	PVP Sidhardha Institute of Technology, Vijayawada
15	Dr.T.Sudheer Kumar	Associate Professor	SVECW, Vishupur,Bhimavaram
16	Sri B. Enosh Androsh	Associate Professor	Audisankara Engineering College, Nellore

P.Venkateswara Rao, Professor Guntur Engineering College

Dr.G.N.Swamy, Professor,V.R.Siddartha

Dr.S.Varadarajan, Professor, S.V.University, Tirupati delivering lecture

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : Nil

13. Student -Teacher Ratio (programme wise) :

Programme	Students	Existing Faculty	Ratio
UG	540	36	15:1
PG	84	7	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
06	06	04	04

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG :

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	--	01	--	01
M.E./M.Tech.	--	02	37	39
B.E./B.Tech.	--	--	03	03

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Name of the faculty	Title of the Project	Funding Agency	Sanctioned Amount (Rs.)	Status
Prof. M. Srinivasa Rao	MODROBS Modernization of Digital Communications Lab	AICTE	11,20,000	Completed

18. Research Centre/ facility recognized by the University: No

19. Publications :

- Number of publications per faculty**:** 2.23
- Number of publications in peer reviewed journals (National /International) by faculty and students: 96

S.No.	Name of the Faculty	No. of Papers in National Journals	No. of Papers in International Journals	Total
1	Dr. T. Venkateswara Rao	5	8	13
2	Mr. K.V.R.Chowdary	--	1	1
3	Ms. I.Hemalatha	--	5	5
4	Mr. K.Lakshmi Narayana	--	4	4
5	Mr. R.Satish	--	4	4
6	Mr. P.Hareesh	--	6	6
7	Mr. Ch.Jaya Prakash	--	4	4
8	Mrs. G.Srilatha	--	2	2
9	Mrs. P.Sasi Bala	--	9	9
10	Mr. A.Ram Kumar	--	2	2
11	Mr. K.Chandra sekhar	--	3	3
12	Mrs. Sk.Rahimunnisha	--	5	5
13	Mrs. P.Sowmithri	--	1	1
14	Mr. Ch.Ravi kumar	1	3	4
15	Mr. Ch.Madava Rao	--	1	1
16	Mr. H.Sudhakar	--	1	1
17	Mr. D.Ajay Kumar	--	2	2
18	Ms. K.J.S.Lorraine	--	1	1
19	Mr. M.Narendra Kumar	--	1	1
20	Mr. A.Vamsi Krishna	--	1	1
21	Mrs. M.Greeshma	--	1	1
22	Mr. R.Trinath	--	2	2
23	Mr. K.Miranji	1	5	6
24	Ms. V.Vamsi sudheera	1	1	2
25	Mr. S.M.N.Venkatesh Babu	--	1	1
26	Mrs. N.Suneetha	--	2	2
27	Mrs. V.Swathi	--	2	2
28	Mrs. K.Radha	--	10	10
Total		**8**	**88**	**96**

- 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.): 70

- Monographs: Nil
- Chapters in Books**:** Nil
- Books Edited: Nil
- Books with ISBN numbers with details of publishers: Nil
- Citation Index: Nil
- SNIP: Nil
- SJR: Nil
- Impact Factor : Min: 0.49 Max: 6.14
- h-index: Nil

20. Areas of consultancy & income generated: Nil

21. Faculty as members in :

- National committees: 02

S.No.	Name of the faculty	Description
1	Dr.T.Venkateswararao	1. Chairman IETE, Vijayawada Local centre. 2. Executive Member AP State centre IE(I) AP 3. Electronics and Telecommunications Engineering Division Board member, IEI
2	Mr. K.V.R.Chowdary	Board of studies member in Sir C R R Degree college

- International committees: Nil
- Editorial boards:

S.No.	Name of the Faculty	Description
1	Dr.T.Venkateswara rao	ACES Journal, Reviewer

22. Student Projects:

Academic Year	Course/ Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG	80	20
	PG (CS)	94.11	5.88
	PG(VLSI)	100	0

2014-15	UG	80	20
	PG (CS)	88.88	11.11
	PG (VLSI)	100	0
2013-14	UG	100	0
	PG (CS)	100	0
	PG (VLSI)	88.23	11.76

23. Awards/ recognitions received by faculty and students :

S.No.	Name of the Faculty / Student	Award	Year
1	Mr. G.Venkata Satyanarayana	Prof T.Venugopal Rao prize(Best outgoing student)	2012-13
2	Mr. B.RajaSekhar	Jasti Sriramulu and Satyavathi Memorial scholarship	2012-13

24. List of eminent academicians and scientists / Visitors to the department :

S. No.	Name	Designation	Industry / Institution Address
1	Dr. K.Solomon Raju	Principal Scientist	CSIR-CEERI, Pilani, Rajasthan
2	Sri P.Kranti Kumar	CEO	Q-Technologies, Vijayawada
3	Sri M.Raja ram	General Manager	Hi-Tech Automobiles, Vijayawada
4	Sri Richard King	Chief Executive	TCS
5	Sri R.Durga Prasad	AE, RF Planning	Bharati Airtel Limited, Bangalore
6	Sri Y.V S Murthy	Research Scholar	Dept of CSE NIT(surat)
7	Sri P.Raju	SDE	BSNL, Vijayawada
8	Sri N.Vital Durga Prasad	DGM	BSNL, Eluru
9	Sri K.Siva Prasad	AGM	BSNL, Eluru

Dr.K.Solomon Raju, Principal Scientist, CSIR-CEERI, Pilani, Rajasthan

25. Seminars/ conferences/ workshops organized & the source of funding:

S.No.	Type	Academic Year	Date	Name of the Seminars / conferences/ workshops	Sources of Funds
1	National	2016-17	19th &20th Aug2016	MATLAB for Engineering Applications	Institution
2		2016-17	5th & 6th Aug2016	IC design flow using mentor graphics tool	Institution
3		2016-17	11th to 13th July 2016	Communication systems Measurement setup & testing	Institution
4		2015-16	3rd &4th May2016	HFSS faculty and student development session	Institution
5		2014-15	1st March 2015	PLC Programming and SCADA	Institution
6		2013-14	24th & 25th Jan 2014	NCRRECE	Institution

26. Student profile programme/ course wise:

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	176	105	71	90.73

	2014-15	--	174	93	81	71.27
	2013-14	--	143	71	72	79.41
	2012-13	--	180	110	70	64.51
M.Tech. (CS)	2015-16	--	11	3	8	54.54
	2014-15	--	17	4	13	100.00
	2013-14	--	18	10	8	100.00
	2012-13	--	20	15	5	92.00
M.Tech. (VLSI)	2015-16	--	11	6	5	54.54
	2014-15	--	13	7	6	100.00
	2013-14	--	17	10	7	100.00
	2012-13	--	17	11	6	100.00

27. Diversity of Students:

Name of the course	Academic Year	% of Students from same state	% of Students from other state	% of Students from abroad
B.Tech.	2015-16	100.00	0.00	0.00
	2014-15	99.04	0.95	0.00
	2013-14	99.41	0.58	0.00
	2012-13	99.03	0.96	0.00
M.Tech.	2015-16	100.00	0.00	0.00
	2014-15	100.00	0.00	0.00
	2013-14	100.00	0.00	0.00
	2012-13	100.00	0.00	0.00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence service etc., :

Examination	2015-16	2014-15	2013-14	2012-13
GATE	08	20	15	25
GRE	10	15	17	--
IELTS	--	--	--	--
Others	--	--	--	1

29. Student Progression:

Student Progression	2015-16(%)	2014-15(%)	2013-14(%)	2012-13(%)
UG to PG	2.8	11.49	17.48	17.22
PG to Ph.D.	--	--	--	--
Campus	33.52	26.43	13.00	7.22

Other than Campus	10.22	22.98	27.97	23.88
Entrepreneurship/ self-employment	0.56	--	--	0.55

30. Details of Infrastructural facilities :

a) Library

- Name : Electronics and Communication Engineering Department library
- Area: 43.47 sq. mts.
- No. of Volumes: 1366
- No. of Titles: 491

b) Internet facilities for Staff & Students

- Provided with 120 Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility

- 01 – Lecture Hall 15
- In addition to that, Projector, Laptop & OHPs are available in the department.

d) Laboratories

Name of the Laboratory	Area (sq.mts.)	Investment(Rs.)
EDC Lab-1	157.93	6,09,102
EDC Lab-2	111.48	9,14,322
AEC,LIC,PDC Lab	157.93	9,89,841
DIC Lab	87.51	2,87,827
MPA Lab	87.51	9,85,028
Communication Lab	157.93	24,05,933
MWE Lab	157.93	17,38,057
DSP Lab	87.51	59,67,703
VLSI lab	46.45	12,97,363
Total		**1,51,95,176**

31. Number of students receiving financial assistance from college, university, government or other agencies:

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	482	462	426	348

32. Details on student enrichment programmes (special lectures / workshops / seminar)with external experts:

S.No.	Name of the Expert	Date	Topic
1	Sri P.Chandra Shekar Mercedes Benz R&D, North America	06th Jan 2016	Electronic Applications in Automotive Industries
2	Dr.K Solomon Raju, Principal Scientist ,CSIR – CEERI,	06th Jan 2015	Wireless sensor network design by FPGA
3	Sri P.Kranthi Kumar, Sr. Quetechnologies, Vijayawada	5th to 12th Feb 2015	PCB designing and testing
4	Sri J.Rajaram, Hi Tech Automation, Vijayawada	26th to 28 Feb 2015	PLC Programming and Applications
5	Sri Richard King, TCS	21th Aug 2015	Employability and Technology Trends
6	Sri R Durga Prasad, AE,RF (Plan) Bharathi Airtel Ltd Banguluru	1st Oct 2015	Exploring you
7	Sri R Durga Prasad, AE,RF (Plan) Bharathi Airtel Ltd Banguluru	1st Oct 2015	An overview of GSM UMTS and evaluation of LTE
8	Sri YV Srinivasa Murthy,(NIT Surathkal, Manglore)	16th Dec 2015	Fundamentals of Speech Processing and its Applications using MATLAB Toolbox
9	Sri P.Raju SDE,BSNL, Vijayawada	31st Dec 2015	A Seminar on Latest Telecom Trends

Mr.P.Kranthi Kumar, Sr.Quetechnologies demonstrating "PCB designing and testing"

Mr.R.Durga Prasad AE,RF(Plan) Bharathi Airtel Ltd.,Bengaluru delivering lecture

33. Teaching methods adopted to improve student learning:

- Lectures
- Tutorials
- Video lectures
- Seminars by the Students
- Assignments and Projects
- Online learning
- Experiments

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Organized various Blood Donation camps to collect blood from the students.
- Voluntary Blood donation by the students throughout the year at different hospitals in Eluru in emergency cases.
- Helping students at physically handicapped schools by donating books and food materials
- Helping leprosy patients in Eluru by donating clothes and medicines
- Conducting educational events at various rural schools
- Contribution of one day salary of the staff to government of Andhra Pradesh relief fund during Hudhud cyclone.
- Green Revolution programs in the campus by plantation Contribute students and faculty in "Swacha Bhararth" Program

35. SWOC analysis of the department and Future plans:

STRENGTHS:

- The Department of ECE can boast of near perfect academic discipline. There has been no disruption in the Academic Calendar due to disturbances that institutions of higher learning generally experience in India.
- The Department of ECE has a dedicated faculty, highly efficient support staff, and a team of members who are available on the campus round the clock and take care of all aspects of the campus, the academic and the personal.
- The number of publications by the faculty members in the last two years has been commendable.
- The performance of the students of the Department of ECE in the national level competitive and entrance examinations like NET, SET, GATE, GRE. ILETS etc. has been excellent.
- The infrastructural support offered by the Department of ECE to students can be compare to the best in this part of the state. The teacher-student ratio, which is perhaps unparalleled in the state, makes it possible for teachers to successfully address individual need

of the students.

- The college a reputed institution of higher learning and this makes it possible to get a great deal of support and co-operation from other institutions of higher learning as well as industrial houses, formally and informally.
- The Department of ECE has an active alumni association which works in close co-operation with the college administration. It offers scholarship to the existing as well as passed out students. It also offers medical help to the existing students and needy people belonging to the neighborhood.
- The Department of ECE receives active co-operation from the parent university (Andhra University). They have been of great help in running the Department of ECE by offering their expertise in establishing the administrative and academic set-up in the post-autonomy period

WEAKNESSES:

- The socio-economic background of many of the students (some of them are first and second generation learners) admitted in the College is responsible for poor language competence (both in their mother tongue as well as English). This leads to an unsatisfactory level of comprehension and communication, particularly in the first two semesters.
- The College has not been able to enter into either faculty exchange or student exchange programmes due to structural and governmental policy limitations. The inability to implement the credit transfer systems (CTS) has also hindered the student exchange programme.
- There is a lack of advanced technologies for the teacher trainees to train skills in special children. Proposal has been forwarded by the head of the Department to the management for implementation of new technologies.
- There is a need to improve facilities to the students both in academic and co-curricular activities.

OPPORTUNITIES:

- The level of academic excellence which the College has acquired makes it possible for our students to get entry into institutes of global repute. The College has to devise mechanisms for translating this potential into a reality.
- The new learning of the age requires greater proficiency in soft skills among students. The College has the necessary technical and infrastructural resources to take this to a higher level.
- The vision of the College makes it imperative to engage in socially relevant programmes such as organizing voluntary blood donation camps, AIDS awareness programmes, and disaster management

skills. The College with its resources and networking can ensure students' greater participation in these activities.

- The College possesses the academic and financial resources to publish peer reviewed research journals. The College is poised to take the initiative in this regard.
- Students have the opportunities in participating training programmes and workshops and seminars conducted elsewhere.
- CRT programmes are conducted by the institution including the faculties and experts from outside to update knowledge

CHALLENGES:

- Keeping pace with the rapid changes in higher education
- Sustaining quality along with access
- Providing resources for marginalized students
- Generation of resources for up gradation of infrastructure
- To start research activities for the development of the faculty members with available facilities in collaboration with nearby Universities and research institutes.

FUTURE PLANS:

- To strengthen the industry - institution interaction and organizing National and International conferences, workshops.
- To provide "Earn by Learn" opportunities to students by establishing an incubation centre and full-fledged advanced research lab and to take up R & D projects from funding agencies like DST,UGC and AICTE.

PHOTO GALLERY

Dr.M.Chakravarthy, Scientist 'G', DLRL, Hyd. and Mr.R.Rajadurai, Lead Engineer, Innovent Engineering Solutions Pvt.Ltd. are delivering lectures during workshop on "3D Modeling of Electromagnetic Systems using ANSYS-RF Tools"

Dr.K.Murali Krishna, Professor & HOD,Dept.of ECE, ANITS addressing the gathering during workshop on "MATLAB for Engineering Applications"

Mr.Pavan Vernekar, TRIDENT TECH Labs Pvt., Ltd. delivering lecture during work shop on "IC Design Flow using Mentor Graphics Tools"

Fresher's Day 2016 Swatch Bharat programme

EVALUATION REPORT OF THE IT DEPARTMENT

1. **Name of the department:** Information Technology
2. **Year of Establishment :** 2000
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**
   - UG - B.Tech. (Information Technology)
4. **Name of Interdisciplinary courses & the departments/units involved:**

S.No.	Department involved	Year/ Semester	Name of the Interdisciplinary Course	Programme
1	EEE	II/I	Elements of Electrical Engineering	B.Tech.
2	ECE	II/I	Electronics	
3	FED	II/I	Probability Statistics and Queuing Theory	
4	FED	II/II	Environmental Studies	
5	ECE	II/II	Microprocessors	
6	FED	III/II	Operation Research	
7	MBA	IV/I	Management Principles	

5. **Annual/ semester/ choice based credit system (programme wise):**

   Semester System:
   - B.Tech.- Choice Based Credit System

6. **Participation of the department in the courses offered by other departments:**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	Computer Programming and Numerical Methods	I/I, I/II	FED
2		Data structures	II/I, III/II	ECE

7. **Courses in collaboration with other universities, industries, foreign institutions, etc., :**

- An MOU agreement with APSSDC and NASSCOM to deliver cyber security, data analytics courses to IT Students in the year 2015.
- Live projects by final year students with technical support from APSSDC over the past two years.

8. **Details of courses/ programmes discontinued (if any) with reasons:** Nil

9. **Number of Teaching posts :**

Name of the Post	Sanctioned	Filled
Professors	2	1
Associate Professors	4	0
Assistant Professors	18	23
Total	**24**	**24**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years
1	Dr. S. KrishnaRao	Ph.D.	Professor & HOD	CSE	19	2
2	Mrs. T.S. Nagamani	M.Tech.	Assistant Professor	CSE	12	--
3	Mr. N. Prasad	M.Tech.	Assistant Professor	CSE	14	--
4	Mr. Sk. Meeravali	M.Tech.	Assistant Professor	CN	6	--
5	Mr. A.M.K. KannaBabu	M.Tech.	Assistant Professor	SE	11	--
6	Mrs. G. Krishna Veni	M.Tech.	Assistant Professor	CSE	10	--
7	Mr. K.	M.Tech.	Assistant	IT	8	--

	Purna Prakash		Professor			
8	Mr. K. Lakshmaji	M.Tech.	Assistant Professor	CSE	6	--
9	Mr. D. Srinivasa Rao	M.Tech.	Assistant Professor	CSE	4	--
10	Mrs. N.V.S. K. Vijaya Lakshmi .K	M.Tech.	Assistant Professor	SE	5	--
11	Mrs. J. Malathi	M.Tech.	Assistant Professor	SE	5	--
12	Mr. G. Vihari	M.Tech.	Assistant Professor	IT	3	--
13	Mr. P. Ramaiah Chowdary	M.Tech.	Assistant Professor	SE	3	--
14	Mr. K. Satyanarayana	M.E.	Assistant Professor	CSE	8	--
15	Mrs. B. Lalitha Bhavani	M.Tech.	Assistant Professor	CSE	5	--
16	Mr. G. Pavan	M.Tech.	Assistant Professor	SE	2	--
17	Mrs. N. Sameera	M.Tech.	Assistant Professor	CST	2	--
18	Mr. E. Bala Krishna Manash	M.Tech.	Assistant Professor	CST	5	--
19	Mr. V. Gopinath	M.Tech.	Assistant Professor	CSE	2	--
20	Mr. P. Rajendhra Kumar	M.Tech.	Assistant Professor	CSE	3	--
21	Mr. Challa Yallamanda	M.Tech.	Assistant Professor	CSE	4	--
22	Mr. M. Madhava Rao	M.Tech.	Assistant Professor	CSE	0	--
23	Mr. M. Sudhakar	B.Tech.	Assistant Professor	IT	0	--
24	Mr. J.V. Durga Rao	B.Tech.	Assistant Professor	CSE	0	--

11. List of senior visiting faculty :

S.No.	Name	Designation	Industry/Institution Address
1	Dr.P.V.G.D. Prasad Reddy	Professor & HOD	College of Engineering, Andhra University, Visakhapatanam
2	Dr.M.S. Prasad Babu	Professor & Vice Principal	
3	Dr.P. Srinivasa Rao	Professor, CSSE Department	
4	Dr.V.Valli Kumari	Professor & Vice Principal	
5	Dr.M. Shasi	Professor, CSSE Department	
6	Dr.K.Venkata Rao	Professor, CSSE Department	
7	Dr.P.Suresh Varma	Professor & Dean	Adikavi Nannayya University
8	Dr.J.V.R. Murthy	Professor, Department of CSE	JNTU College of Engineering, Kakinada

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : Nil

13. Student -Teacher Ratio (programme wise) :

Programme	Students	Existing Faculty	Ratio
UG	360	24	15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
02	02	02	02

15. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D/ M.Phil / PG. :

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	01	00	00	01
M.E./M.Tech.	--	00	21	21
B.E./B.Tech.	--	--	02	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :

Name of the Faculty	Title of the Project	Funding Agency	Sanctioned Amount (Rs.)	Status
Dr. S Krishna Rao	National Conference on Data Mining and Business Intelligence Systems	AICTE	1,00,000	Completed

18. Research Centre/ facility recognized by the University : No

19. Publications :

- Number of publications per faculty: 2.5
- Number of publications in peer reviewed journals (National /International) by faculty and students : 60

S.No.	Name of the Faculty	No. of Papers in National Journals	No. of Papers in International Journals	Total
1	Dr. S. Krishna Rao	1	16	17
2	Mr. N. Prasad	--	01	01
3	Mrs. T.S Nagamani	--	03	03
4	Mr. A.M.K.Kanna Babu	--	03	03
5	Mrs. G.Krishna Veni	--	03	03
6	Mr. Sk. Meeravali	--	01	01
7	Mr. K.Purna Prakash	--	03	03
8	Mr. K.Lakshmaji	--	01	01
9	Mrs. N.V.S.K.V. Lakshmi .K	--	03	03
10	Mrs. J. Malathi	--	03	03
11	Mr. D. Srinivasa rao	--	02	02
12	Mr. G.Vihari	--	02	02
13	Mr. P. Ramaiah Chowdary	--	02	02
14	Mr. K. Satyanarayana	--	04	04
15	Mrs. B. Lalitha Bhavani	--	03	03
16	Mr. G.Pavan	--	02	02
17	Mrs. N.Sameera	--	01	01
18	Mr. E.Bala Krishna Manash	--	01	01
19	Mr. V. Gopinath	--	02	02
20	Mr. halla Yallamanda	--	02	02
21	Mr. P. Rajendhra kumar	--	01	01
Total		**01**	**59**	**60**

- 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.) : 23
- Monographs: Nil
- Chapters in Books: 1

S.No.	Name of the Faculty	Name of the Book	ISBN/ISSN	Publisher
1	Mr. K.Satyanarayana	Application of Computational Intelligence to Biology	ISBN 978-981-10-0307-5	SPRINGER

- Books Edited : Nil
- Books with ISBN numbers with details of publishers: Nil
- Citation Index: 4
- SNIP: Nil
- SJR: Nil
- Impact Factor : Min: 0.2 Max: 4.192
- h-index : 1

20. Areas of consultancy & income generated: Nil

21. Faculty as members in :

- National committees: Nil
- International committees: Nil
- Editorial boards :

S.No.	Name of the Faculty	Description
1	Dr. S. Krishna Rao	International Journal of advances in Computer Science and its Applications
2		International Journal of advances in Computer Networks and its Security
3		International Journal of advances in Artificial Intelligence and Neural Networks
4		International Journal of Computer Science and Mechatronics
5		BOS Member in Andhra University Visakhapatnam, SRKR Engineering College Bhimavaram, Adikavi Nannaya University Rajahmundry and ANITS Visakhapatnam.

22. Student Projects :

Academic Year	Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG	95	5
2014-15	UG	85	15
2013-14	UG	95	5

23. Awards/ recognitions received by faculty and students :

S.No.	Name of the Faculty/ Student	Award	Year
1	Ms. M. Naga Lakshmi	First Rank from Andhra University (B.Tech., IT)	2013-14
2	Ms. B. Padmaja	University Topper with 9.17 CGPA	2012-13

24. List of eminent academicians and scientists / Visitors to the department. :

S.No.	Name	Designation	Industry/Institution Address
1	Dr. K. Lakshmi Narayana	Founder & Director APSSDC, Retd.IAS	APSSDC
2	Dr .P.V.G.D. Prasad Reddy	Professor	CSSE Dept, College of Engineering, Andhra University
3	Dr. B.Suresh	Joint Director	STPI-Kakinada
4	Sri Ajay	Senior HR	TCS
5	Sri D. Rama Krishna	CEO	Efftronics Pvt..Ltd.
6	Dr. J. Anand Chandulal	Professor	GITAM University, Visakhapatanam
7	Dr. P.M.Valli	Professor	
8	Dr. K.Tammi Reddy	Professor	
9	Dr. P. Srinivasa Rao	Professor	MVGR College of Engg,Vizayanagaram
10	Dr. N. Gnaneswara Rao	Professor & HOD ,CSE Department	Vignan University
11	Sri Gogula Gupta Srinivas	CEO	OSI Technologies, Hyderabad
12	Sri Richard King	Academic Relationship Manager	TCS, Hyderabad
13	Sri K.Ramalinga Raju	Senior Technical Manager	H.P Computers
14	Sri Y.V. Srinivasa Murthy	Research Scholar	Department of CSE, NIT, Suratkal

25. Seminars/ conferences/ workshops organised & the source of funding :

S.No.	Type	Academic Year	Date	Name of the Seminars /conferences/ workshops	Sources of Funds
1	National	2015-16	14th December 2015 to 31st March 2016	APSSDC training for final year students on "Advanced Web Application Development with Java" under Project Skill Training Program.	Institution
2			14th October 2015 to 12th December 2015	APSSDC FDP training on "Advanced Web Application Development with Java "	Institution
3			18th to 20th February 2016	Guest Lecture on Phython Shell Scripting	Institution
4			23rd December 2015	One day FDP on IBM-Blue mix Enablement Session	Institution

5			16th December 2015	One day Workshop on Speech Processing and its Applications using MATLAB Tool box	Institution
6			4th November 2015	Workshop on IBM Blue-mix Enablement Session	Institution
7			08th to 20th June 2015	Workshop on Android Mobile applications Development by APSSDC	Institution
8	National	2014-15	21st to 23rd July 2014	Workshop on Android applications	Institution
9	National	2013-14	07th &8th March 2014	National Workshop on Data Mining and Business Intelligence	Institution
10			12th & 13th March 2013	National workshop on Data warehousing & Informatica	Institution
11			27th & 28th December 2013	National Conference on Research Issues and Recent Trends in Computer Science & Information Technology (NCRRCSIT-2013)	Institution
12	National	2012-13	01st & 2nd August 2012	Workshop on Web Design	Institution

26. Student profile programme/ course wise :

Name of the course/ programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	107	52	55	66.37
	2014-15	--	45	24	21	73.17
	2013-14	--	60	29	31	60.34
	2012-13	--	60	27	33	45.00

27. Diversity of Students :

Name of the course	Academic Year	% of students from the same state	% of students from the other state	% of students from abroad
B. Tech.	2015-16	99.12	0.88	0
	2014-15	100	0	0
	2013-14	97.44	2.56	0
	2012-13	99.07	0.93	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense service etc., :

Examination	2015-16	2014-15	2013-14	2012-13
GATE	02	01	03	00
GRE	06	07	05	01
IELTS	00	00	00	00

29. Student Progression :

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
UG to PG	8.42	19.5	13.79	1.66
PG to Ph.D.	0	0	0	0
Campus	27.36	17.07	1.72	1.66
Other than Campus	10.52	12.19	20.68	30.00
Entrepreneurship/ self-employment	0	2.43	0	1.66

30. Details of Infrastructural facilities :

a) Library

- Name : Information Technology Department Library
- Area : 30.7 sq.mts.
- No.of Volumes : 1555
- No.of Titles : 510

b) Internet facilities for Staff & Students

- Provided with 120 Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin PC with Internet facility is provided.

c) Class rooms with ICT facility (Information and Communication Technology with LCD)

- 01-Lecture Hall 44
- In addition to that, Projector, laptop, PA system and OHP are available in the department.

d) Laboratories

Name of the Laboratory	Area (sq.mts.)	Investment (Rs.)
Computer Lab-1	175	26,67,219
Computer Lab-2	168	25,91,607
Computer Lab-3	168	20,06,909
	Total	**72,65,735**

31. Number of students receiving financial assistance from college, university, government or other agencies :

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	148	111	124	95

32. Details on student enrichment programmes (special lectures / workshops / seminar)with external experts :

S.No.	Name of the Expert	Date	Topic
1	Dr B.Suresh, Joint Director, Software Technology park of India, Kakinada	16th March 2016	Guest Lecture on "Software Development and Career Prospects"
2	Dr K.Venkata Rao, Professor, CSSE dept, Andhra University, Visakhapatnam	4th March 2016	Guest Lecture on "Applications of Cloud Computing"
3	Dr K Lakshmi Narayana (Retd.IAS) Founder, Director, APSSDC	12th December 2015	Guest lecture on "Skill Development"
4	Sri Thomas oza, Software Engineer, In Signia Labs	21st to 23rd July 2014	3-Day Work Shop on "Android Applications"
5	Sri G.Gangadhar, Dist. Information Officer	22nd March 2014	Guest Lecture on "Opportunities in IT Industry"
6	Dr. P. Srinivasa Rao, Professor, Andhra University Dr. J.V.R. Murthy, Professor, JNTU college of Engineering Dr. M.Shashi, Professor, Andhra University Dr. V.Valli kumari	7th & 8th March 2014	2-Day National Work Shop on "Data Mining and Business Intelligence"

	Professor, Andhra University Dr. K.Thammi Reddy, Professor, GITAM University		
7	Sri T. Venu	12th to 14th August,2013	3-Day Work Shop on" IBM Rational Rose, Rational Architect and Rational Robot"
8	Dr .J.A. Chandulal, Professor, GITAM University	4th July-2013	Guest lecture on "Personality Development"
9	Sri K.Hemanth Kumar	12th & 13th March,2013	2-Day Work Shop on "Data warehousing & Informatica"
10	Dr.J.A Chandulal and Prof. P.M.Valli	12th December, 2012	Guest lecture on "Creative and Innovative skills"
11	Sri K. Srinivas Rao	1st & 2nd August,2012	2-Day Work Shop on "Web Design"

33. Teaching methods adopted to improve student learning :

- Enhancing knowledge of students by allowing them to attend NPTEL and WEBINAR Online lectures.
- Conducting tutorial classes once in a week for each subject.
- Motivating the students to participate in classroom seminars, group discussions, technical quizzes and mock interviews.
- Presuming to access journals, reference materials and guide them to understand the current trends in the field of their choice.
- Creating the awareness on current trends with the help of field trips.
- Training the students with the help of case studies.
- Motivating the students towards Social Responsibilities
- Creating the awareness on Current trends through Field Trips.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

- Organized various Blood Donation camps to collect blood from the students for every three months. Voluntary Blood donation by the students throughout the year at different hospitals in Eluru in emergency cases.
- Every Year Students of IT Department conduct Teachers Day.
- Every Year Students of IT Department conduct Engineers Day.
- Contribution of one day salary of the staff to government of Andhra Pradesh relief fund during Hud-hud cyclone.

35. SWOC analysis of the department and Future plans :

STRENGTHS:

- Highly qualified and experienced Teaching and Technical staff.

- Well equipped Laboratories with latest computing facilities.
- Exclusive Department Library with Digital and Manual facilities.
- Excellent results with good placements.
- Systematic monitoring of teaching-learning process by Student Counselling Committee.
- Active participation of alumni for career guidance and improvement.
- Conduction of Technical events through active professional bodies (CSI, ISTE).
- Commitment towards Social Responsibilities.
- Strong Alumni.

WEAKNESSES:

- Catching the phase of Rapid Change in I.T. Industry.
- Due to Rural background intake, students are lacking communication skills which make us spend more time in training them

OPPORTUNITIES:

- Opportunities to find research grants from industry and government agencies.
- Offer more online courses and Develop emerging programs on latest technologies.
- Perk up alumni interaction.
- Expose students to internships and collaboration programs.
- Availability of faculty with doctoral degree.

CHALLENGES:

- To fulfill the demand occurring in the competitive world.
- To wise competence of the students up to the level of market standards.
- To educate the girl students for economic independence

FUTURE PLANS:

- Department of Information Technology planning to start incubation centre in association with STPI, Kakinada.
- Planning to start an Internet of Things (IOT) lab in association with eSF Labs Ltd, Vijayawada.

PHOTO GALLERY

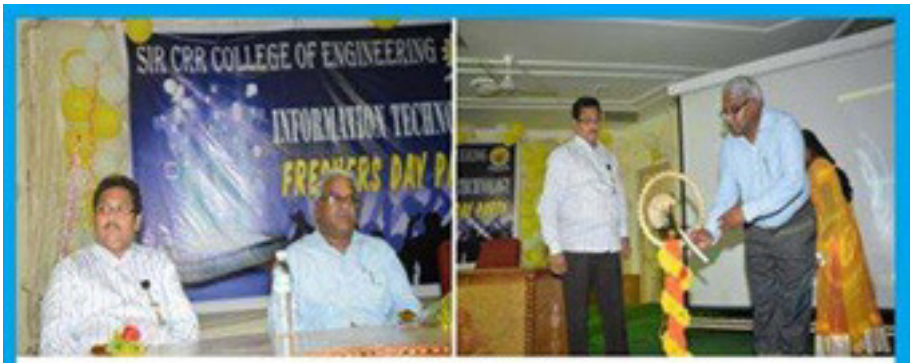
Guest Lecture on Software Development and Career prospects

Guest Lecture on Applications of Cloud Computing

ELITE 2016 Celebrations

Workshop on Fundamentals of Speech Processing and its Applications using MATLAB Toolbox

3-Day Workshop on Python Shell Script



Fresher's Day Celebrations

EVALUATION REPORT OF THE CIVIL DEPARTMENT

1. **Name of the department:** Civil Engineering
2. **Year of Establishment :** 2009
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
   - UG- B.Tech. (Civil Engineering)
4. **Name of Interdisciplinary courses & the departments/units involved:**

S.No.	Department involved	Year/Semester	Name of the Interdisciplinary Course	Programme
01	FED	II / I	Mathematics-IV	B.Tech.

5. **Annual/ semester/ choice based credit system (programme wise):**

   Semester System:

   - B.Tech.- Choice Based Credit System

6. **Participation of the department in the courses offered by other departments:** Nil

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:**

Name of the Post	Sanctioned	Filled
Professors	1	1
Associate Professors	2	1
Assistant Professors	9	10
Total	**12**	**12**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years
1	Mr. C Ramesh Dutt	M.Tech.	Associate Professor & HOD	Structural Engineering	5	--
2	Dr. R. Harinadha Babu	Ph.D.	Professor	Structural Engineering	5	--
3	Mr. M. Suresh	M.Tech.	Assistant Professor	Structural Engineering	4	--
4	Mr. K. Hemanth Kumar	M.Tech.	Assistant Professor	Structural Engineering	4	--
5	Ms. M. Saraswathi	B.Tech.	Assistant Professor	Civil Engineering	4	--
6	Mrs. P. Mallikadevi	B.Tech.	Assistant Professor	Civil Engineering	3	--
7	Mrs. P. Shalini Kumari	M.Tech.	Assistant Professor	Structural Engineering	2	--
8	Mr. K. Srinivasa Rao	M.Tech.	Assistant Professor	Structural Engineering	2	--
9	Mr. M. Chandra kanth	M.Tech.	Assistant Professor	Structural Engineering	2	--
10	Mr. N.S. Poorna chandra Rao	M.Tech.	Assistant Professor	Soil Mechanics & foundation Engineering	2	--
11	Mrs. K Dharani	M.Tech.	Assistant Professor	Structural Engineering	0	--
12	Mr. Abdul Moin	M.Tech.	Assistant Professor	Soil Mechanics & foundation Engineering	0	--

11. List of senior visiting faculty:

S.No.	Name	Designation	Industry/Institution Address
1	Dr.Ch. Raja Ram	Professor	IIIT, Hyderabad
2	Dr. P. Malleswara Rao	Professor & HOD	Andhra University College of Engineering, Visakhapatnam
3	Dr. D.S.R. Murthy	Professor & HOD	Andhra University College of Engineering, Visakhapatnam
4	Dr. K.Srinivasa Rao	Professor	Andhra University College of Engineering, Visakhapatnam
5	Dr. B.Pandu Ranga Rao	Professor & Dean	VR Siddhartha Engineering College, Vijayawada

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty** : Nil

13. **Student -Teacher Ratio (programme wise):**

Programme	Students	Existing Faculty	Ratio
UG	180	12	15:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
04	04	02	02

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG :**

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	01	00	00	01
M.E./M.Tech.	--	01	08	09
B.E./B.Tech.	--	--	02	02

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**:
    - National - 01

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

Name of the faculty	Title of the Project	Funding agency	Sanctioned Amount (Rs.)	Status
Dr. R. Harinadh Babu	Assessment of Drinking Water quality in upland area of West Godavari Dist.,	DST	22,24,960	Ongoing

18. **Research Centre/ facility recognized by the University:** No

19. **Publications:**

    - Number of publications per faculty: 1.33
    - Number of publications in peer reviewed journals (National /International) by faculty and students :16

S.No.	Name of the faculty	No. of Papers in National journals	No. of Papers in international journals	Total
1	Mr. C.Ramesh Dutt	--	4	4
2	Dr. R .Harinadh Babu	--	4	4
3	Mrs. P.Mallika Devi	--	1	1
4	Mr. K.Srinivasa Rao	--	2	2
5	Mr. M Chandrakanth	--	1	1
6	Mr. N Poorna Chandra Rao	--	1	1
7	Mr. K Ramesh	--	1	1

8	Ms. A.Satyaveni	--	1	1
9	Mr. G.V.A Pavan Kumar	--	1	1
Total				**16**

- 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.): 12
- Monographs: Nil
- Chapters in Books: Nil
- Books Edited: Nil
- Books with ISBN/ISSN numbers with details of publishers: Nil
- Citation Index: Min:2 Max:5
- SNIP: Nil
- SJR: Nil
- Impact Factor: Min: 1.75 Max: 3.56
- h-Index: Min:1 Max:3

20. **Areas of consultancy & income generated:**

S. No.	Name of the Consultancy	Tests Conducted	Amount (Rs.)
1	Civil Engineering Material Testing	Concrete Core Samples test of CC Road (Panchayat Raj Dept.)	1,500
		Water Sample test	2,500
2	Proof Check of Design	Proof Check of Court Building(R & B Dept.)	10,000
Total			**14,000**

21. **Faculty as members in:**

- National committees: Nil
- International committees: Nil
- Editorial boards: Nil

22. **Student Projects:**

Academic Year	Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	UG	88.40	11.59
2014-15	UG	91.52	8.47
2013-14	UG	92.30	7.69

23. Awards/ recognitions received by faculty and students :

S.No.	Name of the Faculty/ Student	Award	Year
1	Mr. K. Hemanth Kumar (Assistant Professor)	Neeru Pragathi(Best presentation)	2016
2	Mr.G.Gopal Kishore	Neeru Pragathi(Best Presentation)	2016
3	Ms. K.Sowmya	State Govt. Prathibha	2015

24. List of eminent academicians and scientists / Visitors to the department:

S.No.	Name	Designation	Industry/Institution Address
1	Dr. P Kumar R	Professor	IIIT, Hyderbad
2	Dr. S. Adishehu	Professor	Andhra University College of Engineering, Visakhapatnam
3	Dr. T. V Praveen Kumar	Professor	
4	Dr. G.V. Rama Rao	Professor	
5	Dr. Y.Abbulu	Professor	
6	Dr. K. Rajasekhar	Assistant Professor	
7	Sri P. Srimannarayana	Superintendent Engineer	S.E(R&B), Eluru
8	Sri K.L.Narasimham	Executive Engineer	APSIDC, Guntur
9	Dr A.C.S.V Prasad	Assistant Professor	SRKR, Bhimavaram

Dr. S. Adisheshu (AUCE) Sri P.Srimannarayana (S.E,R&B)

25. Seminars/ conferences/ workshops organised & the source of funding:

S.No.	Type	Academic Year	Date	Name of the seminars /conferences/ workshops	Sources of Funds
1	National	2015-16	02nd Mar 2016	Workshop on Planning Construction and estimation of highway bridges and pavements	Institution
2		2014-15	20th to 22nd Feb 2015	Workshop on RS & GIS	Institution
3		2013-14	21st Feb 2014	Seminar on Vehicular Traffic Management by using advanced equipment	Institution
4		2013-14	27th & 28th Dec-2013	NCRDEQCT	Institution

26. Student profile programme/ course wise:

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	72	53	19	68.11
	2014-15	--	72	52	20	52.54
	2013-14	--	72	55	17	30.76
	2012-13	--	72	54	18	39.06

27. Diversity of Students:

Name of the course	Academic Year	%of the students from the same state	%of the students from the other state	%of the students from abroad
B.Tech.	2015-16	100	0	0
	2014-15	100	0	0
	2013-14	98.50	1.50	0
	2012-13	98.55	1.45	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence service etc.,:

Examination	2015-16	2014-15	2013-14	2012-13
GATE	02	04	15	13
GRE	09	04	02	01
IELTS	02	01	--	--

29. Student Progression:

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
UG to PG	5.79	13.55	24.61	7.69
PG to Ph.D.	-	-	-	3.07
Campus	2.89	1.69	-	-
Other than Campus	4.34	30.5	38.46	66.15
Entrepreneurship/ self-employment	-	6.78	4.61	3.07

30. Details of Infrastructural facilities:

a) Library

- Name : Civil Engineering Department library
- Area: 24 sq. mts
- No.of Volumes: 382
- No.of Titles: 81

b) Internet facilities for Staff & Students

- Provided with 120 Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility

- 01 : Lecture Hall 28
- In addition to that Projector, Laptop & OHP are available in the department.

d) Laboratories

Name of the Laboratory	Area(sq.mts.)	Investment(Rs.)
Geo-Technical Engineering lab	126	6,37,164
Environmental Engineering lab	152	2,85,576
Transportation Engineering lab	91	2,21,843
Computer Applications in Civil Engineering Lab	134	17,78,178
Surveying lab	68	19,18,207
Concrete Technology lab	126	5,97,968
Total		**54,38,936**

31. **Number of students receiving financial assistance from college, university, government or other agencies :**

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	149	155	152	146

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts:**

S.No.	Name of the Expert	Date	Topic
1	Sri D. Srikanth, Senior Engineer, BSCPLIL, Hyderbad	02nd Mar 2016	Workshop on Planning Construction and estimation of highway bridges and pavements
2	Dr. K.V. Subba Raju, GRIET Hyderabad	25th Feb 2016	Seminar on success secrets for Engineering students
3	Sri Adithya. A.S, Sri Ram Reddy. T, Sri Abhiram. K, Sri Praveen.Ch, Sri Tirupathi.Ch, NIT, Warangal	20th to 22nd Feb 2015	Workshop on RS & GIS
4	Dr. Salma, St. Anna's College	27th Oct 2014	Seminar on Human Values
5	Sri K.L.Narasimham EE, APSIDC, Guntur	15th July 2014	Seminar on Drainage Water Irrigation
6	Sri Niranjan Vescio Director, Remote Sensing at ETEST Corporation United States	21st Feb 2014	Seminar on Vehicular Traffic Management by using advanced equipment
7	Dr. P.Malleswara Rao, Andhra University College of Engineering	27th Dec 2013	Special Lecture on water resource Engineering
8	Dr.Dileep Kumar, Dr.Raja Ram IIIT Hyderabad	27th Dec 2013	Workshop on Earth Quake Resistant Structures & Virtual Laboratory
9	Dr. Siva Ramaraju, SRKR College of Engineering	15th Sep 2012	Seminar on Irrigation Structures and types of irrigation

33. **Teaching methods adopted to improve student learning:**

- Power Point Presentation on prescribed topics
- Field exposure
- NPTEL Lectures
- Conducting Group Discussion among the students

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:**

- Plastic free campus
- Blood Donation Camp
- Swatch Bharath
- Vanam-Manam
- Students Donate Food & Clothes to Orphanages

35. SWOC analysis of the department and Future plans:

STRENGTHS:

- Qualified and dynamic teaching staff
- Provides sound scientific and technological knowledge for students
- Friendly environment with good and modern facilities, students have access to a host of engineering laboratories and facilities
- Adequate infrastructure
- Excellent team work among faculty and students
- Good performance of students in examination
- Revised curriculum of UG programme.

WEAKNESSES:

- Lack of Communication Skills and English Knowledge of Students Owing to their Socio-Economic Background hinders their Growth
- Lack of Infrastructure development in the vicinity reduces the students exposure to industry
- Quality of Incoming students
- In experienced Teaching faculty to train the student for further tests like GATE, GRE & TOEFL

OPPORTUNITES:

- Good infrastructure and well developed facilities shall improve status of the college
- With the availability of proper skilled staff & management; the reputation of college will improve and some reputed companies would definitely visit for the placement of students
- Improved campus placement.

CHALLENGES:

- To compete with the upcoming private universities
- Finding the well experienced teaching faculty and suitable technical supporting staff
- Providing better service and monitory benefits by enhancing the tuition fee.

FUTURE PLANS:

- To introduce PG Programme & increase intake in UG Programme
- To establish new research laboratory
- To take up consultancy on Civil Engineering material testing

PHOTO GALLERY

Field Visit

EVALUATION REPORT OF THE FIRST YEAR ENGINEERING DEPARTMENT

1. **Name of the department:** First Year Engineering Department
2. **Year of Establishment :**1989
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
   - UG - B.Tech.
4. **Name of Interdisciplinary courses & the departments/ units involved:**

S.No.	Department involved	Year/ Semester	Name of the Interdisciplinary Course	Programme
1	IT	I/I and I/II	CPNM	B.Tech.
2	ME	I/I and I/II	Engineering Graphics	
		I/II	EM & SM and Material Science.	
3	Civil	I/II	Engineering Geology	
4	ECE	I/II	Basic Electronics	

5. **Annual/ semester/ choice based credit system (programme wise):**

   Semester System :

   UG: B.Tech. - Choice Based Credit System

6. **Participation of the department in the courses offered by other departments:**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	PSQT	I/II	CSE
2		OR	II/II	CSE
3		M-IV	II/I	EEE/ECE/ME/CIVIL
4		M-V	II/II	ECE
6		Environmental Science	II/II	CSE

7		Soft Skills	III/I	EEE/ECE/ CIVIL /CSE/IT
8	PG	Soft Skills	III/ II	ME
9		Quantitative Techniques	I/I	MBA
10		Operation Research	II/I	MBA
11		Probability Statistics and Queuing Theory	I/II	MCA
12		Operation Research	II/I	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:**

Name of the Post	Sanctioned	Filled
Professors	6	3
Associate Professors	12	2
Assistant Professors	38	51
Total	**56**	**56**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,):**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	Number of Ph.D. Students guided for last 4 years
1	Dr. V. R.K. Murthy	Ph.D.	Professor & HOD	Maths	26	01
2	Dr. K. Ramanjaneyulu	Ph.D.	Professor	Chemistry	30	--

3	Dr. D. Saraswathi	Ph.D.	Professor	Maths	25	--
4	Dr. S. N. Rama chandra Rao	Ph.D.	Associate Professor	Physics	27	--
5	Sri P. Mohan Kumar	M. Phil.	Sr Assistant Professor	English	18	--
6	Dr. Y.Bharathi	Ph.D.	Assistant Professor	English	17	--
7	Mr. Sk. Sadik	M. Phil	Assistant Professor	Maths	13	--
8	Mr. A. Srinivas	M.A.	Assistant Professor	English	07	--
9	Mr. B.Chandra Sekhar	M.Sc.	Assistant Professor	Chemistry	06	--
10	Mr. B.Kanaka Raju	M.Sc.	Assistant Professor	Chemistry	06	--
11	Mr. S.Sree Rajesh	M.Sc.	Assistant Professor	Physics	06	--
12	Mrs. V.Vijaya lakshmi	M.Sc.	Assistant Professor	Physics	07	--
13	Mr.K. Gangadhara Rao	M.Sc.	Assistant Professor	Env. Sc	09	--
14	Mr. G. Siva	M.Sc.	Assistant Professor	Maths	04	--
15	Mr. G. Srinivasa Rao	M.Sc.	Assistant Professor	Maths	04	--
16	Mrs. P.V. Vasavi	M.Sc.	Assistant Professor	Physics	07	--
17	Mr. Sk Baji	M.Sc.	Assistant Professor	Maths	04	--

18	Mr. V. Vamsi Krishna	M.Sc.	Assistant Professor	Physics	07	--
19	Mr. B. Gowrav Naidu	M.Sc.	Assistant Professor	Env.Sc	04	--
20	Mr. G. Satyana rayana	M.Sc.	Assistant Professor	Maths	04	--
21	Mrs. M. Padmadevi	M.Sc.	Assistant Professor	Maths	05	--
22	Mrs. P. Vijaya Lakshmi	M.Sc.	Assistant Professor	Physics	03	--
23	Mrs. P. Anitha Vijaya Sree	M.Sc.	Assistant Professor	Env.Sc	03	--
24	Mrs. M. Durga Ratnam	M.Sc.	Assistant Professor	Maths	03	--
25	Ms. Ch. Naga Malleswari	M.Sc.	Assistant Professor	Chemistry	05	--
26	Mr. S. Ravi Kumar	M.Sc.	Assistant Professor	Maths	10	--
27	Mr. V. Ravi Kiran	M.Sc.	Assistant Professor	Physics	08	--
28	Mr. M. Veeranja neyulu	M.Phil	Assistant Professor	Physics	24	--
29	Mrs. D. Ganaga Bhavani	M.Sc.	Assistant Professor	Chemistry	02	--
30	Mrs. D. Choude swari	M.Sc.	Assistant Professor	Chemistry	02	--
31	Mrs. L. Swetha	M.Sc.	Assistant Professor	Maths	02	--
32	Mr. S. Sekhar	M.Phil,	Assistant	Maths	13	--

	Panda	M.Tech.	Professor			
33	Mr. M. Anand Kumar	M.Sc.	Assistant Professor	Chemistry	01	--
34	Ms. B.V. Komali	M.A.	Assistant Professor	English	02	--
35	Mrs. B.D. Naga Prasanna	M.A.	Assistant Professor	English	08	--
36	Mrs. K. Umakaruna Devi	M.Sc.	Assistant Professor	Maths	08	--
37	Mrs. P. Himabindu	M.A.	Assistant Professor	English	01	--
38	Mrs. V.D. Ratna Kumari	M.Sc.	Assistant Professor	Maths	01	--
39	Ms. K Sirisha	M.Sc.	Assistant Professor	English	01	--
40	Ms. B . Valli Purnima	M.Sc.	Assistant Professor	Chemistry	01	--
41	Mrs. B. Tulasi Koteswari Bai	M.Sc.	Assistant Professor	Chemistry	01	--
42	Ms. V. Rajara jeswari	M.Sc.	Assistant Professor	Chemistry	01	--
43	Mrs. K. Venkata Lakshmi	M.Sc.	Assistant Professor	English	01	--
44	Mrs. K. Hema latha	M.Sc.	Assistant Professor	Maths	01	--
45	Mrs. K.Anu	M.Sc.	Assistant Professor	Maths	01	--
46	Mr. Ch.J.N. Pavan Kumar	M.Sc.	Assistant Professor	Physics	01	--

47	Mr. M.Raju	M.Sc.	Assistant Professor	Physics	01	--
48	Dr. G.Ramu	Ph.D.	Associate Professor	Chemistry	15	--
49	Mr. Ch. Satyana rayana	M.Sc.	Assistant Professor	Chemistry	01	--
50	Mr. V Naveen Kumar	M.Tech	Assistant Professor	Engineering Mechanics	01	--
51	Mr. V Shakti Kiran	M.Tech	Assistant Professor	Engineering Mechanics	01	--
52	Mr. DSRKV Prasad	M.LiSc.	Assistant Professor	Library Science	20	--
53	Mr. K Sanjeeva Rao	M.PED.	Assistant Professor	Physical Education	05	--
54	Ms. S. Rajeswari	M.B.A.	Assistant Professor	Aptitude	05	--
55	Mr. R. Sarath Babu	B.E.	Assistant Professor	Soft Skills	05	--
56	Mr. M. Lakshmi Deepak	M.BA.	Assistant Professor	Training and Placement	10	--

11. **List of senior visiting faculty:**

S.No.	Name	Designation	Industry/ Institution Address
1	Dr. G. Radhakrishna Acharya	Professor in Maths	NIT, Warangal
2	Dr.M.A. Srinivas	Professor in Maths	JNTUH, Hyderabad
3	Dr. M.Purnachandra Rao,	Member A.P. B.C. Comission ,Ex-Professor and Head	Department of system design Andhra University, AU

4	Dr. K. Niranjan	Professor in Physics, Ex HOD	Dept. of Physics, AU
5	Dr. P. Venkateswara Rao	Rtd. Professor in Chemistry	S V University
6	Dr. S. Srinivas	Professor in Maths	VIT , Vellore

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** Nil

13. **Student -Teacher Ratio (programme wise):**

Programme	Students	Existing Faculty	Ratio
UG	840	56	15:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
03	03	05	05

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Highest Qualification	Professors	Associate Professors	Assistant Professors	Total
Ph.D.	3	1	1	05
M.Phil./M.Tech.	0	1	4	05
M.Sc.	--	--	46	46

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

.Name of the Faculty	Title of the Project	Funding Agency	Sanctioned Amount in (Rs.)	Status
Dr.A Ramachandra Rao	MODROBS, Characterization of water affluents and lubricants oils	AICTE	5,72,000.00	Completed

18. **Research Centre/ facility recognized by the University:** No

19. **Publications :**

- Number of publications per faculty: 1.4
- Number of publications in peer reviewed journals (National /International) by faculty and students: 78

S.No.	Name of the Faculty	No. of Papers in National Journals	No. of Papers in International Journals	Total
1	Dr. V. R.K. Murthy	7	10	17
2	Dr. K. Ramanjaneyulu	9	18	27
3	Dr. D. Saraswathi	--	3	3
4	Dr. S. N. Ramachandra Rao	1	3	4
5	Mr. Sk. Sadik	--	3	3
6	Dr. Y.Bharathi	--	2	2
7	Mr. M.Veeranjaneyulu	--	2	2
8	Mr. S. Sekhar Panda	--	20	20
Total		**17**	**61**	**78**

- 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.): 07
- Monographs: Nil
- Chapters in Books**:** 3

S.No.	Name of the Faculty	Name of the Book	ISBN / ISSN	Publisher
1	Mr. S.Sekhar Panda	Computational Intelligence in Data Mining—Volume 2	978-81-322-2729-8	SPRINGER
2		Computational Intelligence in Data Mining—Volume 1	978-81-322-2207-1	SPRINGER
3		Proceedings of International Conference on Advances in Tribology and Engineering Systems	978-81-322-1655-1	SPRINGER

- Books Edited**:** Nil
- Books with ISBN numbers with details of publishers**:** 4

S.No.	Name of the Faculty	Title	ISBN	Publisher
1	Mr. M. Veeranjaneyulu	Engineering Physics-I	788192054049, edition 2012	VGS Publishers
2		Engineering Physics-II	9788192054032, 2nd edition 2012.	VGS Publishers
3		Engineering Physics	ISBN: 9788192054094, 3rd Edition 2015.	VGS Publishers
4		Applied Physics	9788192054070 Ist edition	VGS Publishers

- No. of Citations : 70
- SNIP: Nil
- Citation Index : Nil
- Impact Factor: Min: 0.11 Max:1.2
- SJR : Nil
- h-index : 3

20. **Areas of consultancy & income generated:** Nil

21. **Faculty as members in**

- National committees:

S. No.	Name of the Faculty Member	Membership Committee	Type of Membership
1	Dr. V R K. Murty	ISTE	Life
2	Dr. V R K. Murty	APSMS	Life
3	Dr. K. Ramanjaneyulu	ISTE	Life
4	Mr. S. Sekhar.Panda	ISTE	Life
5	Mr. S. Sekhar.Panda	AMIE	Life

- International committees:

S. No.	Name of the Faculty Member	Membership Committee	Type of Membership
1	Mr. S Sekhar Panda	IAENG (International Association of Engineers)	Lifetime

- Editorial boards:

S.No.	Name of the Faculty	Description
1	Dr.K. Ramanjaneyulu	Editorial Board Of International Journal Of Science Engineering and Advance Technology-(IJSEAT)
2	Mr. S. Sekhar.Panda	Editorial Board Of International Journal Of Research in Computer and Communication Technology (IJRCCT)
3.	Dr. S. N.Ramachandra Rao	Associate Editor of International Journal Of Science Engineering and Advance Technology-(IJSEAT)
4.	Dr. V. R. K. Murty	Associate Editor in International Journal of Mechanical Engineering and computer Applications (IJMCA)
5	Dr. D. Saraswathi	Associate Editor of International Journal Of Science Engineering and Advance Technology-(IJSEAT)
6	Dr. Y. Bharathi	Associate Editor of International Journal Of Science Engineering and Advance Technology-(IJSEAT)
7	Mr. S. Sekhar.Panda	Reviewer for Elsevier Journal (Infrared Physics and Technology)

22. **Student Projects :** Nil

23. **Awards/ recognitions received by faculty and students :**Nil

24. **List of eminent academicians and scientists / Visitors to the department:**

- Dr. K.V.S.G. Murali Krishna, Director, (Foreign Universities & Alumni Relations), J.N.T. University, Kakinada Visited on 22 March 2013 and gave a lecture on Carrier Guidance & Academic Planning

25. **Seminars/ conferences/ workshops organised & the source of funding:**

S.No.	Type	Academic Year	Date	Name of the Seminars /conferences/ workshops	Sources of Funds
1	National	2011-12	4-7-11 to 15-7-2011	Faculty Development Programme	Institution
2	National	2012-13	30-08-12 to 12-09- 12	Faculty Development Programme	Institution
3	National	2013-14	15.07.2013 to 25.07.2013	Faculty Development Programme	Institution

26. **Student profile programme/ course wise:**

Name of the course / programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
B.Tech.	2015-16	--	811	541	270	55.15
	2014-15	--	770	492	278	51.73
	2013-14	--	820	510	310	48.22

	2012-13	--	828	520	308	42.01

27. **Diversity of Students:**

Name of the Course	Academic Year	%of Students from same state	%of Students from other state	%of the Students from abroad
B.Tech.	2016-17	100	NIL	NIL
	2015-16	96.6	3.4	NIL
	2014-15	100	NIL	NIL
	2013-14	100	NIL	NIL

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense service etc., :** Nil

29. **Student Progression:** Not Applicable

30. **Details of Infrastructural facilities:**

a) Library

- Name : Sri. V.V.N. Prasad Memorial FED library
- Area: 45 sq.mts.
- No.of Volumes: 810
- No.of Titles: 307

b) Internet facilities for Staff & Students

- Provided with 120Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility

- 01 - Seminar Hall
- In addition to that, Projector, laptop & OHP are available in the department.

d) Laboratories

Name of the Laboratory	Area (sq.mts.)	Investment(Rs.)
Chemistry Lab	317	22,64 ,310
Physics Lab	317	15,23,875
Language Lab	328	27,00,000
Total		**64,88,205**

31. **Number of students receiving financial assistance from college, university, government or other agencies:**

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	396	385	366	368

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts:**

S.No.	Name of the Expert	Date	Topic
1	Sri. Asgar Ahmed Soft Skill Trainer , Andhra Loyala Institute Technology and Engineering	17th Aug 2016	Upadhi Kalpana
2	Dr. G. S. Prasad, Pediatrician, Eluru	13th Aug 2016	Good Habits and Nutrition
3	Dr. KVRNS. Kondayya Rao Retd. HOD, PG Commerce, Sir CRR P.G. College.	12th Aug 2016	Two-digits development
4	Sri.V. Ravi Kiran	30th Dec 2014	Exhibiting Environmental conservation Projects
5	Smt. T. Aruna Kumari	21st Nov 2014	Yogathan
6	Dr. A Ramachandra Rao, Dean Academic, KITS, Ramachandrapuram	8th Sep 2012	How to Deliver an Effective Lecture in the Class?

33. **Teaching methods adopted to improve student learning :**

- During Lecturing staff utilizes PPTs and facilitate exceptional sessions for video addresses as and when the need emerges. MATERIALS/ DOCUMENTS are disseminated regularly to those who appear for supplementary examination
- Guest lecture to enable the student know new trends
- NPTEL lectures
- Assignments
- Remedial classes
- Models and charts
- Regular seminars
- Tutorials

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities :**

- YES. Students participate in NSS and do service to the needy people in many aspects as well as donate blood to the needy.

PMJF Ln, Dr. Ch. Satyanarayana Swachha Andhra on 16-08-16

35. **SWOC analysis of the department and Future plans**

STRENGTHS:

- Well equipped laboratories.
- Library facilities with more number of volumes
- Well furnished class rooms.

- Uninterrupted internet facilities.
- Infrastructure with Pollution free Environment
- Well qualified and experienced faculty.

WEAKNESSES:

- Lack of Industries nearby.
- Less scope for consultancy because of rural surroundings.
- Poor Communication skills of students at entry level.

OPPORTUNITES:

- Opportunities are available for research and development.
- Scope to learn from the senior faculty

CHALLENGES:

- Because of more no. of Engineering Colleges, quality of intake is poor, especially in rural Engineering Colleges. Hence it is a challenge to make the students compete with others.

FUTURE PLANS:

- To get NAAC & NBA Accreditation
- To organize National Level Technical Symposium/ conferences
- To Establish Center of Excellence
- To achieve 90% and above results

PHOTO GALLERY

EVALUATION REPORT OF THE MBA DEPARTMENT

1. **Name of the department:** Master of Business Administration
2. **Year of Establishment :** 2007
3. **Name of Programmes/ courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
   - PG - MBA
4. **Name of Interdisciplinary courses & the departments/units involved :**

S.No.	Department involved	Year/ Semester	Name of the Interdisciplinary Course	Programme
1	FED	I/I	Quantitative Techniques	MBA
2	CSE	I/ II	E-Business	
3	FED	II/I	Operations Research	

5. **Annual/ semester/ choice based credit system (programme wise) :**
   Semester System:
   - MBA - Choice Based Credit System
6. **Participation of the department in the courses offered by other departments :**

S.No.	Programme	Subject	Year/ Semester	Department
1	UG	Principles of Economics And Management	IV /I	CSE
2		Principles of Economics And Management	IV /I	IT
3		Principles of Economics And Management	IV /II	ECE
4		Principles of Economics And Management	IV /II	EEE
5	PG	ISOB	I /I	MCA
6		Management Accounting	I /II	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 :**

Name of the Post	Sanctioned	Filled
Professors	1	--
Associate Professors	2	1
Assistant Professors	5	7
Total	**8**	**8**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years
1	Dr. K. Krishnaiah Choudary	M.A, M.B.A, Ph.D.	Associate Professor & HOD	HR & Marketing	31	--
2	Mr.K.V. Sridhar	M.Com, M.B.A, MHRM, M.Phil.	Assistant Professor	Finance & HR	22	--
3	Mrs.Ch. Sowjanya	M.B.A.	Assistant Professor	HR & Marketing	8	--
4	Mrs.Sk. Jaheerunnisa Begum	M.B.A.	Assistant Professor	Finance & Marketing	8	--
5	Mr.N. Satish	M.B.A.	Assistant Professor	Finance & Marketing	6	--
6	Mrs.Ch.Madhavi Latha	M.B.A.	Assistant Professor	HR	5	--
7	Mr.V. Sandeep	M.B.A.	Assistant Professor	Finance & Marketing	2	--
8	Mr.K.Nageshwara Rao	M.B.A.	Assistant Professor	Finance & Marketing	--	--

11. **List of senior visiting faculty:**

S.No.	Name	Designation	Industry/ Institution Address
1.	Dr. Joseph M Putti	Former professor	Stanford university, USA
2.	Dr.N.Samba Siva Rao	Professor	Department of Management studies AndhraUniversity Visakhapatnam
3.	Sri K V Madhava Rao	General Manager, HR	CPF India Pvt Ltd., Hyderabad
4.	Sri N.Samba Siva Rao	Deputy Manager, HR and Administration	Hyderabad Industries Ltd, IDA, Kondapalli, Krishna District

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** Nil

13. **Student -Teacher Ratio (programme wise):**

Programme	Students	Existing Faculty	Ratio
MBA	120	8	15:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Technical Staff		Administrative Staff	
Sanctioned	Filled	Sanctioned	Filled
--	--	01	01

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Highest Qualification	Professors	Associate Professors	Assistant Professor	Total
Ph.D.	--	01	--	01
M.Phil.	--	--	01	01
MBA	--	--	06	06

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** Nil

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil

18. **Research Centre/ facility recognized by the University :** NO

19. **Publications :**

- Number of publications per faculty:1.5
- Number of publications in peer reviewed journals (National /International) by faculty and students:12

S.No.	Name of the faculty	No. of Papers in National journals	No. of Papers in International journals	Total
1	Dr.Krishnaiah Choudary	1	3	4
2	Mr.K.V.Sridhar	0	4	4
3	Mr. N.Satish	0	2	2
4	Mrs. Ch.Madhavi Latha	0	1	1
5	Mr.V.Sandeep	0	1	1
Total		**1**	**11**	**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.): 12

- Monographs: Nil
- Chapters in Books: 9

S.No.	Name of the Faculty	ISBN	Publisher
1	Dr.K.Krishnaiah Choudary	978-93-81505-27-4	'Publication of the society of management and Behavioural Sciences
2	Dr.K.Krishnaiah Choudary	978-93-81075-82-1	BS Publications
3	Dr.K.Krishnaiah Choudary	978-93-82163-24-4	Paramount Publishing House
4	Dr.K.Krishnaiah Choudary	978-93-85100-05-5	Paramount Publishing House
5	Mr.K.V.Sridhar	978-93-82163-81-6	Paramount Publishing House
6	Mr.K.V.Sridhar	978-93-83241-32-3	Archers and Elevators Publishing House
7	Mrs.Ch.Madhavi Latha	978-93-82163-81-6	Paramount Publishing House
8	Mrs.Ch.Madhavi Latha	978-93-83241-32-3	Archers and Elevators Publishing House
9	Mr.V.Sandeep	978-93-83241-32-3	Archers and Elevators Publishing House

- Books Edited: Nil
- Books with ISBN numbers with details of publishers**:** Nil
- Citations: Nil
- SNIP: Nil
- SJR: Nil
- Impact Factor: Min: 0.30 Max: 3.85
- h-index: Nil

20. **Areas of consultancy & income generated:** Nil

21. **Faculty as members in :**

- National committees: Nil
- International committees: Nil
- Editorial boards: Nil

22. **Student Projects:**

Academic Year	Programme	In-House Projects (%)	Outside the Institution (%)
2015-16	MBA	0	100
2014-15	MBA	0	100
2013-14	MBA	0	100

23. **Awards/ recognitions received by faculty and students :**

S.No.	Name of the Student/ Faculty	Award	Year
01	Dr. K.Krishnaiah Choudary	Gold Medal for Ph.D. from Andhra University	1994

24. **List of eminent academicians and scientists / Visitors to the department:**

S.No.	Name	Designation	Industry/Institution Address
1	Sri M.Harischandra Prasad	Chairman	Andhra Sugars Ltd, Tanuku
2	Sri A.Indra Kumar	Managing Director	Avanthi Feeds Ltd, Kovvuru
3	Prof.A.V.Subba Rao	Professor	University of Ottawa, Canada
4	Sri P.Dhana Prakash	Managing Director	Model Dairy Pvt Ltd.,Vijayawada
5	Sri K.Satya Murthy	AGM	Karur Vysya Bank, Vijayawada

25. **Seminars/ conferences/ workshops organised & the source of funding:**

S.No.	Type	Academic Year	Date	Name of the Seminars/conferences/ workshops	Sources of Funds
1	National	2014-15	14th October 2014	One day Workshop on Entrepreneurship Awareness and Motivational programme	Institution
2		2013-14	5th & 6th Nov 2013	Two-Day Workshop on Entrepreneurship Awareness Camp	Institution

26. **Student profile programme/ course wise:**

Name of the Programme	Academic Year	Applications received	Selected	Enrolled		Pass Percentage
				Male	Female	
MBA	2015-16	--	50	34	16	97.87
	2014-15	--	53	28	25	100.00
	2013-14	--	59	36	23	100.00
	2012-13	--	60	37	23	100.00

27. **Diversity of Students:**

Name of the course	Academic Year	%of the students from the same state	%of the students from the other state	%of the students from abroad
MBA	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0
	2011-12	100	0	0

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence service etc., :** Nil

29. **Student Progression:**

Student Progression	2015-16 (%)	2014-15 (%)	2013-14 (%)	2012-13 (%)
PG to Ph.D	--	--	--	--
Campus	24.52	48	7.14	16.66
Other than Campus	5.66	2.00	5.33	3.33
Entrepreneurship/ self-employment	7.54	3.77	10.71	--

30. **Details of Infrastructural facilities:**

a) Library

- Name : MBA Department library
- Area: 45 sq.mts.
- No.of Volumes: 482
- No.of Titles: 355

b) Internet facilities for Staff & Students

- Provided with 120Mbps internet facility.
- Wi-Fi facility is provided for all student laptops in college premises.
- For each staff cabin, PC with internet facility is provided.

c) Class rooms with ICT facility :

- 01 - MBA Seminar Hall

d) Laboratories: Nil

31. **Number of students receiving financial assistance from college, university, government or other agencies:**

Agency	No. of Students received Financial Assistance			
Academic Year	2015-16	2014-15	2013-14	2012-13
AP State Government	67	76	77	71

32. **Details on student enrichment programmes (special lectures / workshops / seminar)with external experts:**

S.No.	Name of the Expert	Date	Event/Topic
1	Sri S.Uma Maheswara Rao, HR Manager, HIL LTD, Kondapalli, Krishna Dt.	14th Oct 2015	"Skills required for Management Graduates – How to acquire"?`
2	Sri Venkatesh Padarthi, Managing Director, Mana Kirana Shop.com,Eluru	3rd Sep 2015	"Online Business Strategies"
3	Sri N.Raja Mahendra, Managing Director, Surya Polymers,Eluru	29th July 2015	Entrepreneurship Awareness and Motivational program J.R.D.Tata's 111th Birthday Celebrations
4	Brahma Kumaris, Sister Lavanya, Eluru	24th Feb 2015	Guest Lecture on Positive Thinking
5	Prof. G.Sudarshan Rao, Department of Commerce and Management studies, AU,Visakhapatnam.	5th Feb 2015	Guest Lecture on Consumer Behaviour and Customer Relationship Management
6	Sri K.Srinivas , Senior Manager,	27th Dec 2014	Guest Lecture on Career Guidance

	LIC, Branch-2, Eluru		
7	Sri D.Naga raju Naidu, Deputy General Manager, Andhra Bank, Eluru	3rd Nov 2014	Guest Lecture on Opportunities in Banking Sector
8	Sri T.Raghava Prasad, Managing Director, Krishna Engineering Works,Vijayawada	29th July 2014	Entrepreneurship Awareness and Motivational program J.R.D.Tata's 110th Birthday Celebrations.
9	Sri Siva Kasaraneni, Management Consultant, Price water house cooper strategy, USA	21st March 2014	Leveraging Indian Human Capital to build Sustainable Economy
10	Dr. C.V.Phani Kumar, Professor, University of Leeds, UK	6th Sep 2014	Guest Lecture on Marketing Research
11	Sri G.Chandra Sekhar Rao , Personnel Manager, Ruchi Soya Industries Ltd, Amapapuram, Krishna Dt.	17th Dec 2013	Guest Lecture on Industry Expectation from Management Students
12	Sri.K.Subrahmanyam, Managing Director, Kumar Pumps & Motors Ltd, Tenali, Guntur Dt.	29th July 2013	Entrepreneurship Awareness and Motivational program J.R.D.Tata's 109th Birthday Celebrations

33. **Teaching methods adopted to improve student learning :**

- Following the lecture method using Black Boards.
- Using PPT's
- Conducting the Student Seminars on subject related Topics.
- Using relevant Case Studies for more effective teaching & learning**.**

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities :**

- Donated Rs.10,000/- towards Hud-Hud Relief Fund (for the Cyclone Relief at Visakhapatnam) in the year 2014.
- Donated Blood at the Blood Donation Camps Conducted by the college in Association with Red-Cross at different times.
- Participated in National Voters Day Awareness Skit, Organized by A.P Govt at collectorate, Eluru, West Godavari District on 25-01-2016.

35. **SWOC analysis of the department and Future plans:**

STRENGTHS:

- College is the main strength to MBA department which has 25 years history and disciplined and professional environment
- A separate Training & Placement department
- Experienced Faculty
- Teaching OM, OR, QT and Computer Papers by experts with interdisciplinary faculty.
- Conducting Seminars on various topics to improve communication, Team Management and Conceptual Skills of Students.
- Subscription of Economic Times, Hindu news papers to improve subject related knowledge and Business Quotient skills of students.
- College library with number of Journals and E-Journals.
- Regularly conducting various events like seminars, JAMs, Guest Lectures,
- Man Meets to develop students exposure to various areas of knowledge.

WEAKNESSES:

- College is located at Eluru which is semi-urban area and students from nearby villages, which is the main weak point of our department. Students are weak in communication skills and feel shy to participate in seminars, presentations etc.
- Our course is affiliated to Andhra University, Visakhapatnam, so we have no flexibility in preparing the curriculum according to the changing conditions and also have to follow the schedule, prepared and sent by the university in conducting examinations etc.

OPPORTUNITIES:

- More number of Engineering and inter disciplinary graduates opting MBA course.
- More number of Employment Opportunities are opened in the areas of Finance and Marketing.
- Division of State provides more employment and Entrepreneurial
- Opportunities to MBA Students.
- Department Alumni have settled in Popular Companies and their reference is an opportunity to promote MBA Students.

CHALLENGES:

- Entry of more number of National and International Private Universities in Andhra Pradesh.
- Less number of admissions in Degree Colleges.

FUTURE PLANS:

- Planning to obtain more number of MOUs with industry to enhance industry exposure to the students and to increase campus placement opportunities.
- Planning to organize Personality Development Programmes for the overall development of Students and Faculty.

PHOTO GALLERY

Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

ELURU - 534 007, West Godavari Dist., A.P., INDIA

(APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
PERMANENTLY AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM - 530 003)

www.sircrengg.ac.in

☎ Off : (08812) - 230840, 230565
Fax : (08812) - 224193
E-mail : principal.sircrengg@gmail.com

Ref. No.

Date : 04/11/2016

Declaration by the Head of the Institution

I 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 internal discussions, and no part thereof has been out sourced.

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:

SIR C.R.R. COLLEGE OF ENGINEERING ELURU-7

PRINCIPAL
Sir C.R.R. College of Engineering
ELURU - 534007

Estd. 1989

SIR C.R. REDDY COLLEGE OF ENGINEERING

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(APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI,
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www.sircrengg.ac.in

☎ Off : (08812) - 230840, 230565
Fax : (08812) - 224193
E-mail : principal.sircrengg@gmail.com

Ref. No.

Date : 25-11-2016

Certificate of Compliance

This is to certify that Sir C R Reddy College of Engineering fulfils all norms

1. Stipulated by the affiliating University and
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure 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 NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 25-11-2016

Place: ELURU

Dr G. SAMBASIVA RAO

Principal

(Name and Signature with Office seal)

PRINCIPAL
Sir C.R.R. College of Engineering
ELURU - 534007

PART-IV

ANNEXURES

ANNEXURE - 1

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. South-Central/1-2813264758/2016/EOA Date: 05-Apr-2016

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 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-Central	Application Id	1-2813264758
Name of the Institute	SIR C R REDDY COLLEGE OF ENGINEERING	Permanent Id	1-9443411
Name of the Society/Trust	SIR C R REDDY COLLEGE OF ENGINEERING	Institute Address	VATLURU ELURU WEST GODAVARI DISTRICT, ELURU, WEST GODAVARI, Andhra Pradesh, 534007
Institute Type	Unaided - Private	Society/Trust Address	SIR C R REDDY COLLEGE OF ENGINEERING, VATLURU, ELURU,ELURU,WEST GODAVARI,Andhra Pradesh,534007

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

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2813264758			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLO	1st Shift	POST GRADUA	COMMUNICATION SYSTEMS	FULL TIME	Andhra University, Visakhapatnam	24	24	NA	NA	NA

Application Number: 1-2813264758
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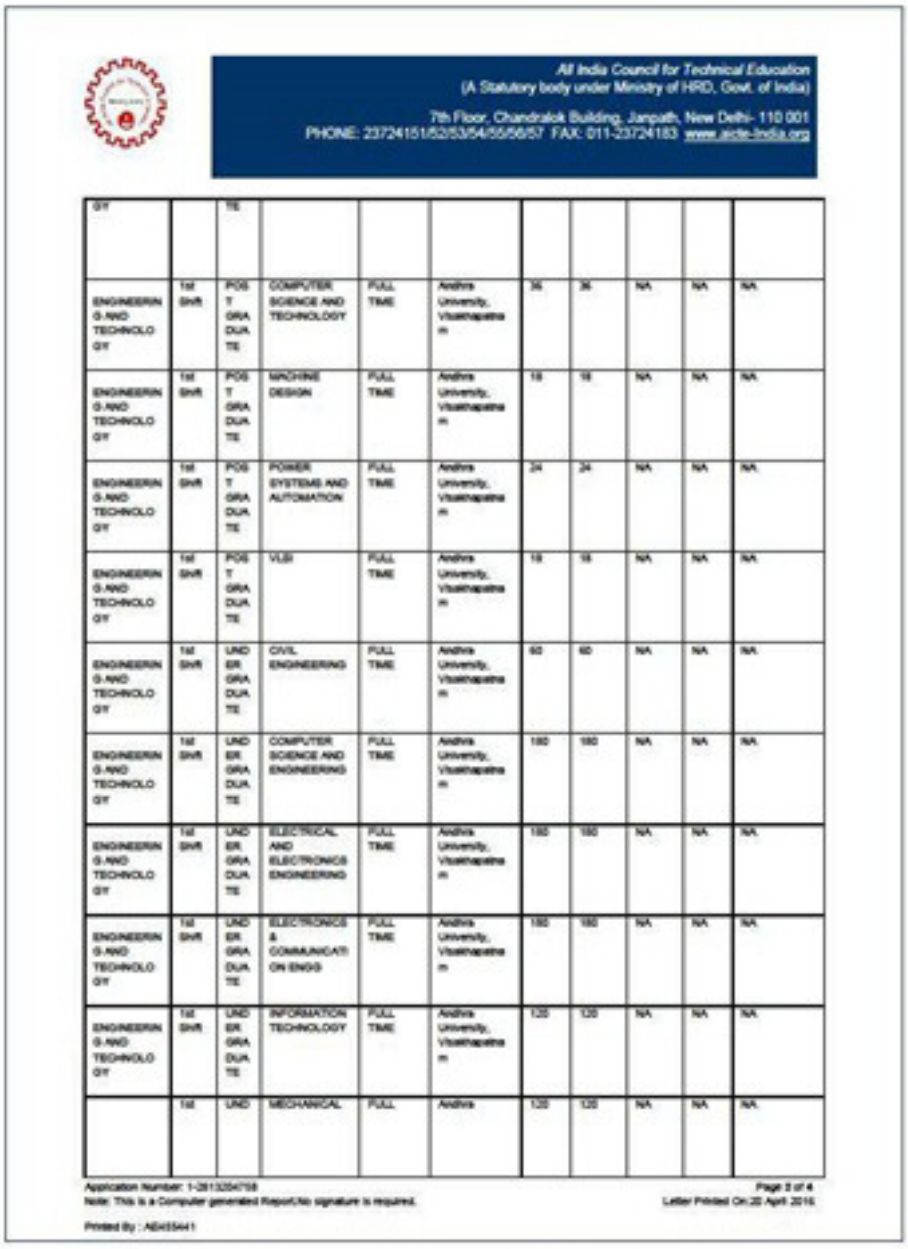
Page 1 of 4
Letter Printed On:22 April 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

GY		TE								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE AND TECHNOLOGY	FULL TIME	Andhra University, Visakhapatnam	36	36	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MACHINE DESIGN	FULL TIME	Andhra University, Visakhapatnam	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER SYSTEMS AND AUTOMATION	FULL TIME	Andhra University, Visakhapatnam	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI	FULL TIME	Andhra University, Visakhapatnam	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Andhra University, Visakhapatnam	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Andhra University, Visakhapatnam	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Andhra University, Visakhapatnam	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Andhra University, Visakhapatnam	180	180	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Andhra University, Visakhapatnam	120	120	NA	NA	NA
	1st	UND	MECHANICAL	FULL	Andhra	120	120	NA	NA	NA

Application Number: 1-2813254758 Page 3 of 4
Note: This is a Computer generated Report/No signature is required. Letter Printed On:22 April 2016
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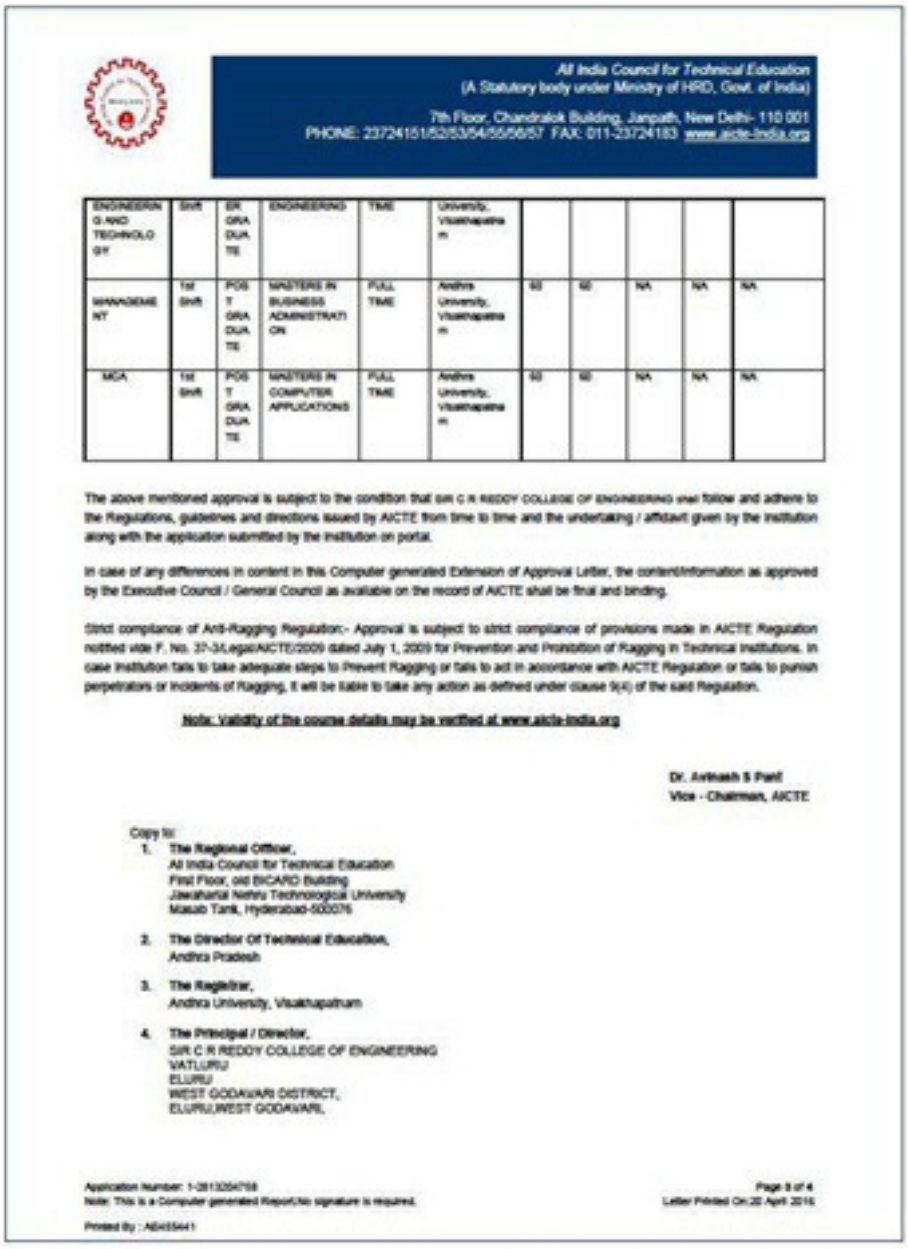

All India Council for Technical Education
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

ENGINEERING AND TECHNOLOGY	Shift	DEGREE DURATE	ENGINEERING	TIME	University, Visakhapatnam					
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Andhra University, Visakhapatnam	60	60	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Andhra University, Visakhapatnam	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that SIR C R REDDY COLLEGE OF ENGINEERING 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.

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.

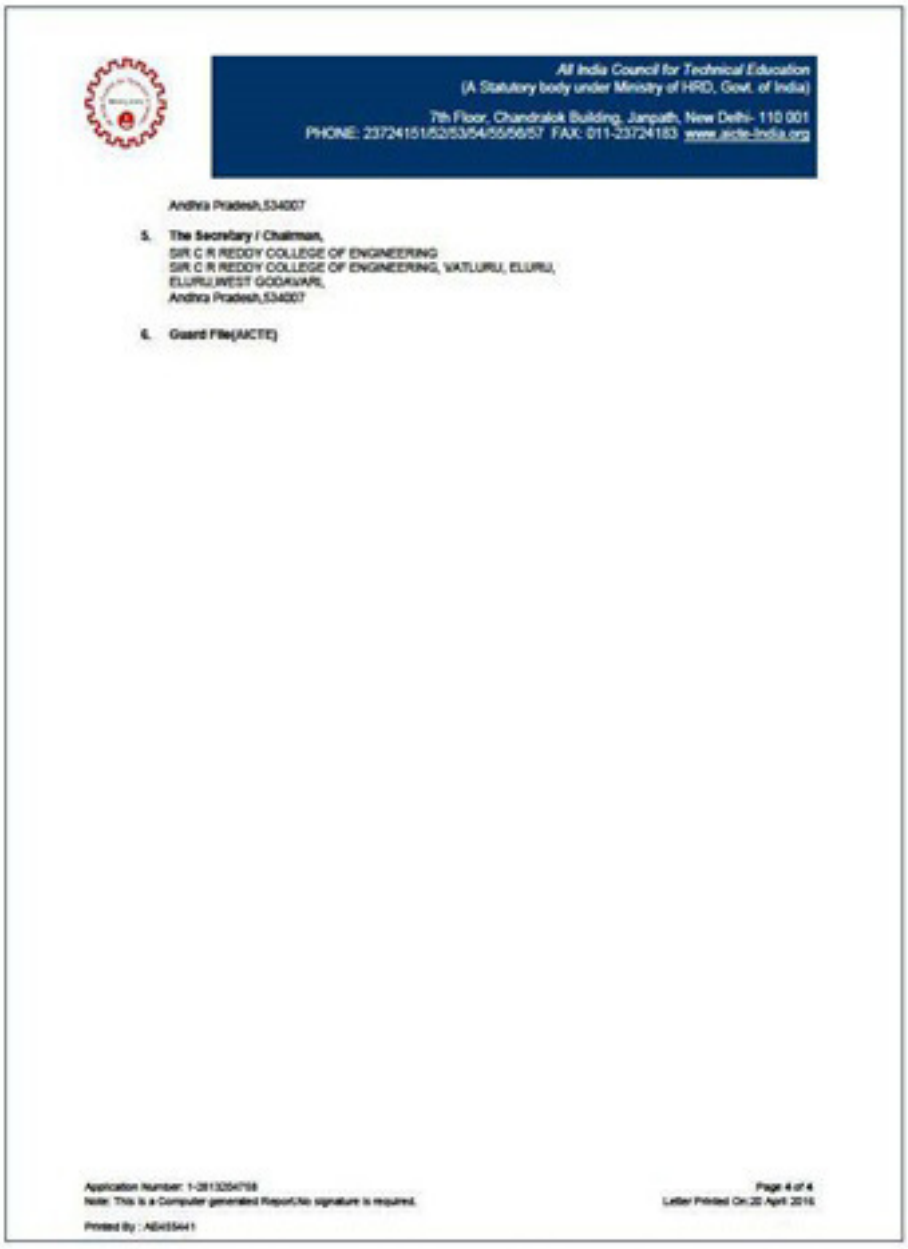
Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, 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,**
   Andhra University, Visakhapatnam
4. **The Principal / Director,**
   SIR C R REDDY COLLEGE OF ENGINEERING
   VATLURU
   ELURU
   WEST GODAVARI DISTRICT,
   ELURU,WEST GODAVARI,

Application Number: 1-2813254758
Note: This is a Computer generated Report,No signature is required.
Page 3 of 4
Letter Printed On:22 April 2016
Printed By : AD455441



All India Council for Technical Education
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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Andhra Pradesh,534007

5. **The Secretary / Chairman,**
SIR C R REDDY COLLEGE OF ENGINEERING
SIR C R REDDY COLLEGE OF ENGINEERING, VATLURU, ELURU,
ELURU,WEST GODAVARI,
Andhra Pradesh,534007

6. **Guard File(AICTE)**

Application Number: 1-2813254758
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Letter Printed On:20 April 2016

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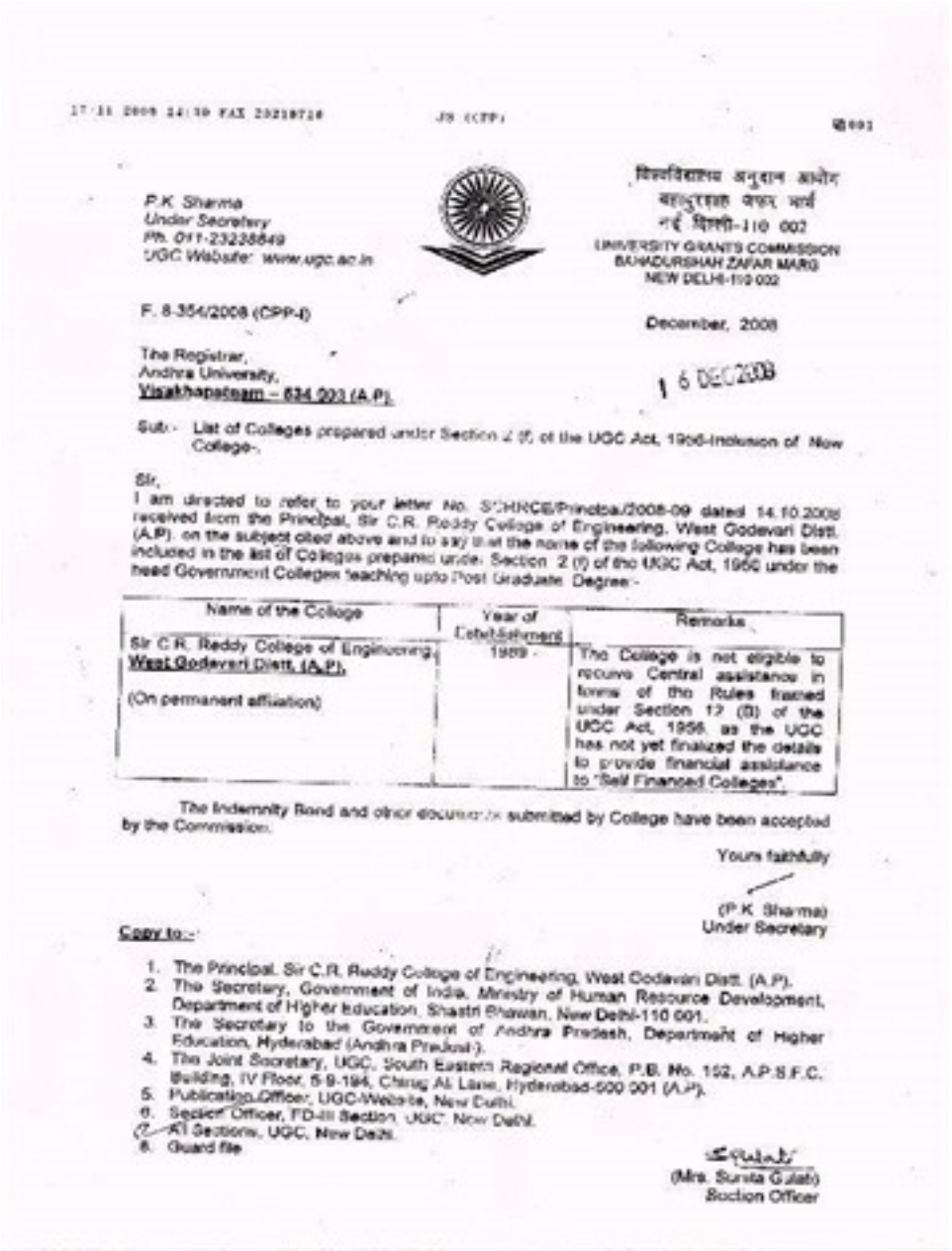
ANNEXURE – 2



17-11-2009 14:30 FAX 23218718 JS (CPP) 001

P.K. Sharma
Under Secretary
Ph. 011-23238849
UGC Website: www.ugc.ac.in

विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. 8-354/2008 (CPP-I)

December, 2008

The Registrar,
Andhra University,
Visakhapatnam – 534 003 (A.P).

16 DEC 2008

Sub:- List of Colleges prepared under Section 2 (f) of the UGC Act, 1956-Inclusion of New College-.

Sir,

I am directed to refer to your letter No. SCHRCE/Principal/2008-09 dated 14.10.2008 received from the Principal, Sir C.R. Reddy College of Engineering, West Godavari Distt. (A.P). on the subject cited above and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Government Colleges teaching upto Post Graduate Degree:-

Name of the College	Year of Establishment	Remarks
Sir C.R. Reddy College of Engineering, West Godavari Distt. (A.P). (On permanent affiliation)	1989 -	The College is not eligible to receive Central assistance in terms of the Rules framed under Section 12 (B) of the UGC Act, 1956, as the UGC has not yet finalized the details to provide financial assistance to "Self Financed Colleges".

The Indemnity Bond and other documents submitted by College have been accepted by the Commission.

Yours faithfully

(P.K. Sharma)
Under Secretary

Copy to:-

1. The Principal, Sir C.R. Reddy College of Engineering, West Godavari Distt. (A.P).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi-110 001.
3. The Secretary to the Government of Andhra Pradesh, Department of Higher Education, Hyderabad (Andhra Pradesh).
4. The Joint Secretary, UGC, South Eastern Regional Office, P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad-500 001 (A.P).
5. Publication Officer, UGC-Website, New Delhi.
6. Section Officer, FD-III Section, UGC, New Delhi.
7. All Sections, UGC, New Delhi.
8. Guard file

(Mrs. Sunita Gulati)
Section Officer

ANNEXURE – 3

ANDHRA UNIVERSITY

COLLEGE DEVELOPMENT COUNCIL

No.C.II(8)/Cert./2016

Visakhapatnam,
Dt. 04/11/2016.

From : OFFICE OF THE DEAN

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Sir C R R College of Engineering,Vatluru, Eluru, W.G. District, Andhra Pradesh is affiliated to the Andhra University since 1989 and recognized by the University Grants Commission and the following Courses / Subjects are taught in the said college as per approval for submit the same to NAAC.

S.No.	Name of the Course and Combination	Intake	Permanent / Temporary	Period of validity for the year
1	B.Tech. Computer Science and Engineering	180	Permanent	2012-17
2	B.Tech. Electronics and Communication Engineering	180	Permanent	2012-17
3	B.Tech. Electrical and Electronics Engineering	180	Permanent	2012-17
4	B.Tech. Information Technology	120	Permanent	2012-17
5	B.Tech. Mechanical Engineering	120	Permanent	2012-17
6	B.Tech. Civil Engineering	60	Temporary	2016-17
7	M.Tech. Computer Science and Technology	36	Temporary	2016-17
8	M.Tech. Communication Systems	24	Temporary	2016-17
9	M.Tech. Power Systems and Automation	24	Temporary	2016-17
10	M.Tech. Machine Design	18	Temporary	2016-17
11	M.Tech. VLSI	18	Temporary	2016-17
12	MBA	60	Temporary	2016-17
13	MCA	60	Temporary	2016-17

L. Manjula

(L.MANJULA)
ASST.REGISTRAR(CDC)
Assistant Registrar (CDC)
Andhra University
Visakhapatnam-530 003

ANNEXURE – 4

Gmail

Gutta Sambasiva Rao
<principal.sircrengg@gmail.com>

LOI Acceptance

CAPU SOUTH <capusouth@gmail.com> Tue, Nov 15, 2016 at 2:50 PM
To: Gutta Sambasiva Rao <principal.sircrengg@gmail.com>, Gutta Sambasiva Rao <gutta245@gmail.com>

Dear Principal

Greetings from NAAC

This has reference to your LOI bearing Track ID **APCOGN26740** dated 05/11/2016. As your LOI is accepted on 15/11/2016, you are advised to proceed further for submission of SSR. Acceptance of your SSR is subject to strict adherence to the timelines and procedural formalities of NAAC as given below:

- Must submit five hard copies and one soft copy (CD) of SSR along with the applicable A&A fee to NAAC within **two weeks from the date of acceptance of the LoI. Kindly note that hard copies of SSR/SAR should be submitted by post/ courier only. SSR/SAR will not be accepted by hand in NAAC office.**
- **There will be no relaxation in the time schedules for submission of hard copies of SSR**
- Before submitting the hard copies of SSR you are requested to ensure, that the uploaded SSR and the hard copies of the SSR are as per the prescribed manual/formats of NAAC and mandatorily includes the following:
  1. Preface and covering letter from the Head of the Institution
  2. Executive Summary – The SWOC analysis of the institution
  3. Profile of the Institution
  4. Criteria-wise analytical report
  5. Inputs from each of the Department in the format provided.
  6. Declaration by the Head of the Institution
  7. Compliance certificate

In case, all the inputs as listed above are not included or the SSR is not in the prescribed format your SSR will be rejected without any further notice and your application will be closed. In case of rejection of your SSR, you have to follow the process of assessment all again by submitting the online LOI and paying the Registration fees.

- Quote your assigned track ID **APCOGN26740** in all your future online/offline submissions and correspondence with NAAC.

- **"Only Government and Govt-Aided colleges covered under 2f and 12 B of UGC Act, 1956, and getting General development grants during XII Plan" are eligible for exemption of Accreditation fees subject to the production of valid documentary evidence (Please note that the name of the institution in**

the UGC records should be the same as that in LOI for claiming exemption of fees). All other colleges have to pay the Accreditation fees as per the revised NAAC fees structure.

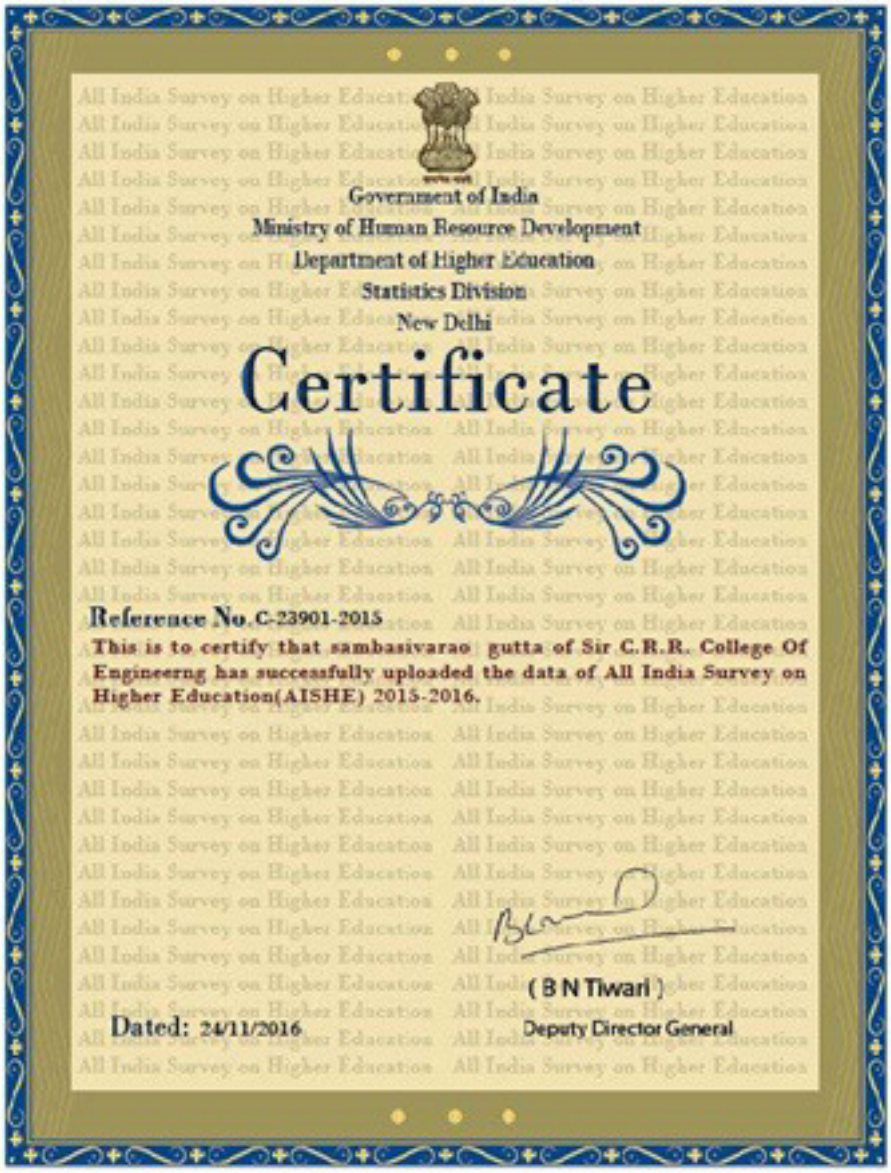
Please note that, if at any point of time while processing your application, NAAC finds that the information provided by the institution in the LOI, IIQA, SSR or in the supporting documents is incorrect or misleading your application for assessment and accreditation will be rejected. NAAC will not be liable for the consequences arising out of such a rejection including refund of the fees or any other expenditure incurred by the institution in the process.

For any further clarification kindly log on to NAAC website www.naac.gov.in or contact the Help Desk Phone Numbers 080-23005192 / 080-23005193 and may also contact CAPU-NAAC through e-mail capusouth@gmail.com

Yours sincerely

For CAPU

ANNEXURE – 5



Government of India
Ministry of Human Resource Development
Department of Higher Education
Statistics Division
New Delhi

Certificate

Reference No. C-23901-2015

This is to certify that sambasivarao gutta of Sir C.R.R. College Of Engineerng has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2015-2016.

(B N Tiwari)
Deputy Director General

Dated: 24/11/2016