



## School of Engineering

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- Department of General Engineering and Humanities
- Department of Computer Science and Engineering
- Department of Electronics and Communication Engineering
- Department of Electronics and Electrical Engineering
- Department of Information Technology
- Department of Mechanical Engineering
- Department of Industrial Biotechnology



# Department of General Engineering and Humanities

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## Evaluative Report of the Department

- 1. Name of the Department: General Engineering Science & Humanities, School of Engineering & Technology**
- 2. Year of establishment: 2005-06**
- 3. Is the Department part of a School/Faculty of the university?: Yes**
- 4. Names of programmes offered: General Engineering Science & Humanities Subjects to B.Tech**
- 5. Interdisciplinary programmes and departments involved: B. Tech, MBA programme** offered in collaboration with Department of Management Studies, SPMVV
- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.**
- 7. Details of programmes discontinued, if any, with reasons:**

IT (one section) discipline was discontinued as students are interested to join in Computer Science and Engineering course and accordingly the strength of CSE doubled.
- 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:**

Examinations are conducted Semester wise with project works in final semester. CBCS will be implemented from 2015-2016 onwards
- 9. Participation of the department in the courses offered by other departments:**

Subjects of General Engineering Science & Humanities viz Mathematics, Environmental Studies, Financial Accountancy, Management Science, Operations Research, etc, of all the departments are handled by the GESH Department.



**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	-
Associate Professors	-	-	-
Asst. Professors/ Academic Consultants on Contract Basis	11	9	Regular
Others (Guest Faculty)	3	3	-

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil students guided for the last 4 years
Prof. C. Eswara Reddy	M.Tech (Mech), Ph.D.	Director and Head(I/C), EEE, MECH,	Robotics	30	4
Dr. V. Jagadeeswari	M.Com, LLM, Ph.D.	Academic Consultant	Accounts and Management	10	-
Dr. P. Jeevana Lakshmi	M.Sc, Ph.D. CSIR-NET	Academic Consultant	Applied Microbiology	7	-
Ms. J. Reddy Pavani	M.A., M.Phil, SET (Ph.D)	Academic Consultant	English Literature	4	-
Dr. K. Sreenivasa Reddy	M.B.A., M.A. (Eng), Ph.D.	Academic Consultant	English Literature	5	-
Mr. B. Rajesh	M.B.A., M.Com, NET&SET	Academic Consultant	Accounts and Management	4	-
Dr. A. Haritha	M.Sc, Ph.D.	Academic Consultant	Mathematics	4	-
Dr. A. Sreenivasulu	M.Sc, Ph.D.	Academic Consultant	Mathematics	4	-
Ms. N. Sujatha	M.Sc, Ph.D.	Academic Consultant	Mathematics	4	-
Ms. C.C. Sangeetha	M.Sc, M.Phil	Academic Consultant	Physics	4	-
N.Muni Chandra	M.A.M.E.D. M.Phil	Guest Lecturer	English	10	-
Mr.Allah Bakshaw	M.SC (Ph.D)	Guest Lecturer	Physics	2	-

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

- i. Prof. A. Sreenivasa Rao, USA
- ii. Prof. G. Jayachandra Reddy, Professor of Mechanical Engineering, Principal, YVU YSR College of Engineering, Proddatur
- iii. Sri C. Subba reddy, Head, Dept. of Mechanical Engineering, VIST, Kavali
- iv. Dr. C. Bhaskar Reddy, Head, Dept. of Mechanical Engineering, SKIT, SriKalahasti

**13. Percentage of classes taken by temporary faculty - programme-wise information:**

Since SE&T was established on Self Finance basis, all the faculty are recruited on Contract Basis as per the requirements, qualifications and norms of AICTE and all the classes are taken by Academic Consultants (on contract) & Guest Lecturers.

**14. Programme-wise Student Teacher Ratio:**

- B.Tech - 20:1
- M.Tech - 12:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Since the SE&T established as Self Finance basis, all the staff (technical) and administrative staff are recruited on Contract Basis as per the requirements, qualifications and norms of AICTE

administrative staff :

Clerk : M.Kusuma

Attender : V.Sekhar Babu

**16. Research thrust areas as recognized by major funding agencies:**

- Robotics
- Electronics
- Nanotechnology
- VLSI

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.****18. Inter-institutional collaborative projects and associated grants received**

Inter-institutional collaboration with S.V.University

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR,AICTE, etc.; total grants received :**



Proposals for Rs.26 Crores were sent to UGC and State Government under RUSA which is under process.

#### 20. Research facility / centre with

Facilities are available for Research

#### 21. Special research laboratories sponsored by / created by industry or corporate bodies

Students are going for project work to Industry

#### 22. Publications:

S.No	Name of the Faculty	Publications		Seminars/ Conferences		Workshops		Books
		National	Inter-National	National	Inter-National	National	Inter-National	
1.	Dr. V. Jagadeeswari	7	3	13	3	1	-	-
2.	Dr.P.JeevanaLakshmi	-	5	4	1	-	-	-
3.	Dr. A.Haritha	2	7	5	2	-	-	1
4.	Ms. J. Reddy Pavani	1	1	11	2	1	-	-
5.	Ms. N.Sujatha	-	-	1	-	-	-	-
6.	Mr. B.Rajesh	-	-	2	1	-	-	-
7.	Mr. A.Sreenivasulu	-	2	1	-	-	-	-
8.	Ms. C.C.Sangeetha	-	4	2	2	1	1	-
9.	Dr. K. Sreenivasa Reddy	2	-	8	1	-	-	-

- Number of papers published in peer reviewed journals (national/ international)
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number 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 - range / average  
SNIP
- SJR
- Impact Factor – range/ average
- h-index

#### 23. Details of patents and income generated

#### 24. Areas of consultancy and income generated



**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

**26. Faculty serving in**

- Prof. C. Eswara Reddy Head I/C – AICTE Member

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

- Ms. J.Reddy Pavani acted as Organizing Committee Member in National Seminar on 7-8 Jan 2015 Dept. of English, SPMVV, Tirupati.
- Dr. V.Jagadeeswari attended One-Day Workshop on Start-Up Boot Camp Pre-Launch Program as Mentor on 23/1/2015 at JNTU ,Anantapur

**28. Student projects**

- Percentage of students who have done in-house projects including inter-departmental projects
- Percentage of students doing projects in collaboration with other universities / industry / institute

**29. Awards / recognitions received at the national and international level by**

- Dr. V.Jagadeeswari Dept. of GESH got best research paper award on the topic “Role of Youth in Community Empowerment in India” in the International Conference on Community Empowerment held at University of Mysore from 27-28 Feb 2015.
- Dr. P.Jeevana Lakshmi received Youth Scientist Award for presenting a paper on “Enhancement in Nutritive Value of Keratinase Treated Feather in the National Conference 23-24 Feb 2015.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

**31. Code of ethics for research followed by the departments:**

Projects are reviewed by internal & external committee members



**32. Student profile programme-wise: EAMCET/ECET/GATE/PGECET**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
<b>B.TECH :</b>					
CSE	EAMCET/ECET	-		-	
ECE					
EEE					
MECH					
IT					
IBT					
<b>M.TECH :</b>					
ECE	GATE/PGECET	-		-	
EEE					
CSE					

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
-	-	Statewide University (Under X Schedule)	-	-

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	95%
Employed Campus selection Other than campus recruitment	150
Entrepreneurs	



**36. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
of the same university	4
from other universities within the State	7
from universities from other States	1
from universities outside the country	-

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** 5 (enclosed)

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library
- b) Internet facilities for staff and students: Wi-Fi facility available
- c) Total number of class rooms: 21
- d) Class rooms with ICT facility: Under Process
- e) Students' laboratories:
  - ED-1 and WS-1 (Commonly used for all the Depts.)
  - English Language Lab of the University
- f) Research laboratories: available in the department

**39. List of doctoral, post-doctoral students and Research Associates:** UG&PG courses

- a) from the host institution/university
- b) from other institutions/universities

**40. Number of post graduate students getting financial assistance from the university**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.-** Based on

- To fill the gap between Institution & Industry
- Feedback collected from the student
- Feedback collected from the parents
- Feedback collected from the Academic Experts & Industry people
- Feedback collected from the Faculty





**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

-Feedback is collected from the faculty and required changes will be incorporated accordingly in curriculum and evaluation process

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

-Feedback is collected from the students and required changes will be incorporated accordingly in curriculum and allotting the subjects to the teachers

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

-Feedback is collected from the alumni and employers and required changes will be incorporated accordingly in framing the placement activities, curriculum and allotting the subjects to the teachers.

**43. List the distinguished alumni of the department (maximum 10)**

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**

- Special lectures from universities within the country and abroad on Robotics
- one day national level work shop on environment pollution in collaboration with pollution control board organized-----
- Awareness program on Energy Conservation organized to the students in association with Institute of Engineers (India Tirupati Local Chapter on Solar Energy)
- Invited Lecture on Energy Conservation Conducted on 17/12/2014. Resource person: Prof. Sheik Kalimulla , S.V.Agricultural College , Tirupati.
- ISTE Last Meeting of Joint Andhra Pradesh held at Saaveri Guest House
- Students organized annual Techno fest –VIRINCHI 2 years in 2010 & 2011
- Remedial coaching classes are conducted for SC, ST, BC and OBC students for their academic improvement.
- Academically poor students are given special training classes by the faculty
- Students are involved in routine Class room seminars, debates and class tests for their academic improvement.
- Students are imparted training in the development of communication skills, Soft skills, Entrepreneurship development skills, life skills etc.
- Students are encouraged to participate in different awareness programmes, rallies, Social service activities.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Lecture
- Demonstration
- A/V aids
- LCD Projectors, etc

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Monitoring the Teaching Learning process from time to time by the Committee, Internal assessment will be done and the results are displayed in the notice board by getting signatures of students.

**47. Highlight the participation of students and faculty in extension activities.**

- NSS Volunteers
- Sports
- Games
- Swatch Bharat – Every third Saturday
- Collection of funds for Flood to CM relief fund , Blind People Society etc

**48. Give details of “beyond syllabus scholarly activities” of the department:**

students are exposed to different awareness programmes on Environment, social issues, Rallies on AIDS, Voters Day,

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

AICTE

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

MOU with “ Sunrise Startups Incubation Centre, Kochi, Kerala” to start Incubation Centre for developing entrepreneurship skills among the students

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

- Strengths- Qualified staff, Labs and Equipment, Infrastructure
- Weaknesses- No Permanent Teaching Faculty
- Opportunities- To recruit Permanent Teaching, technical and non teaching Faculty
- Challenges- To make the courses as regular



## 52. Future plans of the department.

1. Proposal submitted through Govt.of India through university under RUSA for Rs. 26 crores to bring the access of higher education to women
2. To get the Permant Staff recruited
3. Proposal submitted for granting permission for sanction of regular faculty during 12<sup>th</sup> Plan ( 2012-2017)
4. Research Programmes
  - Since the departments have M.Tech programmes to modernize the labs and establish research centre in each department to meet the global standards.
  - Industry need based curriculum
  - To train and educate the students to get appointments/ jobs in SEZ, Mannavaram; SRI CITY where multinational companies around 30 are already established.
5. Skill development centre: MOOCSE, Adoption of rural village, BOOT camp, Provision for Gap Year
6. Entrepreneur Development Cell:
  - To modernize the courses with the skills to meet the 'MAKE IN INDIA' this is the motto of Govt. of India.



# Department of Computer Science and Engineering

## Evaluative Report of the Department: CSE

1. **Name of the Department:** Computer Science and Engineering.
2. **Year of establishment:** 2005 – 06.
3. **Is the Department part of a School/Faculty of the university?:** YES.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** B. Tech, M. Tech.
5. **Interdisciplinary programmes and departments involved:**  
CSE, IT, EEE, ECE, Mechanical.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**  
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7. **Details of programmes discontinued, if any, with reasons:**  
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8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Examinations are conducted Semester wise and with Project Work in final semester.CBCS is implemented form 2015-2016.

### 9.Participation of the department in the courses offered by other departments:

#### a. UG Course – B.Tech

SUBJECTS	YEAR/SEMESTER	DEPARTMENT
Computer Programming With Lab	I Year	Electronics
Computer Networks	III Year-II Semester	Communication
Computer Organization	IV- I sem	Engineering
Computer Programming With Lab	I Year	Electrical & Electronics
Computer Organization	IV- II sem	Engineering
Computer Programming With Lab	I Year	Mechanical Engineering



### b. PG Course – M.Tech

SUBJECTS	YEAR/SEMESTER	DEPARTMENT
Advanced Computer Architecture	I Year - I Sem	Electronics Communication Engineering
Natural Language Processing		
Multimedia Systems	I Year - II Sem	Electrical & Electronics Engineering
Natural Language Processing	I Year - I Sem	
Multimedia Systems	I Year - II Sem	

### Other Activities:

1. Sir C. V. Raman Block was constructed with an estimation amount of Rs 4.2 crores.
2. Opening of Sri Visvesvaraya Block on 13th July 2002 by Mr M. G. Gopal garu, IAS, Principal Secretary (HE) & Vice-Chancellor (FAC).
3. Bhoomi Pooja of Sri Mokshagundam Viweswaraya Block, SE&T on 16th Dec 2010 with an estimation cost of Rs .2.6 crores
4. Opening of 3rd floor of Sri Visvesvaraya block on 18th Sep2014 by GantaSrinivasa Rao garu, Honorable Minister for MHRD, Andhra Pradesh.
5. Construction of 3rd floor over Visweswaraya Block, SE&T on June 2013 by professor S. Ratna Kumari garu, Vice-chancellor of SPMVV, Tirupati With an Estimation Cost of Rs. 95 Lakhs.
6. M.Tech programs inaugurated by Professor S. Rathna Kumari garu, Vice-chancellor of SPMVV, Tirupati.

### 7. Placements:

YEAR	NO.OF STUDENTS	NAME OF COMPANY
2014 - 2015	2	TCS
2013 - 2014	3	TCS
2012 - 2013	9	CTS
2011 - 2012	15	TCS
	12	Unisys
	11	HCL
2010 - 2011	3	TCS
	5	Wirpo
	7	TechMahindra
	5	Convergys
	4	Unisys
	3	Satyam Mahindra



**8. External Activities:** Cultural Activities, Blood Bank, AIDS Awareness day, Voters day, VIRINCHI, Swatch Bharath.

### 9. Practicals

#### a. UG Course – B.Tech

Year	Semester	Department	Subject	Lab Programs
I		CSE	Computer Programming	33
II	I	CSE	Data Structures	18
			Java Programming	15
	II	CSE	Database Management System	15
			Assembly Language Programming in UNIX Environment	30
III	I	CSE	Systems Programming	20
			Object Oriented Software Design	15
	II	CSE	Computer Networks	15
			Microprocessors and Applications	17
IV	I	CSE	Compiler Design	16
			Computer Graphics	21
	II	CSE	Software Testing	25

#### b. PG Course – M.Tech

Year	Semester	Department	Subject	lab programs
I	I	CSE	Advanced Data Structures and Experimental Methods in Computer Science Laboratories	20
			Software Project Management	15
	II		Distributed Operating System and Cryptography and Network Security	20
			Advanced Database Management System	15

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	-
Associate Professors	-	-	-
Asst. Professors (Academic Consultants on Contract basis)	17	13	-
<b>Others:</b> Guest Faculty		1	-



**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of B.Tech/ M.Tech/ Ph.D./ M.Phil. students guided for the last 5 years
Prof. T. SUDHA	M.C.A, Ph. D	Professor, Head(I/C), Placement Officer	Computer Science	15	6
N.PADMAJA	M.Tech	Academic Consultant	CSE	09	12
A.SUPRIYA	M.Tech	Academic Consultant	CSE	05	12
M.SOUMYA HARIKA	M.Tech	Academic Consultant	CSE	02	7
E. RAMESH BABU	M.Tech	Academic Consultant	CSE	01	3
R. PADMINI	M.Tech	Academic Consultant	CSE	01	3
T.SIRISHA MADHURI	M.Tech	Academic Consultant	CSE	01	2
S NAVEEN KUMAR	M.Tech	Academic Consultant	CSE	01	1
H.VENKATESWA RA RAJU	M.Tech	Academic Consultant	CSE	01	11
J.BABU	M.Tech	Academic Consultant	CSE	04	-
P. SRIVYSHNAVI	M.Tech	Academic Consultant	CSE	04	8
G E ANVESH GOUD	B.Tech	Academic Consultant	CSE	01	1
SYED BASHA SHAIK	M.Tech	Academic Consultant	CSE	01	2
M.SETHU RAM	M.Tech	Academic Consultant	CSE	01	4
A.AMARNATH REDDY	M.Tech	Academic Consultant	CSE	02	5



**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

1. Prof A. Srinivasa Rao, USA
2. Ms K. Lavanya, Oracle Corporation, Hyderabad.
3. Prof. K.V. Kale, Dr. BabaSaheb Ambedkar University, Aurangabad.
4. Prof. K.V. Madhu Murthy, S.V. University.
5. Ms. M. Humera Khanam, S.V. University.

**13. Percentage of classes taken by temporary faculty - programme-wise information:**

7%. Guest faculties are recruited on Contract basis as per the requirements, qualifications and norms of AICTE.

**14. Programme-wise Student Teacher Ratio:**

B. Tech – 20:1 and M.Tech – 12:1.

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

Since SE&T established as Self-Finance basis, all the staff (Technical and Administrative staff recruited on Contract basis as per the requirements, qualifications and norms of AICTE.

NAME	ACADEMIC SUPPORT	NO. OF YEARS EXPERIENCE
Dr. C.S.Jhansi Lakshmi Bai	System Analyst (Permanent)	22
G. Pradeep	Technical Support	1
K.Vijaya Bharathi	Department Clerk	10
B.Chandra Sekhar	Department Attendar	2

**16. Research thrust areas as recognized by major funding agencies:**

Artificial Intelligence, Robotics, Cloud Computing, Grid Computing, Big Data, Neural Networks, Data Mining, Multimedia, Software Testing.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:**

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**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration                      b) International collaboration

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19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR,AICTE, etc.; total grants received.**  
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20. **Research facility / centre with**
- state recognition
  - national recognition
  - international recognition
- 
21. **Special research laboratories sponsored by / created by industry or corporate bodies: -----**
22. **Publications:**
- Number of papers published in peer reviewed journals (national / international)
  - Monographs
  - Chapters in Books
  - Edited Books
  - Books with ISBN with details of publishers
  - Number 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 - range / average
  - SNIP
  - SJR
  - Impact Factor – range /average
  - h-index
23. **Details of patents and income generated: -----**
24. **Areas of consultancy and income generated: -----**
25. **Faculty selected nationally / internationally to visit other laboratories / institutions / Industries in India and abroad: -----**
26. **Faculty serving in**
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) -----
27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): -----**



**28. Student projects**

Percentage of students who have done in-house projects including inter-departmental projects: 100%

Name of the students	Project Title	Department	Project Guide
J.Hema Latha	Privacy Preserving Public Auditing for Shared data in the Cloud	IT	B.Sangamithra
A.Karnika			
V.Yesaswini			
M.Pranavi	Improving Networks I/O Virtualization for Cloud Computing	IT	B.R.Vamsi Krishna Naik
K.Rajeswari			
D.S.L Pragna			
T.Madhuri	GPS Location Based Tracking through Mobile	IT	B.R.Vamsi Krishna Naik
G.Mahathi			
D.Mary deepthi			
M.Mounika	A New Algorithm for Inferring User Search Goals With Feed back Sessions	IT	Dr.C.S.Jhansi Lakshmi Bai
S.Afifa			
S.Anjum Ara			
N.Sindhuja			

S No	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ Internati onal	ISSN/ISB N No	Impact Factor	H Index	Citation	Listed in Database
1.	T.Sudha	“A Pragmatic Approach for Readxing Number Plates of Indian Vehicles.” Neural Networks and its Applications Jan-June- 2010, Vol. 2-No. 2, pp 233-240, ISSN: 0974 -2107.	Internatio nal	ISSN: 0974 - 2107.				
2.	T.Sudha	“A Unified framework for searching Digital Libraries using for Document Clustering.” Computational Mathematical Ideas (ISSN : 0974-8652) Vol 2 – No.1, pp 28-32.	Internatio nal	ISSN : 0974- 8652)				
3.	T. Sudha	“Application of Partition Algorithms of Data Mining Clustering Techniques on Rainfall” Mathematics, Computer Sciences and Information Technology (ISSN: 0975 - 5580) Vol. 3, No. 2, July-Dec 2010, pp 329-338.	Internatio nal	ISSN: 0975 – 5580				



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4.	T.Sudha	“DEA Banking Technical Efficiency Data Mining Techniques” Computational Intelligence Research & Applications, July- Dec 2010, pp 129-135 Serial Publications, New Delhi (India).	Internatio nal					
5.	T.Sudha	“Building Classifications System to Predict Risk factors of Diabetic Retinopathy Using Text mining” Computer Science and Engineering, Vol. 2, No.07, pp.2309-2312, 2010.	Internatio nal					
6.	T.Sudha	“Classification of Medline documents wsing Global Relevant Weighing Schema” Computer Applications, Volume 16-No.3, pp-45-48, February, 2011, ISSN: 0975-8887. (ISSN: 0975-8887) Vol. 16- No.3, Feb 2011	Internatio nal	ISSN: 0975- 8887				
7.	T.Sudha	“Spoofing – A threat to Biometric Systems” Computer Science and Engineering, Volume 7, issue 2, June 2011.	Internatio nal					
8.	T.Sudha	“A Novel Feature Selection Method for Classification of Medical Documents from Pubmed” Computer Applications, Volume 26- No.9, PP-29-33, July, 2011, ISSN: 0975-8887.	Internatio nal	ISSN: 0975- 8887				
9.	T.Sudha	“Pre-Processing of Medical Documents and Reducing Dimensionality” Advanced Computing, Volume 2 - No.5, PP-15-24, September, 2011.	Internatio nal					
10.	T.Sudha	" Clustering Approaches to accord updates in the DataWare House", Forum of Researchers, Students and Academicians (IFRSA), ISSN: 2249 - 7161, ISSN: 2249 - 2186.	Internatio nal	ISSN: 2249 – 2186	1.7 6			
11.	T.Sudha	“Personal Identification Based on Human Iris.” Application & Innovation in Engineering Management (IJAIEEM), June 2013.	Internatio nal		2.3 79			



S No	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ Internati onal	ISSN/ISB N No	Impact Factor H Index Citation	Listed in Database
12.	T.Sudha	“Extraction of Biomedical- A Text Mining Approach.” Science, Environment and Technology, April-2013	Internatio nal		2.4 2	
13.	T.Sudha	“Extraction of Biomedical Information from Medline Documents- A Text Mining Approach.” Science, Environment and Technology, Vol. 2, No 2 ISSN 2278-3687.	Internatio nal	ISSN 2278- 3687	4.7 0	
14.	T.Sudha	“Medline Document Classification Model.” Multidisciplinary research Academy (IJMRA) ISSN 2249-0558.	Internatio nal	ISSN 2249- 0558	4.0 77	
15.	T.Sudha	“Comparison of Wavelet based Water Marking Techniques using SVD.” Proceedings of the International Conference on Image Processing, Computer Vision and Pattern Recognition, Vol-2, July 16-19, 2012, Las Vegas, Nevada, USA.	Internatio nal			
16.	T.Sudha	"Secure Multiparty Computation Using Homomorphic Encryption" Mobile and ADHOC Networks (IJMAN), August 2012.	Internatio nal			
17.	T.Sudha	“ Smishing – Cyber Threat Analysis of Mobile Devices” Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 13-16.,2012	National			
18.	T.Sudha	“Secure Group Communication in Wireless Adhoc Networks Using Neighborhood Key.” Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 216-220., 2012	National			
19.	T.Sudha	“SMS Transmission By LZW	National			



S No	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ Internati onal	ISSN/ISB N No	Impact Factor	H Index	Citation	Listed in Database
		Compression and Public Key Encryption”Proceedings of the book “Emerging Trends in communication and Information Systems Security”, page no. 305-310, 2012.						
20.	T.Sudha	“Comprehensive Study on Watermarking Techniques Using SVD and Transformation” Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 311-315, 2012.	National					
21.	T.Sudha	Computer Forensic Vs Anti Computer Forensic Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page81-88	National					
22.	T.Sudha	"Modeling Nonlinear Applications Using Regression Trees" Datawarehousing and Datamining, Vol. 2, Issue. 2, ISSN(Online) : 2249-2186, print: 2249-7161.	Internatio nal	ISSN: 2249- 2186				
23.	T.Sudha	“Indexing Of Medline Documents. A Text Mining Approach” Latest research in Science & Technology. Vol 2 Issue 1, ISSN : 2278-5299	Internatio nal	ISSN : 2278- 5299	0.4 80			
24.	T.Sudha	“Extraction Of Biomedical Information From Medline” Science, Environment and Technology, Vol. 2, No 2 ISSN 2278-3687.	Internatio nal	ISSN 2278- 3687.	4.7 0			
25.	T.Sudha	“IRIS – An Emergent Biometric Technology for Personal Authentication.” Current Engineering Research, Vol. 3, Issue 4, October 2013.	Internatio nal		6.3 924			
26.	T.Sudha	“A New Robust Image Cryptography Technique using Fractal Theory.” CIIT Digital Image Processing, Vol.	Internatio nal	ISSN 0974- 9691.	1.6 52			



S No	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ Internati onal	ISSN/ISB N No	Impact Factor H Index Citation	Listed in Database
		6, Issue. 1, January-2014, pp. 16-21, ISSN 0974-9691.				
27.	T.Sudha	“Comprehensive study of Watermarking Techniques using Different Transformations.” Application or Innovation in Engineering & Management (ISAIEM), Vol.3 Issue 2 February-2014, Pg No 87-91.	Internatio nal		3.1 15	
28.	T.Sudha	“Dilation and Erosion Operations Utilizing for Arbitrary Structuring Element.” Graphics and Image Processing (IJGIP), Vol. 3, Issue. 3, pp- 170-175, ISSN 2249:5452.	Internatio nal	ISSN 2249:5 452.	3.2 6	
29.	T.Sudha	“Performance Evaluate of Watermarking Technique Applying Wavelet Transformation in different Bands.” Graphics and Image Processing. February-2014, pg no 52-55	Internatio nal		1.4 8	
30.	T.Sudha	“Novel Spatial and Transform Domain Image Encryption Algorithms.” IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Vol. 4, Issue 2, Ver. II (Mar-Apr. 2014), PP 38-45.	Internatio nal		1.4 58	
31.	T.Sudha	“Evaluation of Wavelet Transformations in Different Bands by Applying Noise” “Computer Science Engineering and Information Technology Research”, ISSN (Online) : 2249-7943	Internatio nal	ISSN: 2249- 7943	6.8 785	

**PUBLICATIONS**



S No	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ ISBN No	Impact	H Index	Citation Index	Listed in Database
1.	P. Srivyshnavi	BOOK: Modeling for Software Quality Assurance Focus on SDLC Processes	International	978-3-659-43626-0				
		Criteria for Selection of Regresses in Econometrics Variable Selection Methods	International	978-3-659-45768-5				
		Some New Selection Techniques for Linear Statistical Models- Model Selection Procedures	International	978-3-659-50277-4				
2.	T.Sirisha Madhuri	“Constant Supervision of Location Based Spatial Queries in Wireless Broadcast Medium Using Peer-To-Peer Sharing.”	International	ISSN : 2320-6586	1.57			
3.	E.Ramesh Babu	“ Optimizing Search Performance in Unstructured Peer to Peer Networks Using Enhanced Search Protocol” in IJARCSSE Vol-3, Issue-8.	International	ISSN(Online): 2277 128X	2.0			
		“Survey on A-Label-Based Super node Selection Protocol Performance and Token-Based in Peer to Peer Networks” Vol-4, Issue-8	International	ISSN: 2231-5381	0.87			
4.	P. Amaranatha Reddy	A Dynamic Solution for Association Rules Mining	International	ISSN:2230-8504				
5.	M.Soumya Harika	“Clustering Among Multi-Posture Based Correspondence Compute ” Vol:1 issue :6 Aug 2012	International	ISSN:2278-1323	2.793			

Percentage of students doing projects in collaboration with other universities industry / institute:



NAME OF THE STUDENT	PROJECT TITLE	PROJECT GUIDE	COMPANY NAME
B.Bhagya Lakshmi	Protection of Shared Data using Auditing in Public Cloud	M.SethuRam	Young Minds Technology Solutions pvt. Ltd.
K. Devi	Filling of Data Gaps in Sea Surface Temperatures using Hadoop based Neural Networks	B. Sangamithra	INCOIS, Hyderabad
T. Divya	Cloud Assisted Mobile Access of Privacy Preserving Audited Mobile Data	J.Babu	IRAJ Research Forum, Bangalore
V. Gayathri	Green Droid – Automated Diagnosis of Energy Inefficiency for Smart Phone Applications	A.Amarnatha Reddy	SAHASRA IT Services
B.Hima Bindu	Supporting Privacy protection in Personalised Web Search	A.Supriya	Young Minds Technology Solutions pvt. Ltd.
C.Kavitha	Enabling Data Integrity Protection in Cloud Based Storage	M.Soumya Harika	Young Minds Technology Solutions pvt. Ltd.
T.Sree Sravya	Garbling the Dynamic Data with NLP Environment	T. Sirisha Madhuri	ADRIN Labs
B.Mounika	Smart Café – A Mobile Local Computing System Based on Indoor Virtual Cloud	Syed Basha Sheik	SAHASRA IT Services
S.Naveena Priya	Blood Group Search Portal using Medi +	R.Padmini	NIIT, Kolkatta
K.Sree Prasanna	Mobile Wallet	E. Ramesh Babu	Varaha Consulting Pvt. Ltd., Hyderabad
M.Supraja	Auto Care	N.Padmaja	APPS Reach Pvt. Ltd, Bangalore
M.Krishna Kumari	Securely Outsourcing Attribute – based Encryption with Check Ability.	H.Venkateswara Raju	Koushik Web Solutions Pvt. Ltd, Hyderabad.

## 29. Awards / recognitions received at the national and international level by





- Faculty
- Doctoral / post doctoral fellows
- Students

NAME OF THE STUDENT	EVENT NAME	DATE OF PARTICIPATION
B.V.L . Sai Srujana	1 <sup>ST</sup> Women's Taekwondo Championship	08-03-2015
B.V.L . Sai Srujana	Table Tennis	2014-2015
C. G. Harshitha	Shuttle	2013-2014
C. G. Harshitha	Throw Ball	2013-2014
T. H. Vijaya Madhavi	NCC	2014
G. Vasavi	1 <sup>ST</sup> Women's Taekwondo Championship	08-03-2015
G. Vasavi	4*100 Mts Relay	2014-2015
G. Vasavi	100 Mts	2014-2015
G. Vasavi	Throw Ball	2014-2015
G. Vasavi	Kho-Kho	2014-2015
Bhavana	Mono Action	2014-2015
Pranavi	Group Discussion	2013
D. J.Sriya	Western Solo Vocal	2012
M. Pranavi	Event: Spontaneous Round	2014
D.J. Sriya	Event: Spontaneous Round	2014
A. Rajitha	Event: Poster Presentation	2012

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:**

1. One day Seminar on Pollution Control sponsored by Pollution Control Board of Andhra Pradesh.

NAME OF THE STUDENT	NATIONAL/ INTERNATIONAL/ WORKSHOP	TITLE	DATE OF PARTICIPATION
B.V.L . Sai Srujana	National	Nation Wide Energy Conservation Mission	18-12-2014
P. Deepthi	National	Android Technology	19-03-2015
P. Deepthi	Workshop	Ethical Hacking	04-08-2014
P. Deepthi	Workshop	Artificial Intelligence and Robotics	27-03-2014
P. Deepthi	National	Secure and Verifiable	23-03-2015



NAME OF THE STUDENT	NATIONAL/ INTERNATIONAL/ WORKSHOP	TITLE	DATE OF PARTICIPATION
		Policy Update Outsourcing for Big Data Access Control in the Cloud	
P.A.Leena	National	Agent Based Interactions and Economic Encounters in Intelligent Cloud	14-03-2015
C.G.Harshitha	National	Artificial Intelligence and Robotics	27-03-2014
C.Bhargavi	National	Green Computing	19-03-2015
P.A. Leena	National	Nation Wide Energy Conservation Mission	08-12-2014
G. Charishma	Workshop	Ethical Hacking & Information Security	06-03-2015
S. Anitha	National	Nation Wide Energy Conservation Mission	18-12-2014
C. Bhagavathi	National	Nation Wide Energy Conservation Mission	18-12-2014
P. Deepthi	National	Nation Wide Energy Conservation Mission	18-12-2014
M. Pranavi	National	Dragon Flyers	19-01-2015
M. Pranavi	National	Artificial Intelligence and Robotics	26-03-2014
J. Hemalatha	National	Artificial Intelligence and Robotics	26-03-2014
D.J. Sriya	Workshop	Artificial Intelligence and Robotics	2014
B. Pooja	National	Engineer's Eye	2014
A. Rajitha	Workshop	Artificial Intelligence	2014
G. Bhargavi	HCL	Emo Spark	2014
G. Bhargavi	Workshop	Artificial Intelligence and Robotics	2014
<b>G. Bhargavi</b>	<b>Award</b>	<b>Best Outgoing Student</b>	<b>2011-2015</b>

31. Code of ethics for research followed by the departments: -----



**32. Student profile programme-wise: B. Tech and M. Tech**

**a. UG Course – B. Tech**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2014-2015	120	NA	110	NA	-*
2013-2014	120	NA	108	NA	98%
2012-2013	120	NA	120	NA	96%
2011-2012	60	NA	60	NA	97%
2010-2011	60	NA	60	NA	95%

**b. PG Course – M. Tech:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2014-2015	24	NA	12	NA	-*
2013-2014	24	NA	13	NA	-*

**33. Diversity of students:**

**(a) UG Course: B.Tech**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.Tech – CSE	Through EAMCET /ECET 100%	State Wide University from all Universities under 10 <sup>th</sup> Schedule (AP+Telanagana) 100%	-	-



## (b) PG Course – M.Tech

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M. Tech – CSE	Through PGECET/ GATE 100%	State Wide University from all Universities under 10 <sup>th</sup> Schedule (AP+Telanagana) 100%	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

1. P. Malleswari has selected for Preliminaries in Civil Services in the year 2011-12.
2. M. Mounika has selected for GRE with the score of 313.
3. M. Mounika has selected for TOEFL with the score of 107/120.
4. B. JeevanaKala has selected for GRE with the score of 290.
5. B. JeevanaKala has selected for TOEFL with the score of 81/120.

35. Student progression:

Student progression	Percentage against enrolled
UG to PG	95%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	YES
Entrepreneurs	-



### 36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	98%
from universities from other States	-
from universities outside the country	2%

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

-----

### 38. Present details of departmental infrastructural facilities with regard to

#### a) Library:

Department	University
250 Volumes of Books are Available	740 Volumes of Books are Available

b) Internet facilities for staff and students: Wi-Fi facility available.

c) Total number of class rooms: 13 classrooms available.

d) Class rooms with ICT facility: -----

e) Students' laboratories:

UG(B.Tech)-16 laboratories available

SUBJECT	DEPARTMENT	YEAR/SEM
Computer Programming	CSE	I Year
Electronic Material & Devices	ECE	I Year
Communicative English	GESH	I Year
Engineering Drawing	Mechanical Engg	I Year
Workshop	Mechanical Engg	I Year
Data Structures	CSE	II Year – I Sem
Java Programming	CSE	II Year – I Sem
Database Management System	CSE	II Year – II Sem



SUBJECT	DEPARTMENT	YEAR/SEM
Assembly Language Programming	CSE	II Year – II Sem
System Programming	CSE	III Year – I Sem
Object Oriented Software Design	CSE	III Year – I Sem
Computer Networks	CSE	III Year – II Sem
Microprocessors and Applications	ECE	III Year – II Sem
Compiler Design	CSE	IV Year – I Sem
Computer Graphics	CSE	IV Year – I Sem
Software Testing	CSE	IV Year – II Sem

**PG(M.Tech)-** 4 Laboratories available

SUBJECT	DEPARTMENT	YEAR/SEM
Advanced Data Structures and Experimental Methods in Computer Science.	CSE	I year I sem
Software Project Management		
Distributed Operating Systems And Cryptography and Network Security.		I year II sem
Advanced Database Management Systems.		

f) **Research laboratories:** -----

**39. List of doctoral, post-doctoral students and Research Associates**

- a) **from the host institution/university**
- b) **from other institutions/universities**

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**40. Number of post graduate students getting financial assistance from the University:**

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**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:**

-----

**42. Does the department obtain feedback from**

- a) **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**



- b) **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
- c) **Alumni and employers on the programmes offered and how does the Department utilize the feedback?**

Parents, Faculty and Other Visiting Fellows, Industry People and those suggestions will be incorporated in framing Curriculum.

**43. List the distinguished alumni of the department (maximum 10)**

S.No	Name of the student	Passed out Year	Company/ Organization	Designation
1	C. Lakshmi Pavani	2013	TCS	Assistant Systems Engineer
2	P. Aiswarya	2013	TCS	Assistant Systems Engineer
3	A. Navya	2013	TCS	Assistant Systems Engineer
4	Jeevitha	2013	TCS	Assistant Systems Engineer
5	S. Reshma	2013	TCS	Assistant Systems Engineer
6	B. Sukeethi Krishna	2013	TCS	Assistant Systems Engineer
7	K. Charitha	2013	TCS	Assistant Systems Engineer
8	O. Pushpalatha	2013	TCS	Assistant Systems Engineer
9	D. Anitha Sahithi	2013	TCS	Assistant Systems Engineer
10	A. Anusha	2013	FAI	Jr. Software Engineer
11	Sailaja	2013	IBM	Jr. Software Engineer
12	Bujjamma	2013	XM Software Solutions	Jr. Software Engineer
13	Mamatha	2013	SYNTEL	Jr. Software Engineer

**44. Give details of student enrichment programmes (special lectures / workshops/ seminar) involving external experts.**

- Special Lectures from Universities within the Country and Abroad.
- Students attend Workshops, Seminars and Inter-Collegiate Technical Events.
- Students organize annual Techno Fest – VIRINCHI.
- Remedial coaching classes are conducted for SC, ST, BC and OBC students for their academic improvement.
- Academically poor students are given special Training classes by the Faculty.
- Students are involved in routine Class room Seminars, debates and class tests for their academic improvement.
- Students are imparted training in the development of Communication skills, Soft skills, Entrepreneurship development skills, JKC, Career Launcher to develop Placement skills.



- Students are encouraged to participate in different awareness programmes, rallies and Social service activities.
- 45. List the teaching methods adopted by the faculty for different programmes:**  
Black Board, LCD Projector and Audio/Video aids.
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**  
Monitoring the Teaching – Learning process from time to time by the Committee Internal Assessment, Subject wise Seminars, Group Discussions, JAM.
- 47. Highlight the participation of students and faculty in extension activities:**  
NSS, Sports, Games, Swatch Bharath, Collecting Funds for Flood Relief etc and other programmes like Blood Bank.
- 48. Give details of “beyond syllabus scholarly activities” of the department:**  
Students are exposed to different Awareness Programmes on Environment, Social Issues, Rallies on AIDS, Voters day.
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:**  
AICTE, UGC.
- 50. Briefly highlight the contributions of the department in generating new Knowledge, basic or applied:**
- Smart Village
  - MOU with “Sunrise startups incubation center, Cochin, Kerala and Andhra Pradesh to start incubation center for developing entrepreneurship skills among the students.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**
- 1. Strengths** – Qualified Staff, Laboratories and Equipment, Infrastructure.
  - 2. Weakness** – No Permanent Teaching Facility.
  - 3. Opportunities** – Opportunity to get the employment in Industries, Software Companies and Teaching.
  - 4. Challenges** – To make the Research Laboratories to meet the global needs.
- 52. Future plans of the department:**
- To get the Permanent Staff.
  - Research Programmes.
  - Industry need based Curriculum.





# Department of Electronics and Communication Engineering

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## Evaluation Report

### Department of Electronics and Communication Engineering

1. **Name of the Department:** School of Engineering & Technology
2. **Year of establishment:** 2005-2006
3. **Is the Department part of a School/Faculty of the university?** Yes
4. **Names of Programs offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**
  - B.Tech : (a) CSE (b) ECE (c) EEE (d) Mechanical
  - M.Tech: ECE(DECS) (b) CSE( CSE) (c) EEE(PEDR) (d) MECH(MD)
4. **Interdisciplinary programs and departments involved:** B. Tech with MBA
5. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
7. **Details of programmes discontinued, if any, with reasons:** (a) IT (b) IBT
  - No Admissions of students
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester, CBCS – will be implemented from 2015-2016



**9. Participation of the department in the courses offered by other departments:**

**(a) UG: B.Tech:**

S. No	Year/ Sem	Dept	Subjects	No. of sections
1.	I	EEE,CSE	Electronic Devices and Materials	1+2
2.	II/I	EEE	- Signals and Systems - Logic Circuits - Electromagnetic fields - Electronic Circuits - Pulse and Digital Circuits	- 1 - 1 - 1 - 1 - 1
3.	II/I	CSE	Digital Logic Design	2
4.	II/II	ME	Basic Electronics Engineering	1
5.	III/I	EEE	Analog and Digital IC Applications	1
6.	III/I	EEE, CSE	Communication Systems	1+2
7.	III/II	CSE	Microprocessors and applications	2
8.	IV/I	EEE	i. VLSI Design ii. Microprocessor and Interfacing	1 1
9.	IV/II	CSE	Embedded Systems	2

**(b) PG:M.Tech:**

S.No	Semester	Department	Subjects	No. of sections
1.	I/I	EEE	Advanced Digital Signal Processing	1
2.	I/I	CSE	Low Power VLSI Image Processing and Pattern Recognition	1 1

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	-
Associate Professors	-	-	-
Asst. Professors/ Academic Consultants on Contract(Regular)	22	20	-
Others(Guest Faculty)	-	2	-



### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

S.No	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D/M.Phil. Students guided for the last five years	No. of projects guided for last five years Tech/ M.Tech)
1	Prof. T.Suresh Kumar	M.Sc, Ph.D	Head(I/C)	Electronics	25	2	-
2	V.RajaRajeswari	M.Tech	Academic Consultant	Electronic instrumentation and communication systems	11	-	8
3	N.Ramesh	M.Tech	Academic Consultant	Embedded systems	7	-	8
4	P.Subba Lakshmi	M.Tech	Academic Consultant	Electronic instrumentation and communication systems	5	-	7
5	A. Sai Suneel	M.Tech	Academic Consultant	Digital Electronics & Communication Systems	6	-	10
6	M.KrupaSwaroop Rani	M.Tech	Academic Consultant	Digital Electronics & Communication Systems	7	-	5
7	K.Prasanthi	M.Tech	Academic Consultant	Communication Systems	6	-	6
8	S.Rohini	M.Tech	Academic Consultant	VLSI Design	2	-	2
9	V. Swathi	M.Tech	Academic Consultant	VLSI -SD	5	-	10
10	C.VamsiVarshika	M.Tech	Academic Consultant	VLSI	2	-	2
11	R.Sankeerthana	M.Tech	Academic Consultant	VLSI	2	-	2
12	M.Chaitanya	M.Tech	Academic Consultant	VLSI-SD	2	-	1
13	V.Somesh	MS	Academic Consultant	Embedded system design	5	-	3
14	M. MuniSankar	M.Tech	Academic Consultant	Digital Electronics & Communication Systems	3	-	12
15	M.Suresh	M.Tech	Academic Consultant	VLSI-SD	1	-	1
16	K.Nalini	M.Tech	Academic Consultant	DECS	5	-	5
17	M.A.Eunice	M.Tech	Academic Consultant	ES	5	-	5
18	P.Gouthami	M.Tech	Academic Consultant	Communication Systems	3	-	4
19	B.Madhavi	M.Tech	Academic Consultant	Digital systems & Computer Electronics	2	-	4
20	R.Kiran Kumar	M.Tech	Academic Consultant	VLSI-SD	1	-	2
21	V.Gayatri	B.Tech (M.Tech)	Academic Consultant	ECE	4	-	4
22	Lasmika.A	M.Tech	Guest Faculty	Digital systems & Computer Electronics	2	-	-

### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:



Sl.No	Name of the Faculty	University/abroad	Topic	Year & Date
1.	Prof. A. Sreenivasa Rao	Prof. of Aerodynamics, Dept. of Aerodynamics and Mechanical Engineering, Ex. NASA, George Washington University, USA	Aerodynamics	
2.	Prof. ShaikKalimulla	SV Agricultural University	Energy Conservation Programme	17/12/2014
3.	Prof. K. V. MadhuMurthy	SV University	Natural Language & speech Processesing Artificial Intelligence Environmental Pollution	8/12/2013

### 13. Percentage of classes taken by temporary faculty - programme-wise information:

Since the SE&T established as Self Finance basis, all the faculty are recruited on Contract Basis as per the requirements, qualifications and norms of AICTE

### 14. Programme-wise Student Teacher Ratio:

- B.Tech : 20:1
- M.Tech : 12:1

### 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Since the SE&T established as Self Finance basis, all the staff (technical) and Administrative staffs are recruited on Contract Basis as per the requirements, Qualifications and norms of AICTE.

Technical Staff:

Post Sanctioned:

Filled:

S.No.	Name	Designation	Experience
1	M. Sujan Kumar	Technical Assistant	9
2	K. K. Kumari	Technical Assistant	4
3	P. RathnaKumari	Technical Assistant	2
4	U. Aruna	Technical Attendant	2



Administrative Staff:

Post Sanctioned:

Filled:

S.No.	Name	Designation	Experience
1	N. Sulochana	Clerk	5
2	M. Eswaraiyah	Attendant	7

**15. Research thrust areas as recognized by major funding agencies:**

- Signal Processing
- Image Processing
- Embedded Systems
- VLSI
- Robotics
- Wireless Communication
- Nano Technology

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:----**

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration                      b) International collaboration

----

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: ----**

**20. Research facility / centre with**

- State recognition
- National recognition – S V University/JNTUs(JNTUA,JNTUH,JNTUK)
- International recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies : ----**

**21. Publications:**

- Number of papers published in peer reviewed journals(national/international)
- Monographs ,Chapters in Books,Edited Books,Books with ISBN with details of publishers ,Number 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 - range / average,SNIP ,SJR
- Impact Factor - range / average, h-index



S. No.	Name of the Faculty	No. of Publications		No. of Papers Presented		No. of Workshops		Books
		Nat.	Int.	Nat.	Int.	Nat.	Int.	
1	Prof. T.Suresh Kumar	38	12	23	17	13	3	
2	V.RajaRajeswari	1	2	3	2	5	3	-
3	N.Ramesh	3	2	1	5	20	3	-
4	P.Subba Lakshmi	1	-	3	1	6		-
5	A. Sai Suneel	1	12	9	1	2		-
6	M.KrupaSwaroopaa Rani	1	2	2	-	3		-
7	K.Prasanthi	-	2	-	-	5		-
8	S.Rohini	-	-	1	-	3		-
9	V. Swathi	-	3	4	2	3		-
10	C.VamsiVarshika	1	-	1	2	2		-
11	R.Sankeerthana	-	1	2	-	1		-
12	M.Chaitanya	-	1	-	1	4		-
13	V.Somesh	2	2	2	2	5		-
14	M. MuniSankar	2	3	2	-	7	1	-
15	M.Suresh	-	1	3	2	3		-
16	K.Nalini	-	6	3	3	2		-
17	M.A.Eunice	-	1	1	-	3		-
18	P.Gouthami	-	-	2	-	1		-
19	B.Madhavi	1	-	1	-	-		-
20	R.Kiran Kumar	1	-	-	-	1		-
21	V.Gayatri	-	-	-	-	4		-

23. Details of patents and income generated: ----

24. Areas of consultancy and income generated : ----

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

- N.Ramesh – IITB/Mumbai

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- A. Suresh Kumar- Co Ordinator of Physics/ HOD (I/c) of ECE

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- N. Ramesh-IIT Bombay
- A. Sai Suneel –ISTE Program
- K. Prasanthi- UGC Program

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities / industry / institute

**29. Awards / recognitions received at the national and international level by**

- Faculty:**
  - N. Ramesh - Best Teaching Methodology for Effective learning in Engineering & Technology, IIT Bombay.
  - A .Sai Suneel – LV Prasad Memorial Gold medal, JNTU, Ananthapur.
- Doctoral / post-doctoral fellows: PDF Sandhya and Sridevi
- Students:

S. No.	Academic Year	Year	No. of Students attended Workshops & Presentations
1	2014-2015	IV	20
2	2014-2015	III	150
3	2014-2015	II	4

Academic Year	Name of the course	Universities/ Industry/ Institute	% Of In-House Projects
2014-2015	B.Tech	-	100%
2014-2015	M.Tech	16.6 % in industry	83.33%

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

- Environmental Pollution-Sponsored by Pollution Control Board of Andhra Pradesh.

**31. Code of ethics for research followed by the departments: ---****32. Student profile Programme-wise:**

B.Tech (EAMCET & ECET)

Name of the Programme: Department of ECE



Year	Sanctioned	Admitted	Pass percentage
		Female	Female
2014-15	60	58	Awaiting
2013-14	60	57	94%
2013-12	60	55	93%
2012-11	60	59	97%
2011-10	60	56	96%

### 33. Diversity of students

#### (a) UG: B.Tech.

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
ECE	100%	State Wide Universities from all Universities under 10 <sup>th</sup> schedule (AP +Telangana) 100%	-	-

#### (b) PG: M.Tech.

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
DECS	5%	95%	-	-

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

S.No	Year	Examination	No. of qualified students
1	2014-2015	GATE	-
2	2013-2014	GATE	2
3	2012-2013	GATE	4
4	2011-2012	GATE	12
5	2010-2011	GATE	9





### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	95%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
Campus selection	60
Other than campus recruitment	3
Entrepreneurs	-

Placement Details:

Sl.No.	Academic Year	Number of Students Selected
1.	2014-2015	17
2.	2013-2014	6
3.	2012-2013	9
4.	2011-2012	15
5.	2010-2011	16

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	10%
from other universities within the State	90%
from universities from other States	-
from universities outside the country	-

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: ----

38. Present details of departmental infrastructural facilities with regard to

a) **Library:**

University	Department	Total
354	98	452

b) **Internet facilities for staff and students:** Wi-Fi facility availablec) **Total number of class rooms:** 9

Tutorial: 2

Total: 11

d) **Class rooms with ICT facility:** 2e) **Students laboratories:****Course:** B.Tech-11

S.No	Name of the Lab	Year/Semester	Branches
1	EMD lab	I	Common for all 5 Branches (Except for ME)
2	Electronic Circuits Lab	II/I	ECE(A&B)+EEE
3	Pulse & Digital Circuits Lab	II/II	ECE(A&B)+EEE
4	Analog IC Applications Lab	III/I	ECE(A&B)+EEE
5	Analog Communication Lab	II/II	ECE(A&B)
6	DSP lab	III/I	ECE(A&B)
7	Micro Processor Lab	III/II	ECE(A&B)+EEE+CSE
8	Digital Communication Lab	III/II	ECE(A&B)
9	Microwave Lab	IV/I	ECE(A&B)
10	Advanced Communication Lab	IV/II	ECE(A&B)
11	VHDL Lab	IV/I	ECE(A&B)

**Course:**M.Tech-4

S.No	Name of the Lab	Year/ Semester	Branch
1	Optical Communication Lab	I/II	DECS
2	Image Processing Lab	I/II	DECS
3	Signal Processing Lab	I/I	DECS +PEDR
4	Digital System Design Lab	I/I	DECS

f) **Research laboratories:** Under Processing**39. List of doctoral, post-doctoral students and Research Associates: UG&PG courses**



- a) from the host institution/university : ----
- b) from other institutions/universities : ---

**40. No. of post graduate students getting financial assistance from the university : --**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Advice taken by conducting BOS meeting

**42. Does the department obtain feedback from**

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, feedback is collected from the faculty and required changes will be incorporated

- For establishment of new labs, purchase of modern equipment.
- To introduce modern electives & interdisciplinary electives.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, further improving teaching methodology to reach student in a better way

- by conducting Faculty Development Programs.
- By lesson plans.
- By Teaching notes.

c. Alumni and employers on the programs offered and how does the department utilize the feedback?

Feedback is collected from the alumni and employees and required changes will be incorporated accordingly in framing the placement activities, curriculum by introducing modern electives & interdisciplinary electives



#### 43. List the distinguished Alumni of the department

S.No.	Name of the student	Passed out Year	Company/ Organization	Designation
1	R. P. Jeevitha	2014	TCS	Assistant Systems Engineer Trainee
2	N. Madhuri	2014	TCS	Assistant Systems Engineer Trainee
3	C. Sindhura	2014	TCS	Assistant Systems Engineer Trainee
4	C. Sai Sruthi	2014	CTS	Jr. Assistant Systems Engineer Trainee
5	C. H. Dharthi	2014	CTS	Jr. Assistant Systems Engineer Trainee
6	M. Bhargavi	2013	TCS	Assistant Systems Engineer
7	GarimaMathur	2013	TCS	Assistant Systems Engineer
8	M. B. S. Kalyani	2013	TCS	Assistant Systems Engineer
9	B. Sravanthi	2013	TCS	Assistant Systems Engineer
10	A. RamyaRatnaSree	2013	TCS	Assistant Systems Engineer
11	S. Sneha	2013	TCS	Assistant Systems Engineer
12	V. Lavanya	2013	TCS	Assistant Systems Engineer
13	P. Sushmitha	2013	TCS	Assistant Systems Engineer
14	V. Asritha Lakshmi	2013	TCS	Assistant Systems Engineer
15	A. Mounika	2013	CTS	Jr. Software Engineer
16	K. Ravali	2013	Accenture	Jr. Software Engineer
17	R. Spandana	2013	Canara Bank	Probationary Officer
18	M. Anusha	2013	Andhra Bank	Probationary Officer
19	B. Sandhya	2013	Syndicate Bank	Probationary Officer
20	A. Divya	2013	CTS	Jr. Software Engineer
21	K. AnjanaRohini	2013	Infosys	Jr. Software Engineer
22	M. Swathi	2013	Tata Service Center	Jr. Software Engineer
23	D. Janani	2013	Accenture	Jr. Software Engineer
24	P. Sowmya	2013	Genpact	Jr. Software Engineer

#### 44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

- Special lectures delivered by Professors from SV University.
- Seminars are organized
- Students organized annual techno fest-VIRINCHI in 2010,2011 & 2012.



- Invited lecture on Energy Conservation conducted on 17<sup>th</sup> Dec 2014 by Prof Sheik Kalimulla, S.V. Agricultural college, Tirupati.
- Artificial Intelligence programme
- Environmental Pollution Programme:  
One day national level work shop on Environment Pollution in collaboration with pollution control board organization.
- Campus Recruitment Training
- JKC trains many students
- ISTE , Technical meeting-importance of technical education for women-lecture by Prof. D.N.Reddy , chairman, RAC, DRDO and UGC member of joint Andhra Pradesh held at SAVERI Guest House, SPMVV .
- Remedial coaching classes are conducted for SC,ST,BC & OBC Students for their academic improvement.
- Students are imparted training in the development of communication skills, soft skills, entrepreneurship development skills, life skills etc..
- Students are encouraged to participate in different awareness programs ,rallies social services activities.

**46. List the teaching methods adopted by the faculty for different programs.**

- Black board
- LCD Projector
- Audio visuals
- Demonstration

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Monitoring the Teaching Learning process from time to time by the Committee ( HOD, Coordinator, SV University Faculty)
- Internal assessment by conducting two internal tests for every semester and practicals.
- Group discussions
- Seminars on essential topics weekly twice.
- Assignments are given regularly.

**47. Highlight the participation of students and faculty in extension activities.**

- NSS
- Sports
- Games
- Swachh Bharat
- Collecting funds for Flood relief
- Clean and green
- Neeru-Chettu



S.No	Student Name	Roll no.	EVENT	Prize	Venue	Certified by
1	K.Bhargavi	1272005	100 mts Running race	1 <sup>st</sup>	SPMVV	Dept. of. Physical Education
2	V.Ramya	1272062	In the pond, on the bank	1 <sup>st</sup>	SPMVV Hostels	Hostel day
3	K.V.P.Lakshmi	127116	Volley ball	Winner	SPMVV	Dept. of. Physical Education
4	K.V.P.Lakshmi	127116	Kabaddi	Winner	SPMVV	Dept. of. Physical Education
5	K.V.P.Lakshmi	127116	Throw ball	Winner	SPMVV	Dept. of. Physical Education
6	K.Harshitha	1272017	Light Vocal Singing	2 <sup>nd</sup>	Bapatla Engg .college	BECTAGON 2K15
7	T.Lakshmi Tejaswini	1272034	Technical quize	2 <sup>nd</sup>	Bapatla Engg .college	BECTAGON 2K15
8	T.Lakshmi Tejaswini	1272034	Elocution	1 <sup>st</sup>	SPMVV	Annual day
9	T.Lakshmi Tejaswini	1272034	Mono action	1 <sup>st</sup>	SPMVV	Annual day
10	V.Sree Sai Durga	1372099	chess	winner	SPMVV	Dept. of. Physical Education
11	G.Padma	1372066	Grand 12 hour Aradhanotsavam	participati on	SPMVV	Dept. of. Physical Education
12	Medha	1372110	51 kgs to 57 kgs weight	participati on	SPMVV	Dept. of. Physical Education
13	A.Aswini	1372009	400 mts	1 <sup>st</sup>	SPMVV	Dept. of. Physical Education
14	A.Aswini	1372009	Kho kho	winner	SPMVV	Dept. of. Physical Education
15	R.Rohitha	1372078	kabaddi	winner	SPMVV	Dept. of. Physical Education
16	R.Rohitha	1372078	Throw ball	winner	SPMVV	Dept. of. Physical Education

**48. Give details of “beyond syllabus scholarly activities” of the department:** students are exposed to different awareness programmes on Environment

- social issues
  - 1) Conducted program on energy conservation.
  - 2) Swachh Barath conducted on every month 3<sup>rd</sup> Saturday in our college premises from 18<sup>th</sup>October,2014
- Rallies on HIV/AIDS& cancers
  - 1) Mass rally on HIV/AIDS conducted on 1<sup>st</sup> Dec,2013 and 1<sup>st</sup> Dec,2014
  - 2) Mass rally on Cancer day conducted on 4<sup>th</sup> Feb,2015
- Voters Day: Awareness given on 25<sup>th</sup> Jan,2015.



**49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.**

- Yes. (AICTE/ UGC)

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- MOU with startup Incubation Centre/entrepreneurship , Vishakhapatnam.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

- Strengths- Qualified staff, Equipment for labs & Infrastructure facilities
- Weaknesses- No Permanent Teaching, Technical and non-teaching Staff.
- Opportunities-
  - 1) Generation of Electro Cardio Graph (ECG) signal for the detection of abnormalities using MATLAB.
  - 2) Audio Processing using MATLAB.
  - 3) Biometric Applications using MATLAB.
  - 4) Motor applications like alarm using microprocessor.
- Challenges- To modernise the courses by adding add-on courses, to introduce Ph.D programs

**52. Future plans of the department**

- To get the Permanent Staff
- Research Programs
- Addition of interdisciplinary courses such as quality control and reliability engineering, robotics.
- To make Tirupati as a Knowledge HUB: The IIT and IISER foundation stone laid by Union minister for HRD Smriti Irani within a few kms near yerpedu mandal of Srikalahasti constituency, while IIIT campus has been planned in sathyavedu constituency near the Sri City Industrial hub , abutting the Vijayawada-chennai national highway.
- Recently, on 3<sup>rd</sup> April, 2015 the Chief Minister of Andhra Pradesh, Mr.N.CHANDRA BABU NAIDU laid the foundation stones for 11 International industrial units like Hero Honda, Rexam, Vermeiren, Cipy Pagel, KGI Clothing, Ayurved, Brindco, Power Gas, Konzept Poly Pro, Be' Rollex, Beva Silicones and Godawari Udyog. On SRICITY near Tirupathi.
- Further 28 JAPAN industries likely to come up.
- So our students have the opportunity to utilize and pursue their higher studies and for their employment



# Department of Electrical and Electronics Engineering

## Evaluative Report of the Department

1. **Name of the Department:** Electrical and Electronics Engineering (EEE),  
School of Engineering & Technology
2. **Year of establishment:** 2010
3. **Is the Department part of a School/Faculty of the university?** Yes
4. **Names of programmes offered (UG, PG)**  
(a) B. Tech: EEE (b) M. Tech: Power Electronics & Drives (PEDR)
5. **Interdisciplinary programmes and departments involved:** B.Tech, M.Tech
6. **Courses in collaboration with other universities, industries, foreign institutions, etc:** -  
--
7. **Details of programmes discontinued, if any, with reasons:** ---
8. **Examination System: Semester/Trimester/Choice Based Credit System:**  
Examinations are conducted Semester wise with project works in final semester.  
CBCS will be implemented from the Academic year 2015-2016 onwards
9. **Participation of the department in the courses offered by other departments**

S.No	Subject Code	Year /Sem	No. of Subjects	Department
1.	EEE-212	II-I	1	ECE
2.	EEE-224	II-II	1	ECE
3.	EEE-311	III-I	1	ECE
4.	EEE-224	II-II	1+1	MECH + CSE
5.	EEE-p-225	II-II	1	MECH





**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	-
Associate Professors	-	-	-
Asst. Professors/ Academic Consultants on Contract Basis	9	9	Regular
Guest Faculty	-	-	-

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

S No	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D./ M.P hil. Students guided for the Last 5 Years	Projects guided
1	Prof. C. Eswara Reddy	M.Tech (Mech), Ph.D.	Head(I/C), EEE	FMS	35	6	12
2	M. Pallavi	M.Tech EEE	Academic consultant	Electrical Power Systems	6	-	4
3	K.V. Sowmya	M.Tech EEE	Academic consultant	Power Electronics & Electrical Drives	2	-	4
4	K. Nirmala	M.Tech EEE	Academic consultant	Electrical Power Systems	4	-	4
5	A. Anusha Gayathri	M.Tech EEE	Academic consultant	Power Electronics & Drives	2	-	2
6	K. Karthik	M.Tech EEE	Academic consultant	Power Electronics & Electrical Drives	1	-	2
7	S.Maheen	M.Tech EEE	Academic consultant	Power Electronics	1	-	2
8	K. Swetha	M.Tech EEE	Academic consultant	Automotive Electronics	1	-	2
9	B.Mahitha	B.Tech EEE	Academic consultant	(M.Tech)	4	-	2
10	R. Asha Latha	B.Tech EEE	Academic consultant	(M.Tech)	1	-	-



**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

S.No.	Name of the Faculty	University/ abroad	Topic	Year & Date
1.	Prof. A. Sreenivasa Rao	NASA,USA	Aero Dynamics	8/10/2013
2.	Prof. Shaik Kalimulla	Agricultural University	Energy Conservation Programme	17/12/2014
3.	Prof. K. V. MadhuMurthy	SV University	Natural Language & speech Processesing	8/12/2013

**13. Percentage of classes taken by temporary faculty - programme-wise information since the SE&T established as self finance basis, all the faculty are recruited on contract basis as per the requirements, qualifications and Norms of AICTE: --**

**14. Programme-wise Student Teacher Ratio**

(a) B. Tech: 20:1 (b) M. Tech: 12:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Designation	Name
Technical Staff	S. Sayad
Clerk	P. Roja Ramani
Attendar	B. Sudhakar

**16. Research thrust areas as recognized by major funding agencies**

- Power systems
- SCADA
- Traction Control
- Power electronics

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: -**

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration: --      b) International collaboration : --



**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: ---**

**20. Research facility / centre with**

- State recognition: -
- National recognition: AICTE
- International recognition:

**21. Special research laboratories sponsored by / created by industry or Corporate bodies: ---**

**22. Publications:**

S.No.	Name of the Faculty	No. Of Publications (Journal and Book)		Papers Presented in International Seminars/ Conferences		Work shops		Books
		National	International	National	International	National	International	
1.	M.Pallavi	-	-	-	-	2	-	-
2	K.V.Sowmya	-	1	-	-	4	-	-
3	K.Nirmala	-	1	1	1	1	1	-
4	K.Swetha	-	-	-	1	-	-	-
5	K.Karthik	-	-	2	-	1	-	-
6	B.Mahitha	-	-	-	-	2	-	-
7	S.Maheen	-	-	-	-	-	-	-
8	A.Anusha Gayathri	-	-	-	-	-	-	-
9	R. Asha Latha	-	-	-	-	-	-	-

**23. Details of patents and income generated: --**

**24. Areas of consultancy and income generated: --**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: ---**

**26. Faculty serving in (a) National committees b) International Committees c) Editorial Books d) any other**

Prof. C. Eswara Reddy, Head I/C – AICTE Inspection Committee Member

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): ---**

**28. Student projects**

- Percentage of students who have done in-house projects including inter-departmental projects: 90%
- Percentage of students doing projects in collaboration with other universities / industry / institute: 10%

S No	Year	Total No of students	No. of Batches	No of Projects
1	2010-2014	59	13	13
2	2011-2015	53	14	14

**29. Awards / recognitions received at the national and international level by**

- Faculty: -
- Doctoral / post doctoral fellows -
- Students Events

Activities	Events	Cultural and Celebrations	Aptitude Test & Program
<b>Total No.of Students</b>	4	3	8

**30. Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

Activities	Seminars	National Workshops	General Workshops
Total No.of students	1	3	7

**31. Code of ethics for research followed by the departments:**

Projects are reviewed by internal & external committee members



### 32. Student profile programme-wise: EAMCET/ ECET

Name of the Programme (refer to question no. 4)	Applications received	Filled seats	Percentage
EEE(2014-2015)	60	54	90
EEE(2013-2014)	60	55	91.66
EEE(2012-2013)	60	58	96.7
EEE(2011-2012)	60	54	90
EEE(2010-2011)	60	59	98.33

### 33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG	20	80	---	---

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE /PGECET and other competitive examinations? Give details category- wise.

GATE: B.Anitha 16.74(percentile) Rank:28048

PGECET: 8

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	4%
Employed Campus selection Other than campus recruitment	1 ----
Entrepreneurs	----

### 36. Diversity of staff



<b>Percentage of faculty who are graduates</b>	
of the same university	---
from other universities within the State	88.8%
from universities from other States	11.2%
from universities outside the country	---

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: ---**

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library -300 volumes
- b) Internet facilities for staff and students: Wi-Fi facility available
- c) Total number of class rooms:  
B.Tech(4) M.Tech(1)
- d) Class rooms with ICT facility : 2
- e) Students' laboratories :  
(a) B. Tech- 11 (b) M. Tech-4

**(a) B. Tech**

1. Electronic Circuits Lab-II Year I Semester
2. Circuits and Networks Lab- II Year I Semester
3. Pulse & Digital Circuits Lab- II Year II Semester
4. Fluid Mechanics & Thermodynamics Lab- II Year II Semester
5. Electrical Machine -1 Lab- III Year I Semester
6. IC Applications Lab- III Year I Semester
7. Electrical Measurements Lab- III Year IISemester
8. Electrical Machines-II Lab- III Year II Semester
9. Power System Simulations Lab- IV Year I Semester
10. Power Electronics Lab-IV Year I Semester
- 11 . Micro Processor Lab-IV-II Semester

**(b) M. Tech**

1. Digital Control Systems Lab- M.Tech I Year, Isem
2. Signal processing Lab- M.Tech I Year, Isem
3. Electrical System Simulation Lab- M.Tech II Year, Isem
4. Power Converters Lab- M.Tech II Year, Isem

**39. List of doctoral, post-doctoral students and Research Associates : UG&PG**



- a) from the host institution/university: ---
- b) from other institutions/universities : ---

**40. Number of post graduate students getting financial assistance from the university:**  
-

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- To fill the gap between Institution & Industry
- Feedback collected from the student
- Feedback collected from the parents
- Feedback collected from the Academic Experts & Industry people
- Feedback collected from the Faculty

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

-Feedback is collected from the faculty and required changes will be incorporated accordingly in curriculum and evaluation process

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

-Feedback is collected from the students and required changes will be incorporated accordingly in curriculum and allotting the subjects to the teachers.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

-Feedback is collected from the alumni and employers and required changes will be incorporated accordingly in framing the placement activities, curriculum and allotting the subjects to the teacher

**43. List the distinguished alumni of the department: (maximum 10)**

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**



- Special lectures from universities within the country and abroad on Robotics
- one day national level work shop on Environment Pollution in collaboration with pollution control board organized-----
- Awareness program on Energy Conservation organized to the students in association with Institute of Engineers (India Tirupathi Local Chapter on Solar Energy)
- Invited Lecture on Energy Conservation Conducted on 17/12/2014. Resource person:
- Prof. Sheik Kalimulla, S.V. Agricultural College, Tirupathi.
- ISTE, Technical meeting- Importance of Technical Education for women-Lecture by
- Prof. D. N. Reddy, Chairman, RAC, DRDO & UGC member of Joint Andhra Pradesh held at Saveri Guest House
- Students organized annual Techno fest –VIRINCHI 2 years in 2010 & 2011
- Remedial coaching classes are conducted for SC, ST, BC and OBC students for their academic improvement.
- Academically poor students are given special training classes by the faculty
- Students are involved in routine Class room seminars, debates and class tests for their academic improvement.
- Students are imparted training in the development of communication skills, Soft skills, Entrepreneurship development skills, life skills etc.
- Students are encouraged to participate in different awareness programmes, rallies, Social service activities.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Black Board
- LCD Projector
- NPTEL Videos
- Demonstration

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Monitoring the Teaching Learning process from time to time by the Committee consisting of the Director, Head and concerned and one expert from other university, Prof V.C Veera Reddy SVU Tirupathi, Prof P.S Raju, Head EEE, Internal assessment will be done and the results are displayed in the notice board by getting signatures of students.

**47. Highlight the participation of students and faculty in extension activities:**

- NSS volunteers
- sports
- games
- swatch bharaath(on every third Saturday)





- collection of funds for flood to C.M relief fund ,blind people society etc.

**48. Give details of “beyond syllabus scholarly activities” of the department:** Students are exposed to different awareness programmes on environment ,social issues,rallies on AIDS, voters day.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:** AICTE

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

MOU with “sunrise startups incubation centre, Cochin, Kerala and Andhra Pradesh” to start incubation centre for developing entrepreneurship skills among the students.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

- Strengths: Qualified staff, Labs and Equipment, Infrastructure
- Weakness: No permanent teaching faculty
- Opportunities: To obtain teaching positions jobs, outside teaching industry, by updating and modernization of labs to achieve the national mission “Make In India” and compete global market.
- Challenges: To Make the Courses as Regular.

**52. Future plans of the department:**

- Power Systems
- Special electrical machines
- Power electronics & Industrial drives
- To establish research centers in the fields of Power Traction control



## Department of Information Technology

### Evaluative Report of the Department: IT

1. **Name of the Department:** Information Technology.
2. **Year of establishment:** 2005 – 06.
3. **Is the Department part of a School/Faculty of the university?** YES.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** B. Tech.
5. **Interdisciplinary programmes and departments involved:**  
CSE, IT, EEE, ECE, Mechanical.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**  
\_\_\_\_\_
7. **Details of programmes discontinued, if any, with reasons:**  
Information Technology – one section; No admissions since 2011-12. Only Final Batch (2011 – 2015) is in progress.
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Examinations are conducted Semester wise and with Project Work in final semester. CBCS is implemented from 2015-2016.
9. **Participation of the department in the courses offered by other departments:**

SUBJECTS	YEAR/SEMESTER	DEPARTMENT
Computer Programming With Lab	I Year	Electronics Communication Engineering
Computer Networks	III Year-II Semester	
Computer Organization	IV- I sem	
Computer Programming With Lab	I Year	Electrical & Electronics Engineering
Computer Organization	IV- II sem	
Computer Programming With Lab	I Year	Mechanical Engineering



### Other Activities:

1. Sir C. V. Raman Block was constructed with an estimation amount of Rs 4.2 crores.
2. Opening of Sri Visvesvaraya Block on 13<sup>th</sup> July 2002 by Mr M. G. Gopal garu, IAS, Principal Secretary (HE) & Vice-Chancellor (FAC).
3. Bhoomi Pooja of Sri Mokshagundam Viweswaraya Block, SE&T on 16<sup>th</sup> Dec 2010 with an estimation cost of Rs .2.6 crores
4. Opening of 3<sup>rd</sup> floor of Sri Visvesvaraya block on 18<sup>th</sup> Sep2014 by Ganta Srinivasa Rao garu, Honorable Minister for MHRD, Andhra Pradesh.
5. Construction of 3<sup>rd</sup> floor over Visweswaraya Block, SE&T on 27<sup>th</sup> June 2013 by Professor S. RathnaKumari garu, Vice-chancellor of SPMVV, Tirupati with an Estimation Cost of Rs. 95 Lakhs.
6. M.Tech programs inaugurated by Professor S. RathnaKumari garu, Vice-Chancellor of SPMVV, Tirupati.
7. Placements:

YEAR	NO. OF STUDENTS	NAME OF COMPANY
2014-2015	2	TCS
2013-2014	3	TCS
2012-2013	9	CTS
2011-2012	15	TCS
	12	Unisys
	11	HCL
2010-2011	3	TCS
	5	Wipro
	7	Tech Mahindra
	5	Convergys
	4	Unisys
	3	Satyam Mahindra

8. External Activities: Cultural Activities, Blood Bank, AIDS Awareness day, Voters day, VIRINCHI, Swatch Bharat.



## 9. PRACTICALS - UG Course-B.Tech

Year	Semester	Department	Subject	Lab Programs
I		IT	Computer Programming	33
II	I	IT	Data Structures	18
			Java Programming	15
	II	IT	Database Management System	15
			Assembly Language Programming in UNIX Environment	30
III	I	IT	Systems Programming	20
			Object Oriented Software Design	15
	II	IT	Computer Networks	15
			Simulation & Modelling	15
IV	I	IT	Compiler Design	16
			Internet Programming	16
	II	IT	Software Testing	25

## 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	-	-	-
Associate Professors	-	-	-
Asst. Professors (Academic Consultants on Contract basis)	4	2	-



**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 5 years
Prof. T. SUDHA	M.C.A, Ph.D	Professor, Head(I/C), Placement Officer	Computer Science	15	6
B.R.VAMSI KRISHNA NAIK	M.Tech	Academic Consultant	IT	04	-
B. SANGAMITHRA	M.Tech	Academic Consultant	IT	01	-

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

1. Prof A. Srinivasa Rao, USA
2. Ms K. Lavanya, Oracle Corporation, Hyderabad.
3. Prof. K.V. Kale, Dr. BabaSaheb Ambedkar University, Aurangabad.
4. Prof. K.V. Madhu Murthy, S.V. University.
5. Ms. M. Humera Khanam, S.V. University.

**13. Percentage of classes taken by temporary faculty - programme-wise information:**

33%. Guest faculties are recruited on Contract basis as per the requirements, qualifications and norms of AICTE.

**14. Programme-wise Student Teacher Ratio:**

B. Tech – 20:1 and M.Tech – 12:1.

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :**

Since SE&T established as Self-Finance basis, all the staff (Technical and Administrative staff recruited on Contract basis as per the requirements, qualifications and norms of AICTE.

NAME	ACADEMIC SUPPORT	NO. OF YEARS EXPERIENCE
Dr. C.S.Jhansi Lakshmi Bai	System Analyst (Permanent)	22
G. Pradeep	Technical Support	1
K.VijayaBharathi	Department Clerk	6
B.ChandraSekhar	Department Attendar	2



- 16. Research thrust areas as recognized by major funding agencies:**  
Artificial Intelligence, Robotics, Cloud Computing, Grid Computing, Big Data, Neural Networks, Data Mining, Multimedia, Software Testing.
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise.**  
-----
- 18. Inter-institutional collaborative projects and associated grants received**  
a) National collaboration                      b) International collaboration  
-----
- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**  
-----
- 20. Research facility / centre with**
- state recognition
  - national recognition
  - international recognition
- 
- 21. Special research laboratories sponsored by / created by industry or corporate bodies: -----**
- 22. Publications:**
- Number of papers published in peer reviewed journals (national / international)
  - Monographs
  - Chapters in Books
  - Edited Books
  - Books with ISBN with details of publishers
  - Number 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 - range / average
  - SNIP
  - SJR
  - Impact Factor - range / average
  - h-index



S NO	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ISB N No	Impact Factor	H Index	Citation Index	Listed in Database
1.	T.Sudha	“A Unified framework for searching Digital Libraries using for Document Clustering.” Computational Mathematical Ideas (ISSN : 0974-8652) Vol 2 – No.1, pp 28-32.	International	ISSN : 0974-8652)		International	ISSN : 0974 - 2107.	
2.	T. Sudha	“Application of Partition Algorithms of Data Mining Clustering Techniques on Rainfall” Mathematics, Computer Sciences and Information Technology (ISSN: 0975 - 5580) Vol. 3, No. 2, July-Dec 2010, pp 329-338.	International	ISSN : 0975 - 5580				
4.	T.Sudha	“DEA Banking Technical Efficiency Data Mining Techniques” Computational Intelligence Research & Applications, July- Dec 2010, pp 129-135 Serial Publications, New Delhi (India).	International					
5.	T.Sudha	“Building Classifications System to Predict Risk factors of Diabetic Retinopathy Using Text mining” Computer Science and Engineering, Vol. 2, No.07, pp.2309-2312, 2010.	International					
6.	T.Sudha	“Classification of Medline documents using Global Relevant Weighing Schema” Computer Applications, Volume 16-No.3, pp-45-48, February, 2011, ISSN: 0975-8887. (ISSN: 0975-8887) Vol. 16-No.3, Feb 2011	International	ISSN : 0975-8887				
7.	T.Sudha	“Spoofing – A threat to Biometric Systems” Computer Science and Engineering, Volume 7, issue 2, June 2011.	International					
8.	T.Sudha	“A Novel Feature Selection Method for Classification of Medical Documents from Pubmed” Computer Applications, Volume 26-No.9, PP-29-33, July, 2011, ISSN: 0975-8887.	International	ISSN : 0975-8887				
9.	T.Sudha	“Pre-Processing of Medical Documents and Reducing Dimensionality” Advanced Computing, Volume 2 - No.5, PP-15-24, September, 2011.	International					
10.	T.Sudha	" Clustering Approaches to accord updates in the DataWare House",	International	ISSN :	1.76			



S NO	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ISB N No	Impact Factor	H Index	Citation Index	Listed in Database
		Forum of Researchers, Students and Academicians (IFRSA), ISSN: 2249 - 7161, ISSN: 2249 - 2186.		2249 - 2186				
11.	T.Sudha	“Personal Identification Based on Human Iris.” Application & Innovation in Engineering Management (IJAIEM), June 2013.	International		2.379			
12.	T.Sudha	“Extraction of Biomedical- A Text Mining Approach.” Science, Environment and Technology, April-2013	International		2.42			
13.	T.Sudha	“Extraction of Biomedical Information from Medline Documents- A Text Mining Approach.” Science, Environment and Technology, Vol. 2, No 2 ISSN 2278-3687.	International	ISSN 2278- 3687	4.70			
14.	T.Sudha	“Medline Document Classification Model.” Multidisciplinary research Academy (IJMRA) ISSN 2249-0558.	International	ISSN 2249- 0558	4.077			
15.	T.Sudha	“Comparison of Wavelet based Water Marking Techniques using SVD.” Proceedings of the International Conference on Image Processing, Computer Vision and Pattern Recognition, Vol-2, July 16-19, 2012, Las Vegas, Nevada, USA.	International					
16.	T.Sudha	"Secure Multiparty Computation Using HomomorphicEncryption" Mobile and ADHOC Networks (IJMAN), August 2012.	International					
17.	T.Sudha	“ Smishing – Cyber Threat Analysis of Mobile Devices” Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 13-16.,2012	National					
18.	T.Sudha	“Secure Group Communication in Wireless Adhoc Networks Using Neighborhood Key.” Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 216-220., 2012	National					
19.	T.Sudha	“SMS Transmission By LZW Compression and Public Key	National					





S NO	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ISB N No	Impact Factor	H Index	Citation Index	Listed in Database
		Encryption”  Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 305-310, 2012.						
20.	T.Sudha	“Comprehensive Study on Watermarking Techniques Using SVD and Transformation”  Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page no. 311-315, 2012.	National					
21.	T.Sudha	Computer Forensic Vs Anti Computer Forensic Proceedings of the book “Emerging Trends in Communication and Information Systems Security”, page81-88	National					
22.	T.Sudha	"Modeling Nonlinear Applications Using Regression Trees" Datawarehousing and Datamining, Vol. 2, Issue. 2, ISSN(Online) : 2249-2186, print: 2249-7161.	International	ISSN : 2249- 2186				
23.	T.Sudha	“Indexing Of Medline Documents. A Text Mining Approach” Latest research in Science & Technology. Vol 2 Issue 1, ISSN : 2278-5299	International	ISSN : 2278- 5299	0.480			
24.	T.Sudha	“Extraction Of Biomedical Information From Medline” Science, Environment and Technology, Vol. 2, No 2 ISSN 2278-3687.	International	ISSN 2278- 3687.	4.70			
25.	T.Sudha	“IRIS – An Emergent Biometric Technology for Personal Authentication.” Current Engineering Research, Vol. 3, Issue 4, October 2013.	International		6.392 4			
26.	T.Sudha	“A New Robust Image Cryptography Technique using Fractal Theory.” CIIT Digital Image Processing, Vol. 6, Issue. 1,January-2014, pp. 16- 21,ISSN 0974-9691.	International	ISSN 0974- 9691.	1.652			
27.	T.Sudha	“Comprehensive study of Watermarking Techniques using Different Transformations.” Application or Innovation in Engineering & Management (ISAIEM), Vol.3 Issue 2 February- 2014, Pg No 87-91.	International		3.115			
28.	T.Sudha	“Dilation and Erosion Operations	International	ISSN	3.26			



S NO	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ISB N No	Impact Factor	H Index	Citation Index	Listed in Database
		Utilizing for Arbitrary Structuring Element.” Graphics and Image Processing (IJGIP), Vol. 3, Issue. 3, pp- 170-175, ISSN 2249:5452.		2249: 5452.				
29.	T.Sudha	“Performance Evaluate of Watermarking Technique Applying Wavelet Transformation in different Bands.” Graphics and Image Processing. February-2014,pg no 52-55	International		1.48			
30.	T.Sudha	“Novel Spatial and Transform Domain Image Encryption Algorithms.” IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Vol. 4, Issue 2, Ver. II (Mar-Apr. 2014), PP 38-45.	International		1.458			
31.	T.Sudha	“Evaluation of Wavelet Transformations in Different Bands by Applying Noise” “Computer Science Engineering and Information Technology Research”, ISSN (Online) : 2249-7943	International	ISSN : 2249- 7943	6.878 5			

**PUBLICATIONS**

S NO	Name of the Author	Title of the Paper Vol. No; Pg.No /Journal OR Pub/ Book Chapters/ Edited books	Status National/ International	ISSN/ISBN No	Impact Factor	H Index	Citation Index	Listed in Database
1	Mr. B. R. Vamsi Krishna Naik	“A Web Based Quality Function Information Management”, a issue on Internation Journal of Engineering Science Research, IJESR, Vol. 4, Special Issue 1, January 2014; PP 1042-1047.	International	ISSN: 2230- 8504; e-ISSN: 2230- 8512	2.0			
2.	B.SangaMithra	“ Congestion Logic in High Speed Networks using Fuzzy logic control” Vol: 1, 2015	International					
		“ The Survey Load Balance of Resources in Cloud Computing Environment” in IJRIT, Vol:2, Issue: 8, Aug 2014	International	ISSN: 2001- 5569				



23. Details of patents and income generated: -----

24. Areas of consultancy and income generated: -----

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: -----

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) -----

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): -----

28. Student projects

•percentage of students who have done in-house projects including inter-departmental projects:

Name of The Student	Project Title	Department	Project GUIDE
G.V. Lakshmi Mohini	M-Privacy for Collaborative Data Publishing	CSE	A.Supriya
G. Vijya			
T. Vijitha			
J. JayaLakshmi			
K. Anusha	Classification and Clustering of User mails Using and Improved K-means Clustering Algorithm	CSE	P.SriVyshnavi
R. Lavanya			
C. Radha			
N. Anusha	Preserving Location Privacy in Geo-Social applications.	CSE	S. Basha Sheik
N. Maneesha			
M. Saritha			
S.K. Ayesha	Efficient Techniques to Analyze data Using IBM Cogons TM1 in Memory Olap Engine.	CSE	H.Venkateswara Raju
G. Mounika			
S. SindhuPriya			
M. Bhavana	Authencation of an Image Using Stochastic Diffusion	CSE	R.Padmini
K. Mounika			
P. Sindhuja			
P. Naga Harsha	Privacy Preserving Delegated Access Control Over public Clouds	CSE	M.Soumya Harika
Moulika			
M.G. Sri Lakshmi			
A.P. Udaya Sri	IPV4 to IPV6 Integration and Co-Existence Strategies	CSE	E.Ramesh Babu
C. Lasya Reddy			
K.M.Pranavi			



Name of The Student	Project Title	Department	Project GUIDE
E.Thirumala Devi			
M. Vasavi			
G.K. Harshitha	A system to Filter Unwanted Message from OSN User Walls.	CSE	N.Padmaja
S. Manasa			
D. Madhu			
B. Mounika			
D. Mounika	Throughput Capacity of MANET's with Power Control and Packet Redundancy.	CSE	Dr.C.S. Jhansi Lakshmi Bai
M. Navya Krishna			
M. Naznien			
CH. Nymisha			
G. Aurna	Active Resource Provision in Cloud Computing Through Virtualization.	CSE	P.SriVyshnavi
M. Aswani			
P. Ayisha Praveen			
S. Bhargavi			
R. Sonia Sree	Resource Planner	CSE	J.Babu
S. Soumya			
T. Tejasri			
M. SreeLatha			
P. Sindhuja	Scalable and Secure Sharing of Personal Health Records in Cloud Computing Using Attribute Based Encryption.	CSE	A.Amarnatha Reddy
R. Sonia			
K. Soujanya			
V. Sravya			

•percentage of students doing projects in collaboration with other universities/ industry/ institute:

#### 29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / Post doctoral fellows
- Students

NAME OF THE STUDENT	EVENT NAME	DATE OF PARTICIPATION
M.Bhavana	Vocal& Clay Modelling, S.V University	08-03-2013
R.Lavanya	Cultural	15-04-2014
K.M.Pranavi	Vocal,Dancing and Clay Modelling	24-01-2013
A.P. UdayaSri	NCC	25-03-2013



**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

NAME OF THE STUDENT	NATIONAL/ INTERNATIONAL/ WORKSHOP	TITLE
C.Radha	National	Debugging
A.Kalpana	National	PersonailityDevleopment and Poster Presentation
S.SindhuPriya	National	Personaility Devleopment and Poster Presentation
P.N.H.Moulika	National	PersonailityDevleopment and Poster Presentation
E.Thirumala Devi	National	Debugging
	Workshop	Artificial Intelligence and Robotics
	National	PersonailityDevleopment and Poster Presentation

**31. Code of ethics for research followed by the departments -----**

**32. Student profile programme-wise:**

**UG Course – B. Tech**

Name of the Programme (refer to question no. 4)	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
2014-2015	-	NA	-	NA	-
2013-2014	-	NA	-	NA	-
2012-2013	-	NA	-	NA	-
2011-2012	60	NA	20	NA	-*
2010-2011	60	NA	58	NA	95%

**33. Diversity of Students**

**(a) UG Course: B.Tech**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.Tech – IT	Through EAMCET /ECET 100%	State Wide University from all Universities under 10 <sup>th</sup> Schedule (AP+Telanagana) 100%	-	-



**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:**

-----

**35. Student progression**

<b>Student progression</b>	<b>Percentage against enrolled</b>
UG to PG	-----
PG to M.Phil.	-----
PG to Ph.D.	-----
Ph.D. to Post-Doctoral	-----
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	YES
Entrepreneurs	-----

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	100%
from universities from other States	-
from universities outside the country	-

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:-----**

**38. Present details of departmental infrastructural facilities with regard to**

**a) Library:**

<b>Department</b>	<b>University</b>
250 Volumes of Books are Available	500 Volumes of Books are Available

**b) Internet facilities for staff and students:** Wi-Fi facility available.

**c) Total number of class rooms:** 2 class rooms available.



- d) **Class rooms with ICT facility:** -----
- e) **Students laboratories:** 3 laboratories available

SUBJECT	DEPARTMENT	YEAR/SEM
Compiler Design	IT	IV Year – I Sem
Internet Programming	IT	IV Year – I Sem
Software Testing	IT	IV Year – II Sem

- f) **Research laboratories:** -----

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university  
 b) from other institutions/universities

-----

**40. Number of post graduate students getting financial assistance from the university.**

-----

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. -----**

**42. Does the department obtain feedback from**

- a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- c) alumni and employers on the programmes offered and how does the department utilize the feedback?

Parents, Faculty and Other Visiting Fellows, Industry People and those suggestions will be incorporated in framing Curriculum.



**43. List the distinguished alumni of the department (maximum 10)**

S.No.	Name of the student	Passed out Year	Company/ Organization	Designation
1	Sahithi	2013	Tech Mahindra	Jr. Software Engineer
2	Deepthi	2013	Google	Jr. Software Engineer
3	K. Alaikya	2014	TCS	Assistant Systems Engineer Trainee
4	P. Hemankitha	2014	TCS	Assistant Systems Engineer Trainee
5	Jemimah Rani	2014	TCS	Assistant Systems Engineer Trainee
6	O. Moulika	2014	TCS	Assistant Systems Engineer Trainee
7	S. Ramya Krishna	2014	TCS	Assistant Systems Engineer Trainee
8	K. Gayathri	2014	SBI	Clerk
9	T.Keerthana	2014	Infosys	Jr. Assistant Systems Engineer Trainee
10	K.Keerthi	2014	CTS	Jr. Assistant Systems Engineer Trainee

**44. Give details of student enrichment programmes (special lectures / workshops seminar) involving external experts.**

- Special Lectures from Universities within the Country and Abroad.
- Students attend Workshops, Seminars and Inter-Collegiate Technical Events.
- Students organize annual Techno Fest – VIRINCHI.
- Remedial coaching classes are conducted for SC, ST, BC and OBC students for their academic improvement.
- Academically poor students are given special Training classes by the Faculty.
- Students are involved in routine Class room Seminars, debates and class tests for their academic improvement.
- Students are imparted training in the development of Communication skills, Soft skills, Entrepreneurship development skills, JKC, Career Launcher to develop Placement skills.
- Students are encouraged to participate in different awareness programmes, rallies and Social service activities.



**45. List the teaching methods adopted by the faculty for different programmes:**

Black Board, LCD Projector and Audio/Video aids.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Monitoring the Teaching – Learning process from time to time by the Committee Internal Assessment, Subject wise Seminars, Group Discussions, JAM.

**47. Highlight the participation of students and faculty in extension activities.**

NSS, Sports, Games, Swatch Bharath, Collecting Funds for Flood Relief etc and other programmes like Blood Bank.

**48. Give details of “beyond syllabus scholarly activities” of the department:**

Students are exposed to different Awareness Programmes on Environment, Social Issues, Rallies on AIDS, Voters day.

**49. State whether the programme / department is accredited/ graded by other agencies? If yes, give details.**

AICTE, UGC.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Smart Village
- MOU with “Sunrise startups incubation center, Cochin, Kerala and Andhra Pradesh” to start incubation center for developing entrepreneurship skills among the students.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

1. Strengths – Qualified Staff, Laboratories and Equipment, Infrastructure.
2. Weakness – No Permanent Teaching Facility.
3. Opportunities – Opportunity to get the employment in Industries, Software Companies and Teaching.
4. Challenges – To make the Research Laboratories to meet the global needs.

**52. Future plans of the department:**

- To get the Permanent Staff.
- Research Programmes.
- Industry need based Curriculum.



# Department of Mechanical Engineering, School of Engineering & Technology

## Evaluative Report of the Department

1. **Name of the Department:** Mechanical Engineering, School of Engineering & Technology.
2. **Year of establishment:** 2012.
3. **Is the Department part of a School/Faculty of the university?** Yes.
4. **Names of programmes offered (UG, PG.):** B. Tech: Mechanical.
5. **Interdisciplinary programmes and departments involved:** B. Tech.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** -
7. **Details of programmes discontinued, if any, with reasons? :** -
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Examinations are conducted Semester wise with project works in final semester. CBCS will be implemented from 2015-2016 onwards.
9. **Participation of the department in the courses offered by other departments**

S.No.	Subject Code	Subject Name	Department
1	GES P-105	Engineering Drawing	All Branches
2	GES P- 107	Workshop	All Branches
3	MEC - 224	Fluid Mechanics and Hydraulic Machinery	EEE
4	MEC P -227	Fluid Mechanics and Hydraulic Machinery Lab	EEE
5	MEC - 222	Basic Thermodynamics	EEE



**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including AS & MPS)
Professor	-	-	-
Associate professor			
Assistant Professor/Contract faculty on contract basis			
Guest faculty			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.**

S. NO	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D./M.Phil Students guided for the last 4 years
1	Prof.C.EswaraReddy	M.Tech(Mech), Ph.D.	Director and Head(I/C), EEE, MECH, GESH	Robotics	35	06
2	K.Usha Rani	M. Tech	Academic Consultant	Refrigeration and Air conditioning	1	-
3	G.Divya Priya	M. Tech	Academic Consultant	CAD/CAM	2	-
4	P.JayaSudha	B. Tech	Academic Consultant	-	4	-
5	T.Srikanth	B.Tech	Guest Faculty	-	5	-

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

- Prof.G.Jayachandra Reddy, Professor of Mechanical Engineering, Principal, YVU, YSR College of Engineering, Proddatur.
- Sri.C.Subba Reddy, Head, Department of Mechanical Engineering, VIST, Kavali.
- Dr.C.Bhaskar Reddy, Head, Department of Mechanical Engineering, SKIT, Sri Kalahasti.



**13. Percentage of classes taken by temporary faculty - programme-wise information since the SE&T established as self finance basis, all the faculty are recruited on contract basis as per the requirements, qualifications and Norms of AICTE:100%.**

**14. Programme-wise Student Teacher Ratio :**

(a) B. Tech: 20:1 (b) M. Tech: 12:1.

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.**

- Technical staff:
  - i. S.Lokesh Babu- Electrical Wiring
  - ii. K. Muni Gopal-Fitting
  - iii. A.Sukumar-Carpentry
  - iv. K. Giriprasad Reddy- Production Engineering lab
  - v. K.Geetha-Fluid Mechanics lab
  - vi. Syed Sadik-Electricean
  
- Clerk: M.Kusuma
- Attendar: N.Nagarani
- Class-iv Employee:
  - I. B.Azaraiah-Workshop
  - II. B.Bhaskar-Production Engineering lab

**16. Research thrust areas as recognized by major funding agencies :**

- Robotics
- Heat Transfer
- Nanotechnology
- Flexible manufacturing systems

**17. Number of faculty with ongoing projects from**

a) National

b) International funding agencies and

c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. -

**18. Inter-institutional collaborative projects and associated grants received.**

a) National collaboration: -                      b) International collaboration: -



**19. Departmental projects funded by DST-FIST; UGC- SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: -**

**20. Research facility / centre with**

- state recognition: Under Process
- national recognition: Under Process
- international recognition Under Process

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**

**22. Publications: Journals/Publications**

S no	Name of the author	Title of the paper vol no pgno journal or pub/book chapters /edited books	National /International	issn/ isbn	impact factor	h index	citation index	liste in database
1	C.ESWARA REDDY	Development of fuzzy controller for prediction of surface roughness in hard turning with coated cutting tools volume-4	National	-	-	-	-	-
		Decision making in selecting the path for multiple robots	International	-	-	-	-	-
		Unconventional machining role of electric discharge machining	National	-	--	-	-	-
		Finite element analysis of convective laminar nano fluid flow through heated parallel plates	National	--	-	-	-	-
		Finite element analysis of deformation of an particular cartridge due to creep and stress relaxation	National	-	-	-	-	-
		Influence of pre heating of atrophy biodiesels on exhaust gas emissions	National	-	-	-	-	-
		Performance of LHR Diesel engine operating with different blends of bio diesel	National					
		Influence of the injection pressure on the performance of diesel engine operating with different blends of biodiesel	National					
		Perfomance and emission characteristcs of diesel engine running with different blends of biodiesel	National					
2	K.USHA	PERFORMANCE Evaluation of	Internatio	2229	1.8			



S no	Name of the author	Title of the paper vol no pgno journal or pub/book chapters /edited books	National /International	issn/ isbn	impact factor	h index	citation index	liste in database
	RANI	vapor compression refrigeration system with three layer zigzag shaped evaporator volume -5,issue -4	nal	-5518				
		study on effect of some parameters on drilling volume-15,Issue-01	International	2231-5381	0.7			
		Development of Air conditioning system based on vapor absorption cycle for automobiles using exhaust gases with R-134-a DMF Volume-5,issue-7	International		7.857			
3	G.DIVYA PRIYA	Modeling and analysis of twenty tonne heavy duty trolley, volume -2,issue-6	International	2320-5547	0.825			

- Number of papers published in peer reviewed journals (national/international)
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number 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-range/ average
- SNIP
- SJR
- Impact Factor –range/average
- H-Index

23. Details of patents and income generated: -

24. Areas of consultancy and income generated: -

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: -

26. Faculty serving in: Prof. C. Eswara Reddy Head I/C – AICTE Member.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): -



28. Student projects: -

29. Awards / recognitions received at the national and international level by

- Faculty

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

S No	Name of the Faculty	Conf/W.S/ Seminars/ Symposium	National/ International	Venue & Date	Papers Presented/ Participated	Title of the Paper
1	C.ESWARA REDDY	Conference	International	Tirupati, January-2011	Participated	Computer Science and Applied Mathematics
		Conference	International	Hyderabad, July-2010	Participated	Quality and Reliability in Technical Education- ICORTE
2	K. USHA RANI	Workshop	National	NITK, Surathkal, CMTE, Bangalore 9-12 Dec 2014	Participated	Recent Trends in Design and Precision Engineering
		Workshop	National	NITK, Surathkal, 29-31 Jan 2014	Participated	Dynamic Analysis of Machines and Structures
		Workshop	National	SE&T, SPM VV TIRUPATI	Participated	Artificial Intelligence and Robotics
3	G.DIVYA PRIYA	Seminar	National	JNTU Anantapur, 21-23 August 2014	Participated	Industrial Practices of Computational Fluid dynamics
4	P.JAYA SUDHA	Workshop	National	SVU, Tirupati, Dec 2012	participated	Engineering Thermodynamics

31. Code of ethics for research followed by the departments :

32. Student profile programme-wise:



Name of the Programme (refer to question no. 4)	Applications Received	Selected	Pass Percentage
		Female	Female
MECH(2012-2013)	EAMCET/ECET	-	-
MECH(2013-2014)	EAMCET/ECET	-	-
MECH(2014-2015)	EAMCET/ECET	-	-

### 33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MECH	State wide university under tenth schedule	-	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category- wise.

### 35. Student progression

Student Progression	Percentage Against Enrolled
UG to PG	-
PG to M.Phil	-
PG to Ph.D	-
Ph.D. to Post-Doctoral	-
Employed	-
•Campus selection	
•Other than campus recruitment	
Entrepreneurs	-





### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	-
from other universities within the State	100%
from universities from other States	-
from universities outside the country	-

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: -

### 38. Present details of departmental infrastructural facilities with regard to,

- a) Library: 300 volumes
- b) Internet facilities for staff and students : Wi-Fi facility available
- c) Total number of class rooms: B.Tech-4, M.Tech-1
- d) Class rooms with ICT facility: 2
- e) Students' laboratories:
  - I. Engineering Drawing
  - II. Mechanical Drawing
  - III. Computer Programming Lab
  - IV. Communicative English Lab
  - V. Workshop
  - VI. Strength of Materials Lab
  - VII. Fm&Hm Lab
  - VIII. EEE&ECE Lab
  - IX. Production Engineering Lab
  - IX. Mechanical Engineering Lab-I
  - X. Machine Tool Lab
  - XI. Mechanical Engineering Lab-II
  - XII. Metrology Lab
- f) Research laboratories: 2

### 39. List of doctoral, post-doctoral students and Research Associates: UG & PG



- a) From the host institution/university: -
- b) From other institutions/universities: -

**40. Number of post graduate students getting financial assistance from the university: -**

**41. Was any need assessment exercise undertaken before the development of new programmed? If so, highlight the methodology.**

- To fill the gap between Institution & Industry
- Feedback collected from the student
- Feedback collected from the parents
- Feedback collected from the Academic Experts & Industry people
- Feedback collected from the Faculty.

**42. Does the department obtain feedback from**

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - a. Feedback is collected from the faculty and required changes will be incorporated accordingly in curriculum and evaluation process
- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - a. Feedback is collected from the students and required changes will be incorporated accordingly in curriculum and allotting the subjects to the teachers.
- c) Alumni and employers on the programmes offered and how does the Department utilize the feedback?
  - a. Feedback is collected from the alumni and employers and required changes will be incorporated accordingly in framing the placement activities, curriculum and allotting the subjects to the teacher.

**43. List the distinguished alumni of the department (maximum 10) :-----**

**44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts.**

- Special lectures from universities within the country and abroad on Robotics
- One day national level work shop on environment pollution in collaboration with pollution control board organized.
- Awareness program on Energy Conservation organized to the students in association with Institute of Engineers (India Tirupati Local Chapter on Solar Energy).
- Invited Lecture on Energy Conservation Conducted on 17/12/2014. Resource person: Prof. Sheik Kalimulla, S.V.Agricultural College, Tirupati.



- ISTE Last Meeting of Joint Andhra Pradesh held at Saaveri Guest House.
- Students organized annual Techno fest –VIRINCHI 2 years in 2010 & 2011.
- Remedial coaching classes are conducted for SC, ST, BC and OBC students for their academic improvement.
- Academically poor students are given special training classes by the faculty
- Students are involved in routine Class room seminars, debates and class tests for their academic improvement.
- Students are imparted training in the development of communication skills, Soft skills, Entrepreneurship development skills, life skills etc.
- Students are encouraged to participate in different awareness programmes, rallies, Social service activities.

**45. List the teaching methods adopted by the faculty for different programmes:**

DEMONSTRATION WITH MODELS IN ENGG DRAWING,

- BLACK BOARD,
- LCD PROJECTOR
- AUDIO VIDEO AIDS

**47. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- GROUP DISCUSSIONS, SEMINARS

**47. Highlight the participation of students and faculty in extension activities.**

**NSS volunteers:**

- Sports
- Games
- Swatch bharath (on every third Saturday)
- Collection of funds for flood to C.M relief fund ,blind people society etc.



NSS	K.Lavanya-1476010 S.Umadevi-1476024 D.Sravani-1476020 K.Diksitha-1476005 V.Bargavi-1476002 C.Sowjanya-1476019 G.Bavana0-1276002 K.Bavana-1276003 O.Yatheesha-1276023 T.Deepthi1276005		Sri Padmavathi Mahila Visvavidyalayam
Sports	M.Usha-1476025	Winner Khabaddi, Shotput, Dicussthrow	Collegeday celebrations, SPMVV,Tirupati
Sports	B.Poojitha- 1476015	Winner Tennikoit	Collegeday celebrations, SPMVV,Tirupati Padmavathi Mahila Visvavidyalayam
Sports	S.Swathi-1476022	Winner, Tennikoit,, Vollyball, Throwball	Collegeday celebrations, SPMVV,Tirupati
	CH.Jayasri-1476008	Winner Taekwando	Women's day Celebrations, SPMVV, Tirupati
	S.Uma Devi-1476024	Winner Throwball	Collegeday celebrations, SPMVV,Tirupati Sri Padmavathi Mahila Visvavidyalayam College day celebrations,
Sports	K.Samatha-1476018	Winner Taekwondo, Walking	Women's day Celebrations, SPMVV, Tirupati.
Sports	G.KavyaSree-1376005	Winner Taekwondo	Women's day Celebrations, SPMVV, Tirupati.

**48. Give details of “beyond syllabus scholarly activities” of the department:**

Students are exposed to different awareness programmes on environment, social issues, rallies on AIDS, voter's day.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: AICTE.****50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied MOU with “sunrise startups incubation centre, cochin, kerala” to start incubation 10 centre for developing entrepreneurship skills among the students.****51. Detail five major Strengths, weaknesses, Opportunities and Challenges (SWOC) of the department.**

- Strengths: Qualified staff, Labs and Equipment ,Infrastructure
- Weakness: No permanent teaching faculty
- Opportunities: To recruit permanent teaching, Technical and non teaching faculty.
- Challenges: To make the courses as regular.

**52. Future plans of the department.**

- To get the permanent staff.
- To establish research centers in the field of:
  - Manufacturing
  - Production
  - Thermal.