

**RVR & JC COLLEGE OF ENGINEERING**

**(Autonomous)**

**Chowdavaram, Guntur-522019**

# **IMPULSE**

**(A HALF YEARLY ECE NEWS LETTER)**

**January – June 2012, Volume 1, Issue 1**

Alessandro Volta



You must be ready to give up  
even the most attractive ideas  
when experiment shows them to  
be wrong.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

## ABOUT ECE DEPARTMENT

The department of ECE came into existence in 1985 immediate when the institute was founded. It was started with an intake of 40 which was subsequently raised to 180 over a period of time. M.Tech course approved by AICTE in communication engineering and signal processing was started in 2010. The department is presently offering 4years B.Tech degree program in ECE and 2 years M.Tech degree program in communication engineering and signal processing.

### **VISION:**

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### **MISSION:**

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

### **Program Educational Objectives (PEO's):**

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL:**

It is with great pride I present you this newsletter. It highlights the various activities carried out and organizing in the department and the achievements of the faculty as well as students. ECE is a dynamic and most emerging area in terms of research and thereby providing excellent career opportunities.

We are committed to give our students an environment where they can put their thoughts into actions. The curriculum is so designed to bring this environment into reality. In addition to academic activities, the extra-academic activities in the department bring about the inner potential of the students. I am very happy and confident that this newsletter will enrich the skills and gregariousness in the students.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD:**

The ECE department offer wide opportunities to learn and enrich the knowledge by participating in Research, student groups and so. One such activity that enriches the knowledge and provide current issues in various fields of research is newsletter. I am so glad to release this newsletter as it provides a platform to understand the current issues and concerns in the field of electronics and research.

We have eminent faculty guiding and dedicating to impart qualitative education at various levels. The rich experience in faculty and competitive spirit in students has brought the state-of-art technology into our classrooms. The various student activities taking place in the department will enable the students to realize their dreams and transform them into futurist leaders. It also imparts a sense of “If some one cannot, you can!!”.



**Dr.VVKDV Prasad  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total Appeared	Total Passed	% Pass
IV/IV B.Tech	II Sem	137	118	86.13
III/IV B.Tech	II Sem	134	122	91.06
II/IV B.Tech	II Sem	140	109	77.85

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on **"Evaluation of Telecommunication & Introduction to NGN"** on June 21<sup>th</sup>, 2012.

**Resource Person:**

**Sri B.Bhaskar, JTO, BSNL, Guntur**

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. A research paper on **'VSWR and input impedance of tapered Nylon rod antenna'** written by assistant professor **M.V.SPrasad**, was published in Journal of Innovation in Electronics & Communications and, volume 2 Issue 2 ISSN 2249-9946.
2. A research paper on **'Biconical Ring Antenna Array for Wide Band Applications'** written by C. Subba Rao, Professor **A.Sudhakar**, was published in the International Journal of Engineering Science and Technology (IJEST), No 2, Vol 4, PP 759-763, Feb-2012, ISSN:0975-5462.
3. A research paper on **'Hand Written Digital Recognition using Kalman Filter'** written by assistant professor **P.P.S.Subhashini**, Professor **Dr.V.V.K.D.V.Prasad**, was published in the International Journal of Electronics & Communication Engineering, PP 431-440, ISSN 0974-2166, Vol.5, No.4, 2012.
4. A research paper on **'Observation of cloud characteristics using laser RADAR system'** written by assistant professor **D.Arunkumar**, G.Suresh,B.V.Reddy , was published in the International conference on recent advances in information technology ,Dhanbad, pp.805-808,15-17 March 2012.
5. A research paper on **'High speed efficient low power CMOS comparator'** written by K.Suresh Babu, Lecturer **P.SivaPrasad**, was published in the National Conference on Emerging trends in communication and signal processing techniques, conducted by Department of ECE, Sri Venkateswara University college of Engineering Tirupati on 21<sup>st</sup> JAN 2012.

6. A research paper on 'Performance analysis of various Fuzzy Enhancement Technique through different membership function' written by B.Sunil, Lecturer P.Sivaprasad, was published in the International Conference conducted by VIT university Vellore Chennai,3-4 May, 2012.

### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. Assistant Professor, Sri M.V.S.Prasad, and Lecturer Sri P.Sivaprasad attended a three day Workshop on 'Emerging Trends in Communications & Signal Processing Techniques', by Sri Venkateswara University College of Engineering, Tirupati, on January 21<sup>st</sup>, 2012.
2. Assistant Professor Sri J.Ravindranadh attended a Workshop on 'Modern Antennas Simulation & Applications' organized by ,NIT, Warangal,during February 17-19, 2012.
3. Professor, Dr.V.V.K.D.V.Prasad, and Sr.Lecturer Sri M.Suresh attended a one day Workshop on 'Cognitive Radio, IIT, Hyderabad, on February 25, 2012.
4. Assistant Professor Sri J.Ravindranadh, attended a Workshop on 'State of Art Electromagnetic & Communication Technologies' organized by KLR College of Engg. Paloncha, Khammam ,on March 21<sup>st</sup>, 2012.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. II/IV & III/IV B.Tech Students attended training program on Verbal Ability conducted by M/s Sri Venu & Sri Subramanyam, Hyderabad on 13<sup>th</sup> February. 2012.
2. IV/IV B.Tech Students attended Campus Recruitment Training Program conducted by M/s Triumphant Training Solutions, Hyderabad on 04.06.2012 to 11.06.2012

### FACULTY ACHIEVEMENTS

1. Sri T.Ranga Babu, Asst.Prof, Department of ECE has been awarded Ph.D Degree for the topic "Segmentation of Constrained characters in Telugu Script",from JNTU, Hyderabad, on May 1<sup>st</sup>, 2012.
2. Sri T.Ranga Babu, Asst.Professor, Department of Electronics & Communication Engineering, was promoted as Professor w.e.f. 01.05.2012

### PLACEMENT DETAILS

S.No.	Company	Date(s) of Interview	Number of students selected
1	M/s. ADP, Hyderabad	06 <sup>th</sup> January, 2012.	02
2	M/s.Cordys, Hyderabad	24 <sup>th</sup> & 25 <sup>th</sup> January 2012.	02
3	M/s. Semantic Space, Hyderabad	8 <sup>th</sup> January 2012.	04
4	M/s.KEANE, Hyderabad	17 <sup>th</sup> & 18 <sup>th</sup> February, 2012.	04

5	M/s. Wipro BPO, Hyderabad	1 <sup>st</sup> March, 2012	03
6	M/s. Sasken, Hyderabad	29 <sup>th</sup> February 2012 & 1 <sup>st</sup> March, 2012.	02
7	M/s. CMC, Hyderabad	6 <sup>th</sup> March 2012	03
8	M/s. VEDA IIT, Hyderabad	17 <sup>th</sup> March 2012.	03

## INDUSTRIAL VISITS

1. The department of ECE has arranged a long industrial study tour for III/IV B.Tech students to South Indian industries, during 7<sup>th</sup> January, to 16<sup>th</sup> January 2012.

## GATE RESULTS

S.No	Name of the Department	Number of Students Qualified	Highest all India Rank
1	ECE	62	867

## STUDENTS PARTICIPATION

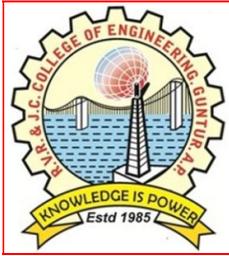
S. No	Name	Regd. No	Event	Organized Institute	Date
1	K. Mounica	Y9EC647	Paper presentation	Vignan's nirula institute of technology	29-2-2012
2	K. Sri Lakshmi	Y9EC902	Paper presentation	Vignan's nirula institute of technology	29-2-2012
3	M. Sai krishini	Y9EC877	Paper presentation	Andhra university	24-2-2012 to 25-2-2012
4	T.K.R. Manoj	Y9EC908	Paper presentation	Andhra university	24-2-2012 to 25-2-2012
5	T. Sree teja	Y9EC907	Paper presentation	Andhra university	24-2-2012 to 25-2-2012
6	V.Priyanka	Y9EC911	Paper presentation	Andhra university	24-2-2012 to 25-2-2012
7	K. Raghu sumanth	Y9EC888	Tekneek (TRANCE)	SRKR Engineering college	17-2-2012 to 18-2-2012
8	P. Sravan kumar	Y9EC883	Paper presentation (TRANCE)	SRKR Engineering college	17-2-2012 to 18-2-2012
9	K. Raghu sumanth	Y9EC888	Paper presentation (TRANCE)	SRKR Engineering college	17-2-2012 to 18-2-2012
10	D. Sai Ajay	Y9EC828	Paper presentation (TRANCE)	SRKR Engineering college	17-2-2012 to 18-2-2012
11	K.V.N. Sai Dilip	Y9EC861	Paper presentation	SRKR Engineering college	17-2-2012 to 18-2-2012

			(TRANCE)		
12	P. Bhavya Swetha	Y10EC884	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
13	G. Nikhila jayasree	Y9EC837	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
14	G. Nikhila jayasree	Y9EC837	Paper presentation	Pulla reddy institutions	2-2-2012
15	B. Pavan kanthi	Y9EC812	Paper presentation	Pulla reddy institutions	2-2-2012
16	B. Pavan kanthi	Y9EC812	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
17	B. Sushma	Y9EC815	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
18	K. Keerthi chandu	Y9EC859	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
19	S. Victoria	Y9EC895	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
20	S. Priyanka	Y9EC897	Paper presentation	Siddhartha Engineering college	3-2-2012 to 4-2-2012
21	T.K.R Manoj	Y9EC908	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
22	M. Sai Krishna	Y9EC877	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
23	K.V.N. Sai Dilip	Y9EC861	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
24	V. Rajeev Rathna	Y9EC915	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
25	S. Anantha Srinath	Y9EC896	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
26	M. Bhargava	Y9EC867	Paper presentation	Jntu Kakinada	3-2-2012 to 4-2-2012
27	B. Alli babu	Y9EC810	ROBOWARS	Anna university	1-2-2012 to 4-4-2012
28	K. Balakrishna	Y9EC848	ROBOWARS	Anna university	1-2-2012 to 4-4-2012
29	J. Ananth sai	Y9EC845	ROBOWARS	Anna university	1-2-2012 to 4-4-2012
30	Razza Mirza	L10EC929	ROBOWARS	Anna university	1-2-2012 to 4-4-2012
31	A.V. Yashwanth	Y9EC812	ROBOWARS	Anna university	1-2-2012 to 4-4-2012

**EDITORIAL BOARD**

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P.Sivaprasad, Lecture of ECE  
S.Ramesh Babu, Lecturer of ECE  
K.Upendra Chowdary, Lecturer of ECE**



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- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

The department has qualified and dedicated faculty members to provide good technical support and give individual attention to all the students. The vision to become a centre of excellence in the field of electronics and communication engineering is supported by our faculty and students who are dedicated to achieve this goal with enthusiasm and good ethical values. We hope that we will continue to deliver our best to serve the society and expect our students to pass on the skills that they have developed during their interaction with our department.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD :**

The big theme today is to focus on creativity and innovation alongside academics. Entrepreneurial wealth creation has been explosive on account of the massive impact made by technology start-ups. It is research and development that fosters innovation and out of the box thinking, be it in design or in implementation.

Interact with your predecessors pursuing their passions as entrepreneurs or as employees and they would vouch for the fact that career progression or wealth creation happens only when the vision extends beyond the periphery. Apply your mind in everything you do, whether it is a small laboratory project or a longer semester project. Understand the “Why”, investigate the “Why not” and think through the “How else” and you would already have become an Inventor or Pioneer. Wealth creation is meaningless unless it heralds prosperity for posterity. That warrants ethical responses from all stakeholders. That also demands an aspiration to see from a larger canvas and for a longer horizon. Or in other words, flavour your business offering with a sense of ethics and generations will call you a Visionary !!! Nurture the Visionary in you!!! This is a common dream!!!



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total Appeared	Total Passed	% Pass
IV/IV B.Tech	II Sem	129	128	99.22
	I Sem	118	128	92.18
III/IV B.Tech	II Sem	140	129	92.14
	I Sem	137	124	90.51
II/IV B.Tech	II Sem	143	114	79.72
	I Sem	142	120	84.50
I/IV B.Tech	II Sem	179	160	89.38
	I Sem	179	164	91.62

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on "**Cognitive Wireless Sensor Networks**" on June 19<sup>th</sup>, 2013 under IETE (ISF) Student's forum.

**Resource Person:**

**Dr. G.Ramamurthy,**

**Professor, IIT Hyderabad.**

2. A guest lecture was conducted on "**Signal Processing & Research Opportunities**" on February 14<sup>th</sup>, 2013 under IETE (ISF) Student's forum.

**Resource Person:**

**Sri T.Sivanaga Raja,**

**Research Scholar, South Korea.**

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. **P.P.S.Subhashini, Dr. V.V.K.D.V.Prasad**, "**Recognition of Handwritten Digits using RBF Neural Network**" (IJRET) *International Journal of Research in Engineering and Technology*, ISSN 2319-1163, Volume 2, Issue 3, March 2013, pp. 393-397.
2. **K.Upendra Chowdary, G.Ramesh Chowdary**, "**Estimation of MIMO Channel Response for OFDM System with I/Q Imbalance and CFO**" (IJSETR), *International Journal of Scientific Engineering and Technology Research*, ISSN 2319-8885, Volume 2, Issue 3, March 2013, pp.107-111.
3. **S.L.M.V.S.Narayana, N.Renuka**, "**Morphological and Gradient Based Shadow Removal in Video Surveillance System**" (IJESR) *International Journal of Engineering and Science Research*, ISSN 2277-2685, Volume 3, Issue 5, May 2013, pp. 4066-4071.
4. **Ch.Loknadh, K.Upendra Chowdary**, "**Peak To Average Power Ratio Reduction in MIMO-OFDM System using Adaptive Active Constellation Extension (Adaptive Ace) without Side Information**", (IJIRD) *International Journal of Innovative Research and Development*, ISSN 2278-0211, Volume 2, Issue 5, May 2013, pp. 1278-1286.

5. V.Venkateswara Rao, P.Siva Prasad, "Design of Squinted Beam Slotted Linear Array Antenna for Radar Application" (IJSR) *International Journal of Science & Research* , ISSN 2319-7064, Volume 2, Issue 5, May 2013, pp. 469-472.
6. Shaik Basheera, P.V.Naganjaneyulu, N.Renuka, "Distortion Free Fragile Watermarking Techniques for Medical Images" (IJCSSEITR) *International Journal of Computer Science Engineering and Information Technology Research*, ISSN 2249-6831, Volume 3 , Issue 2, June 2013, pp. 187-192.
7. G.Sudhavani, G.Madhuri, P.Venkateswara Rao, K.Sathya Prasad, "Removing Gaussian Noise from Color Images by Varying the Size of Fuzzy Filters" (IJCA) *International Journal of Computer Applications*, ISBN 973-93-80875-77-5 , Volume 72, Issue 17, June 2013, pp. 14-20.
8. G.Sudhavani, G.Madhuri, P.Venkateswara Rao, K.Sathya Prasad, "Additive Noise Removal for Color Images using Fuzzy Filters" (IJCSSEA) *International Journal of Computer Science, Engineering and Applications*, ISSN 2231-0088, Volume 3, Issue 3, June 2013, pp. 1-10.
9. Dr. V.V.K.D.V.Prasad, M.V.S.L.Ramya Sree, Presented a Paper titled "Embedded DSP Technology for Smart IP Camera in Advanced Surveillance Systems" in 2<sup>nd</sup> International Conference on Communication and Signal Processing at QIS College of Engineering and Technology, Ongole, during April 1-3, 2013.
10. A.Ravi, N.Renuka, Presented a Paper titled "Image Enhancement Technique in aerial images by using Wavelet based compression" in 2<sup>nd</sup> International Conference on Communication and Signal Processing at QIS College of Engineering and Technology, Ongole, during April 1-3, 2013.
11. Dr.V.V.K.D.V.Prasad, Professor, M.Suresh, Assistant Professor, A.Murali Krishna, Assistant Professor, Presented a Paper titled "Wavelet based Denoising of Biological Signals using A New Thresholding Filter" in International Conference on Advances in Engineering & Technology (ICAET) at Dr. M.G.Research Unit, Chennai, during April 5-6<sup>th</sup>, 2013.
12. K.Sravanthi, Assistant Professor, N.Renuka, Associate Professor, Presented a Paper titled "Implementation of Linear Phase Filter with High Performance and Low Delay" in National Conference on Emerging Trends in Electronics & Communication Engineering NCETEC-2013 organized by department of Research and Development GIST, SPSR, Nellore on April 20<sup>th</sup>, 2013.

#### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. P.Siva Prasad, Assistant Professor, attended a Workshop on "Low Power VLSI Design using Cadence Tools", conducted by The School of Electronics Engineering, VIT, Chennai, during January, 24-25, 2013.
2. Dr. M.V.S.Prasad, Professor, attended a short course "Model topics in Antenna Measurements, Diagnostics and Optimizations: From Fundamentals to Recent Advances" organized by Society of EMC Engineers (India), Bangalore, during February 14-15<sup>th</sup>, 2013.
3. G.Sudhavani, Associate Professor attended a National Seminar on "Speech Processing Research Trends & Applications" organized under TEQIP-II S.C.12, at departments of ECE, VR Siddhardha Engineering College, Vijayawada, during February 15-16<sup>th</sup>, 2013.

4. **Dr. V.V.K.D.V.Prasad**, Professor, **G.Sudhavani** Associate Professor, members of the department have attended a National Seminar on "**Remote Sensing, Image Processing & Applications**" organized by Departments of CSE and EIE, Vijayawada, during February 25-26<sup>th</sup>, 2013.
5. **N.Renuka**, Associate Professor, **K.Sravanthi**, Assistant Professor, **B.Lokeshwar**, Assistant Professor, members of the department have attended a Two Day National Workshop on "**Advanced VLSI Technology and TEQIP - II**" organized by Departments of ECE, University College of Engineering, JNTUK, Kakinada, during April 26-27<sup>th</sup>, 2013.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. II/IV B.Tech Students attended training program on Skill set Development & Career Opportunities (Advanced Level) conducted by M/s Reacheights Educational Training & CP Ltd., Guntur on January 8<sup>th</sup>, 2013.
2. IV/IV B.Tech Students attended training program on Interview Skills and Profile Building for better job opportunities by Mr. Mohammed Abdullah IISC, Bangalore, Conduira on January 5<sup>th</sup>, 2013.
3. III/IV B.Tech Students attended training program on Group Discussion & Mock Interview given by Mr. Vinay Kumar, MSME, Hyderabad on February 11<sup>th</sup>, 2013.
4. I/IV B.Tech Students attended training program on Importance of Body Language and Mannerisms conducted by M/s Seventh Sense, Bangalore, on April 8<sup>th</sup>, 2013.

### FACULTY ACHIEVEMENTS

1. **Dr. A. Sudhakar**, Principal, awarded Rs. 9,02, 800/- (Nine Lakhs two thousand and Eighty Hundred only) from UGC, New Delhi under Major Research Project Scheme on the topic, "**Analysis and Measurements of Ultra Wide Band Signal Attenuation Through Typical Building Materials**", **Smt. D. Madhavi**, Assistant Professor, Department of Physics, is the Co-Investigator for this project.

### STUDENT ACHIEVEMENTS

1. **A.Naga Gopi Krishna** bearing roll Y9EC801, Secured highest marks (4799/5225) 91.84% during I semester IV/IV B.Tech and was awarded Late Sri Rayapati Venkata Ranga Rao Seetha Ravamma Gold medal for the academic year 2011-2012.

## INDUSTRIAL VISITS

1. III B.Tech. ECE students visited “National Atmospheric Research Laboratory (NARL)” at Tirupathi on 31<sup>st</sup> January, 2013.

The following faculty members accompanied the students:

**Mr. A.Murali Krishna**, Assistant Professor

**Ms.T.Suneetha**, Assistant Professor

2. II B.Tech. ECE students visited **SDSC SHAR, Sriharikota** on 19<sup>th</sup> March, 2013.

The following faculty members accompanied the students:

**Mr. A.Murali Krishna** Assistant Professor,

**Mrs. M.Suneetha**, Assistant Professor

**Mr. P.V.Krishna Kanth**, Assistant Professor

## STUDENTS PARTICIPATION

S.No	Name	Reg. No	Event Name	College Name	Dates
1	Y.R.Sai Tejesh Raju	Y10EC917	ACUMEN EEE'13	Vasavi College of Engineering,	28- 29, Jan 2013
2	Ch.Narasimha Rao	Y10EC812	Vignan Mahotsav 2013	Vignan University, Guntur	4-5 Jan 2013
3	I.Baji Babu	Y10EC831			
4	K.V.S.Krishna Phani	Y11EC 854			
5	Ch.Mallikarjuna	Y10 EC814			
6	B.Srikanth	Y9EC 807			
7	G.Pavan Kumar	Y9 EC 832			
8	E.Trinadh Reddy	Y9 EC 831			
9	K.Naga Praveen	Y9 EC837			
10	K.V.Avinash	L11 EC 931			
11	K.V.V.S.R.Bhaskar	Y10 EC839			
12	T.Hareesh	L12 EC939			

13	K.Sravani	Y11 EC838	Android Botix	IIIT Hyderabad	5-6 Jan 2013
14	A.Mouni Mohammed	Y11EC 805			
15	P.Lihitha	Y11 EC804			
16	A.Prashanthi	Y11 EC804			
17	K.Sahithi	Y11 EC846			
18	Durga Sai CHandana	Y11EC 820			
19	A.Navya	Y11 EC802			
20	J.Tejasvi	Y11 EC833			
21	K.Moulika	Y11 EC 839			
22	G.Pavan Kumar	Y9 EC 832	Electrofest-2k13	Guntur engg. College, Guntur	7-9 jan 2013
23	G.Pavan Kumar	Y9EC 832	Prayaga 2013	Tirumala engineering	9-10 jan 2013
24	E.Trinadh	Y9 EC 831	AFOSEC - 2013	VRSidhartha Engg. College	20-21 Feb 2013
25	V.V.Sai Suman	Y11EC 916	E-Plus Club Challenge 2013	Sidhartha Academy ,	24 <sup>th</sup> feb 2013
26	M.Susmitha	Y11 EC903	E-Plus Club Challenge 2013	Sidhartha Academy ,	24 <sup>th</sup> feb 2013
27	A.Nihar	Y11 EC803	E-Plus Club Challenge 2013	Sidhartha Academy ,	24 <sup>th</sup> feb 2013
28	B.Ravi Teja	Y10EC808	Scintillace 2k12	JNTUA College of Engineering,	27 & 28 Febru 2013
29	G.S.Andand	Y10EC826	Scintillace 2k12	JNTUA College of Engineering,	27 & 28 Febru 2013
30	K.V.S.Phani rohith	Y11 EC854	Pragyan 2013	NIT Tiruchirappalli	28 <sup>th</sup> feb to 3 <sup>rd</sup> march
31	Ch.Raghuveer	Y11 EC815	Pragyan 2013	NIT Tiruchirappalli	28 <sup>th</sup> feb to 3 <sup>rd</sup> march

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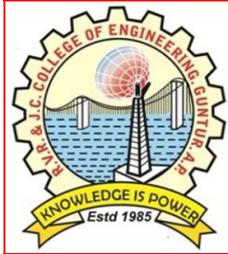
Dr.MVS Prasad, Professor of ECE

J.Ravindranadh,Assoc. Prof of ECE

P.Sivaprasad, Asst. Prof of ECE

S.Ramesh Babu, Asst. Prof of ECE

K.Upendra Chowdary, Asst. Prof of ECE



**RVR & JC COLLEGE OF ENGINEERING**

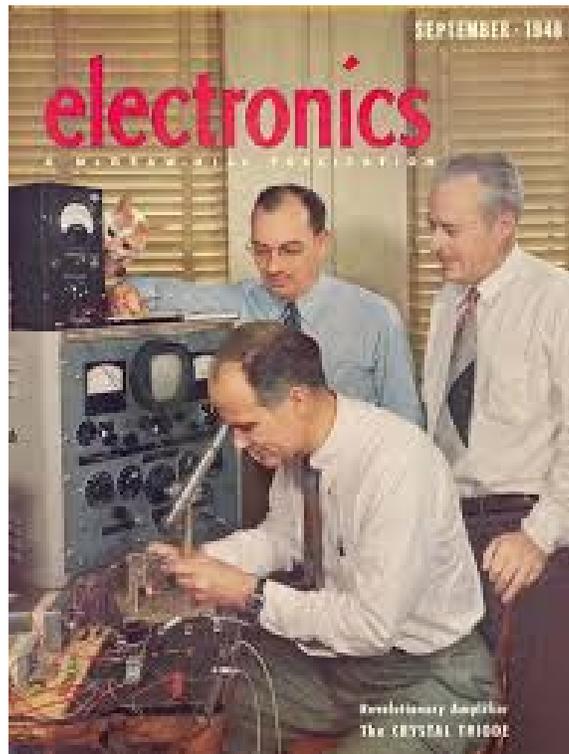
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**January – June 2014, Volume 3, Issue 1**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

## ABOUT ECE DEPARTMENT

The department of ECE came into existence in 1985 immediate when the institute was founded. It was started with an intake of 40 which was subsequently raised to 180 over a period of time. M.Tech course approved by AICTE in communication engineering and signal processing was started in 2010. The department is presently offering 4years B.Tech degree program in ECE and 2 years M.Tech degree program in communication engineering and signal processing.

### **VISION:**

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### **MISSION:**

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

### **Program Educational Objectives (PEO's):**

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

To keep pace with the evolving technology, there is an increasing demand for man-power with engineering potential who is analytical, creative, and logical, a problem solver, a realist, who is versatile and forward thinking.

To meet this demand, our Department of ECE grooms the students to excel in the field of technology with a traditional and broad-based course which aims to produce well-rounded engineers with a high level of analytical and engineering design skills. Trained in both software and hardware skills and basic inputs to make them self-confident, our students are equipped to work in industry and pursue higher studies. Our motto being to upgrade the skills and knowledge of our young engineers to enable them to survive best in the best competitive world our students are encouraged to participate in various technical and extracurricular events.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD :**

ECE is one of the largest and fastest growing fields of engineering. ECE has a vital position in this technology revolution. Electronics & Communication Engineering gives enormous job opportunities in Electronics and Software Companies, Electronics Industry being a labor intensive industry provides many job opportunities for the skilled job seekers. ECE Education as always been dynamic and incoherent with the current development as well as innovations in creating new technologies. It is no exaggeration to say, There is no person in the world who is not using Electronic Product in one or the other way.

The department runs UG and PG Programmes namely B.Tech in ECE and M.Tech in CESP. The department has a team 33 members whose interest span almost all areas of Electronics & Communication and 650 UG and 18 PG students. we have over 10 Labs with advanced equipment and facilities for supporting our teaching and research.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total appeared	Total Passed	% Pass
IV/IV B.Tech	I Sem	135	135	100.00
	II Sem	138	137	99.27
III/IV B.Tech	I Sem	143	130	90.90
	II Sem	143	128	89.51
II/IV B.Tech	I Sem	211	166	78.67
	II Sem	213	172	80.75
I/IV B.Tech	I Sem	180	168	93.33
	II Sem	18	17	94.44

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on **"Micro & Nano Engineering"** for on 1<sup>st</sup> March, 2014 under ECE Association.

**Resource Person: Sri Manimohan Trinadh,**  
**Research Scholar, IIIT Hyderabad.**

2. A guest lecture was conducted on **"Embedded Systems"** on 24<sup>th</sup> February, 2014 under IETE Students' Forum.

**Resource Person: Sri S.R.T.Ramaswamy,**  
**Vice-President, Efftronics Systems Pvt Limited.**



3. A guest lecture was conducted on **"Importance of Higher Education"** on 1<sup>st</sup> March, 2014 under IETE Students' Forum.

**Resource Person: Sri K.Saiprasad Chowdary,**  
**Director, Veda Tech, Hyderabad.**

4. The department has organized A Two-Day Hands-on workshop on “**Robot Virtual world with RobotC**” for II/IV B.Tech (ECE) students from 03.04.2014 to 04.04.2014.
5. The department has organized One-Day workshop on “**Designing Methodologies on Embedded Systems**” for IV/IV B.Tech Students on 24<sup>th</sup> June 2014.

### PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. **P.P.S.Subhashini**, Associate Professor, Dr. M.Satya Sairam, Dr. D.Srinivasa Rao “**Speaker Identification with Back Propagation Neural Network using Tunneling Algorithm**”, International Journal of Engineering Trends and Technology, Vol.9, Issue 3, ISSN: 2231-5381, pp:106-112, March 2014.
2. **Dr. M.V.S.Prasad**, Professor, D.Asha, M.Himaja “**Radiation from Circular array of Polyethylene Dielectric Rod Antennas**”, International Journal of Engineering Innovation and Research, pp:232-235, Vol. 3, Issue 3, ISSN:2277-5668, May 2014.
3. **G.Sudhavani**, Associate Professor, S.Sravani, P.Venkateswara Rao “**Fuzzy Edge Linking Process on Fuzzy Noise Filtered Image**”, International Journal of Computer Applications, Vol. 93, Issue 15, ISSN:**0123-4560**, pp:33-40, May 2014.
4. **M.Suresh, A.Muralikrishna** Asst.Professors, “**Optimizing the Redundancy using chorus in Wireless Networks**”, International journal of Advance Research in Science & Engineering (ISSN2319-8354), pp:39-46, Vol.3, June 2014, Issue.06.
5. **Dr. G.Sudhavani**, Associate Professor, M.Srilakshmi, P.Venkateswara Rao, K.Satya Prasad “**Comparison of Fuzzy Contrast Enhancement Techniques**”, International Journal of Computer Applications, Vol. 95, Issue 22, ISSN:**0123-4560**, pp:26-31, June 2014.
6. **P.P.S.Subhashini**, Associate Professor, Dr. M.Satya Sairam, Dr. D.Srinivasa Rao “**Text Independent Speaker Recognition using combined LPC and MFC Coefficient**”, International Journal of Research in Engineering and Technology, pp:508-516, Vol.3, Issue 6, ISSN: 2319-1163, June 2014.

### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. **U.Ramakrishna**, Assistant Professor attended a One day National Workshop on “**Research Mythologies in EM Theory**”, organized by department of ECE, VVIT, Guntur, on January 6<sup>th</sup>, 2014.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. IV/IV B.Tech Students attended training program on Orientation on Pre-placement Training and Industry Expectations Conducted by **M/s Seventh sense Talent Solutions**, Bangalore on June 17<sup>th</sup>, 2014.

### FACULTY ACHIEVEMENTS

1. **Smt G.Sudhavani**, Associate Professor, department of electronics & communication engineering has been awarded Ph.D Degree by JNTU, Kakinada, Andhra Pradesh for thesis entitled “**Fuzzy ART Based Color Lip Image Segmentation**”, March, 2014.
2. **Smt N.Renuka**, Associate Professor, department of ECE has been registered for part time Ph.D Degree with ANU, Guntur on March, 2014.

## FACULTY CONTRIBUTIONS

1. **Dr. M.V.S.Prasad**, Professor, Dept. of ECE has delivered Guest Lecture on “Antennas for millimeter wave Applications”, on behalf of IETE Students forum Day celebrations, at organized by Dept of ECE, Guntur Engineering College, Yanamadala, Guntur on 1<sup>st</sup> February 2014.

## PLACEMENT DETAILS

S.No	Company Name	No. of Students Selected
1	Virtusa, 4 <sup>th</sup> & 5 <sup>th</sup> , Januaray 2014	2
2	Tech Mahindra,24.04.2014	4
3	Com Tec Information Systems, Hyd., 28.04.2014	4
4	Idea Cellular, 02.07.2014	1

## STUDENTS PARTICIPATION

S.No	Name	Reg. No	Event Name	College Name	Dates
1	D.Ravikrishna	Y11EC821	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
2	S.Krishna Teja	Y11EC853	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
3	A.Nihar	Y11EC803	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
4	B.Syam Kumar	Y11EC 811	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
5	M.Vamsikrishna	Y11EC 859	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
6	B.Srikanth	Y11EC808	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
7	M.Srividhya	Y11EC866	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014
8	V.Lokapavani	Y11EC 917	Vignan Mahotsav 14	Vignan University	10 <sup>th</sup> 11 <sup>th</sup> Jan 2014

EDITORIAL BOARD

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Dr.T.Ranga Babu,Prof.&amp; Head,ECE

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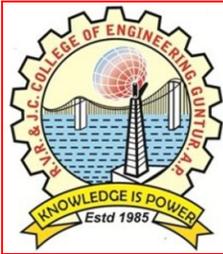
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P.Sivaprasad, Asst. Prof of ECE

M.Suneetha, Asst. Prof of ECE



**RVR & JC COLLEGE OF ENGINEERING**

**(Autonomous)**

**Chowdavaram, Guntur-522019**

# **IMPULSE**

**(A HALF YEARLY ECE NEWS LETTER)**

**Jan – June 2015, Volume 4, Issue 1**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

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The department has well experienced and dedicated Teaching&nonteaching members. The department is keeping pace with the fast changing technology of Electronics and Communication in terms of its teaching program and laboratory activities. In addition to core electronic subjects software based subjects are also included in the syllabus which makes this course suitable for core electronics and many IT industries. The department was accredited four times by National Board of Accreditation (NBA) in the years 1998, 2002, 2007, 2012 with good grades.

### VISION:

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### MISSION:

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

**MESSAGE FROM PRINCIPAL :****Dr.A.Sudhakar, Professor of ECE & Principal**

Electronics equipment and products are becoming a necessary part of our daily lives, from simple MP3 players, mobile phones and computers, to highly-sophisticated diagnostic equipment used in hospitals and state-of the-art fibre optic communications systems. Computers, telecommunication systems and consumer electronics are advancing at a fast pace.

To keep pace with the evolving technology, there is an increasing demand for man-power with engineering potential who is analytical, creative, and logical, a problem solver, a realist, who is versatile and forward thinking.

To meet this demand, our Department of ECE grooms the students to excel in the field of technology with a traditional and broad-based course which aims to produce well-rounded engineers with a high level of analytical and engineering design skills. Trained in both software and hardware skills and basic inputs to make them self-confident, our students are equipped to work in industry and pursue higher studies. Our motto being to upgrade the skills and knowledge of our young engineers to enable them to survive best in the best competitive world our students are encouraged to participate in various technical and extracurricular events.

The department has qualified and dedicated faculty members to provide good technical support and give individual attention to all the students. The vision to become a centre of excellence in the field of electronics and communication engineering is supported by our faculty and students who are dedicated to achieve this goal with enthusiasm and good ethical values. We hope that we will continue to deliver our best to serve the society and expect our students to pass on the skills that they have developed during their interaction with our department.

**MESSAGE FROM HOD :****Dr.T.Ranga Babu, Prof. & Head, Dept. of ECE**

I Inviting you to the most Electrifying department producing engineers with the power of knowledge and experience, established in 1984 and is one of the leading and oldest departments in the field.

When Alexandar Grahambell invented the Telephone and Marconi developed the radio in 19th century no one dreamt that these two distinct technologies together would create another wonderful product that is cell phone which is now part of everybody's life.

ECE is one of the largest and fastest growing fields of engineering. ECE has a vital position in this technology revolution. Electronics & Communication Engineering gives enormous job opportunities in Electronics and Software Companies, Electronics Industry being a labor intensive industry provides many job opportunities for the skilled job seekers. ECE Education as always been dynamic and incoherent with the current development as well as innovations in creating new technologies. It is no exaggeration to say, There is no person in the world who is not using Electronic Product in one or the other way.

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## ACADEMIC RESULTS

Year		Total Appeared	Total Passed	% Pass
IV/IV B.Tech	II Sem	143	140	97.9
	I Sem	143	136	95.1
III/IV B.Tech	II Sem	206	170	82.52
	I Sem	207	177	85.5
II/IV B.Tech	II Sem	212	168	79.24
	I Sem	209	149	71.29
I/IV B.Tech	I Sem	177	160	90.39

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on **“Future Scope of Embedded Systems & VLSI Design”** on March 4<sup>th</sup>, 2015.

**Resource Person:**

**Dr. M. Chandrasekhar,**

Senior Manager, BDL, Hyderabad.



2. A Two-Day Workshop was conducted on **“LABVIEW and its Applications”** during 12-02-2015 to 13-02-2015 for III/IV B.Tech (ECE) students.

**Resource Person:**

**M/s Visolutions, Bangalore.**



3. A Two day Workshop was conducted on **“PCB Design and its Fabrications”** during 12-02-2015 to 13-02-2015 for II/IV B.Tech ECE Students.

**Resource Person:**

**M/s Nest Arena, Hyderabad**



4. **ARISTOZ 2K15** was conducted at RVR&JC for Students from various Engineering Colleges on 28-02-2015.



### PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. A research paper on **“Enhancement of Low Contrast Images using Fuzzy Techniques”** written by **Dr. G.Sudhavani**, Professor, **M.Srilakshmi**, **S.Sravani**, **Sri P.Venkateswara Rao**, was published in *IEEE Journal of Electronics and Communication Engineering (IOSR-JECE)*, Vol.10, Issue 1, pp.79-86, January 2015, ISSN: 2278-2834.
2. A research paper on **“Performance and Analysis of PAPR Reduciton Schemes based on improved low complexity four partial transmit sequences and constellation methods”**, written by **Ms. N.Renuka**, Associate Professor, **Dr.M.Satyasai Ram**, **Dr. P.V.Naganjanjeyulu**, was published in *IEEE Journal of Electronics and Communication Engineering (IOSR-JECE)*, Vol.10, Issue 1, pp.436-442, January 2015, ISSN: 2278- 2834.

3. A research paper on “Development of an Algorithm for 16-Bit WTM” written by **K.Sravanthi, Dr.V.V.K.D.V.Prasad, B.V.Vasantha Rao**, was published in the *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)*, Vol.10, Issue 1, pp.79-86, January 2015,ISSN: 2278-2834.
4. A research paper on “Emotion and Gender Recognition of Speech Signals using SVM” written by **S.Sravan Kumar, Dr. T.Ranga Babu**, Professor, was Published in *International Journal of Engineering Science and Innovative Technology (IJESIT)*, Vol 4, Issue 3, pp.128-137, May 2015, ISSN: 2319-5967.
5. A research paper on “An Improved speech denoising and Enhancement Based on Radon Transform and Local Ridgelet Transform” written by **P.P.S.Subhashini, J.Ravindranadh**, Associate Professors, was published in *International Journal & Magazine of Engineering, Technology, Management and Research*, Vol No: 2, Issue No: 5, pp. 235, May 2015, ISSN No:2348-4845.
6. A research paper on “An efficient and low complex noise canceller for ECG signal enhancement” written by **M.Suresh, A.Murali Krishna**, Asst. Professors, was Published in *International Journal of Electrical Electronics And Computer Systems*, volume 3 issue 7 2015, Jun 2015, ISSN No.2347- 2820.
7. A research paper on “Face Detection and Tracking in Fuzzy Enhanced Low Contrast Images” written by **Dr. G.Sudhavani, Professors, K.Jaya Ram, P.Venkateswara Rao** was published in *International Journal of Computer Applications*, Vol.119, Issu.16, June 2015, ISBN: 973-93-80887-30-9.
8. A research paper on “A Novel PAPR reduction scheme using Pre-coding Matrix Based DH Transform for OFDM Systems” written by **Y.Prasanthi, N.Renuka**, Associate Professor, was published in *International Journal and Magazine of Engineering. Technology, Management and Research, IJMETMR*, Vol.2, Issue: 6, pp.712-717, June 2015, ISSN No.2348-4845.
9. A research paper on “Reducing Timing Jitter in OFDM Systems using Oversampling” written by **J.Harshitha, Ms. N.Renuka**, Associate Professor was Published in *International Journal and Magazine of Engineering. Technology, Management and Research, IJMETMR*, Vol.2, Issue: 6, pp.718-721, June 2015, ISSN No.2348-4845.
10. **Dr.G.Sudhavani, M.Srilakshmi, S. Sravani** ,presented a paper on “Enhancement of Low Contrast Images Using Fuzzy Techniques” in the International Conference on Signal Processing and Communication Engineering System, SPACES – 2015, Conducted By Department Of Electronics And Communication Engineering KL University, Vaddeswaram, during 2<sup>nd</sup> & 3<sup>rd</sup>, January, 2015.
11. **Prasad Ray, Dr.M.V.S.Prasad**, Professor **P.V.V.Kishore**, presented a paper on “Modelling Simulation of Multi user Grouping Considering Channel States in MIMO Systems” in the International Conference on Signal Processing and Communication Engineering System, SPACES – 2015, Conducted By Department Of Electronics And Communication Engineering KL University, Vaddeswaram, during 2<sup>nd</sup> & 3<sup>rd</sup>, January, 2015.
12. **Ms. N.Renuka**, Associate Professor **Dr. M.Satya Sai Ram, Dr. P.Naganjaneyulu** presented a paper on “Performance and analysis of PAPR reduction schemes based on improved low complexity four partial transmit sequences and constellation methods” in the International Conference on Signal Processing and Communication Engineering System, SPACES – 2015, conducted by department of Electronics and Communication Engineering,KL University, Vaddeswaram,, during 2<sup>nd</sup> & 3<sup>rd</sup>, January, 2015.

13. **D. Arun Kumar, U.Ramakrishna**, Asst. Professor, **Dr .A.Sudhakar** ,Professor presented a research paper on “**A Review on Design of Microstrip Patch Antennas Using Different Techniques**” in the IEEE Sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems ICIECS’ on 19, March 2015.
14. **M.Suresh, Asst. Professor, Sk.Yasmin Fathima,,A.Murali Krishna**, Asst. Professor, presented a research paper on “**An efficient and low complex noise canceller for ECG signal enhancement**” written by, was Published in International Conference On Recent Trends & Innovations In Engineering & Technology, May 2015.

### WORKSHOPS/SEMINARS/FDP’s ATTENDED BY THE FACULTY

1. **Ms. T.Suneetha, Ms. P.Saiaja** Assistant Professors, attended an International Conference on “**Signal Processing And Communication Engineering Systems (SPACES-2015)**”, conducted by Dept of Electronics And Communication Engineering KL University, Vaddeswaram, during 2<sup>nd</sup> & 3<sup>rd</sup> January, 2015.
2. The following faculty members attended a one day Faculty Development Programme on “**Applications of MATLAB for Engineering Applications**”. organized by the department of ECE, QIS College of Engineering & Technology, Ongole, on March 14,2015.
  - 1) **Ms N.Renuka**, Associate Professor
  - 2) **Ms P.P.S.Subhashini**, Associate Professor
  - 3) **Mr. U.Ramakrishna**, Assistant Professor
  - 4) **Ms. P.Saiaja**, Assistant Professor
  - 5) **A.Murali Krishna**, Assistant Professor
  - 6) **Mr. S.Ramesh Babu**, Assistant Professor
3. **Dr. T.Ranga Babu**, Professor & HOD, attended a two day Workshop on “**QualNet for Adhoc & Sensor Networks**”, organized by Velammal Engineering College, Chennai, during 25th – 26th March 2015.
4. **Dr. G.Sudhavani** Professor, **Mr. K.Upendra Chowdary**, Asst.Professor attended a one day Workshop on “**Research and Development Facilitation**”, organized by Institute of Engineering (IE), Vijayawada during 29th March, 2015.
5. The following faculty members attended a two days seminar on “**Foundation of Random Processes & Video Analytics Applications**”. organized by the department of CSE, V.R. Siddhartha Engineering College, Vijayawada, during 29th – 30th April, 2015.
  - 1) **Dr. G.Sudhavani**, Professor
  - 2) **Ms P.P.S.Subhashini**, Associate Professor
  - 3) **Mr. S.Ramesh Babu**, Assistant Professor
  - 4) **Mr. K.Anil Kumar**, Assistant Professor
  - 5) **Mr. D.Jagadeesh**, Assistant Professor.
6. **Ms P.P.S.Subhashini**, Associate Professors, **Mr. M.Suresh**, Asst.Professor attended a two day Workshop on “**Embedded System and Wireless Sensor Networks**”, organized by Vignans University, Vadlamudi, Guntur, during 18th – 19th April, 2015.
7. **Mr. U.Ramakrishna**, Asst.Professor, attended a one day Workshop on “**Smart SPICE for Electronic Engineers and Device Sciencists**”, organized by VIT, Vellore’, on 18th April 2015.

8. **Mr. U.Ramakrishna**, Asst.Professor, attended a one day Workshop on “Smart SPICE for Electronics Engineers and Device Scientists”, organized by VIT, Vellore, during 18th April 2015.
9. **Mr. B.Haneesh Chaitanya, Mr. K.Ashok Kumar**, Asst.Professor, attended a two day Workshop on “Industrial Training Program for Young Faculty”, organized by ISTE, RVR & JC College of Engineering, Guntur, during 1<sup>st</sup> – 2<sup>nd</sup> May, 2015.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. III/IV B.Tech Students attended training program on Art of Selling Career Opportunities, Higher Education conducted by Mr.Adithya Lanka, Director, New Projects, M/s. Conduira Education & Training Services on January 22<sup>nd</sup>, 2015.
2. IV/IV B.Tech Students attended training program on Overseas Education by Mr. Raghavan G, Director M/s Jaitra Kalike Pvt. Ltd., Bangalore on January 23<sup>rd</sup>, 2015.
3. III/IV B.Tech Students attended training program on CRT, Module I by M/s. Triumphant Training Solutions, Hyd.& Module II – M/s Seventh Sense, Bangalore on February 16<sup>th</sup>, 2015 to February 21<sup>th</sup>, 2015.

### PLACEMENTS

S.No.	Company	Date(s) of Interview	Number of students selected
1	Idea Cellular	27 <sup>th</sup> January,2015	1
2	FluxGen	12 <sup>th</sup> February,2015	1
3	ComTec Information Systems	23 <sup>rd</sup> February , 2015	1
4	Miracle Software Systems	27 <sup>th</sup> February, 2015	2

### STUDENTS PARTICIPATION

S.No	Name	Reg. No	Event Name	College Name	Dates
1	A.Syam Chandar	Y13EC802	SHASTRA-2015	IIT,Chennai	03-01-2015
2	A.Venkata Sai Pavan	Y13EC 803	SHASTRA-2015	IIT,Chennai	03-01-2015
3	A.V.S.N.Phanindra	Y13EC 804	SHASTRA-2015	IIT,Chennai	03-01-2015
4	B.Rajesh Chowdary	Y13EC 809	SHASTRA-2015	IIT,Chennai	03-01-2015
5	Ch.Srihari	Y13EC 820	SHASTRA-2015	IIT,Chennai	03-01-2015
6	Ch.Y.V.Sandeep	Y13EC 823	SHASTRA-2015	IIT,Chennai	03-01-2015
7	D.Ramesh Babu	Y13EC 828	SHASTRA-2015	IIT,Chennai	03-01-2015
8	G.Sujith	Y13EC 849	SHASTRA-2015	IIT,Chennai	03-01-2015
9	B.Eshwar Kaushik	Y13EC 819	SHASTRA-2015	IIT,Chennai	03-01-2015
10	D.Neelima	Y13EC 829	SHASTRA-2015	IIT,Chennai	03-01-2015

11	J.Harika	Y13EC 860	SHASTRA-2015	IIT,Chennai	03-01-2015
12	Ch.Durga devi	Y13EC 824	SHASTRA-2015	IIT,Chennai	03-01-2015
13	G.Naveena	Y13EC 844	SHASTRA-2015	IIT,Chennai	03-01-2015
14	B.Vaishnavi	L14EC982	SHASTRA-2015	IIT,Chennai	03-01-2015

## GATE RESULTS

S.No	Name	Reg. No	RANK
1	M.Amani	Y11EC876	1214
2	S.Sai Krishna	Y11EC901	1835
3	B.Srilakshmi	Y11EC899	4387
4	VK Geethika	Y11EC914	4388
5	M.Tejaswini	Y11EC870	10144
6	K.Sahithi	Y11EC846	11000
7	P.Abhijith	Y11EC887	12829
8	S.Siva kumar	Y11EC897	14108
9	M.Deepthi	Y11EC864	15333
10	Y.Sravani	Y11EC918	15857
11	K.Himaja	Y11EC861	16150
12	N.Venkatesw ara Reddy	L12EC934	18512
13	M.Koteswara Rao	Y11EC868	30841

### EDITORIAL BOARD

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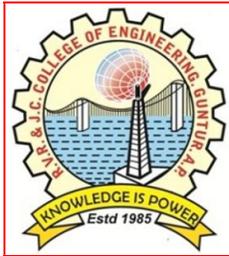
Dr.MVS Prasad, Professor of ECE

J.Ravindranadh, Assoc. Prof of ECE

U.Ramakrishna, Asst. Prof, ECE

P.Sivaprasad, Asst. Prof of ECE

M.Suneetha, Asst. Prof of ECE



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**(Autonomous)**

**Chowdavaram, Guntur-522019**

# IMPULSE

(A HALF YEARLY ECE NEWS LETTER)

**January – June 2016, Volume 5, Issue 1**



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ENGINEERING**

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- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

To keep pace with the evolving technology, there is an increasing demand for man-power with engineering potential who is analytical, creative, and logical, a problem solver, a realist, who is versatile and forward thinking.

To meet this demand, our Department of ECE grooms the students to excel in the field of technology with a traditional and broad-based course which aims to produce well-rounded engineers with a high level of analytical and engineering design skills. Trained in both software and hardware skills and basic inputs to make them self-confident, our students are equipped to work in industry and pursue higher studies. Our motto being to upgrade the skills and knowledge of our young engineers to enable them to survive best in the best competitive world our students are encouraged to participate in various technical and extracurricular events.



**Dr.A.Sudhakar,  
Prof. of ECE & Director  
(R&D)**

**MESSAGE FROM HOD :**

ECE is one of the largest and fastest growing fields of engineering. ECE has a vital position in this technology revolution. Electronics & Communication Engineering gives enormous job opportunities in Electronics and Software Companies, Electronics Industry being a labor intensive industry provides many job opportunities for the skilled job seekers. ECE Education as always been dynamic and incoherent with the current development as well as innovations in creating new technologies. It is no exaggeration to say, There is no person in the world who is not using Electronic Product in one or the other way.

The department runs UG and PG Programmes namely B.Tech in ECE and M.Tech in CESP. The department has a team 33 members whose interest span almost all areas of Electronics & Communication and 650 UG and 18 PG students. we have over 10 Labs with advanced equipment and facilities for supporting our teaching and research.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total appeared	Total Passed	% Pass
IV/IV	VIII Sem	206	205	99.51
III/IV	VI Sem	213	171	80.28
II/IV B.Tech	III Sem	209	149	71.29
II/IV B.Tech	IV Sem	208	129	62.02
I/IV B.Tech	I Sem	181	156	86.19
I/IV B.Tech	II Sem	181	142	78.45

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on **"Awareness on Higher Education"** for on 29<sup>th</sup> June, 2016 under ECE Association.

**Resource Person: Dr.E.Muneender,**

**Founder and Honorary Advisor, Vishwa Technologies, Hyderabad.**

2. A guest lecture was conducted on **"Embedded Applications for Physical Protection System"** on 05<sup>th</sup> February, 2016 for IV/IV B.Tech ECE Students.

**Resource Person: Sri P.Srinivas,Manager, BDL, Hyderabad**



**PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :**

1. A research paper on '**Multi Video Coding Algorithms/Techniques: A Comprehensive Study**' written by Shaik Rahimunnisha, Professor **G.Sudhavani**, was published in the International Journal of Engineering Research and Application, Vol.6, Issue 6, pp. 14-19,ISSN: 2248-9622, June 2016.
2. A research paper on '**Image Segmentation Techniques: A Review**' written by P.Sasibala, Professor **G.Sudhavani**, was published in the International Journal of Advanced Research in Electronic and Communication Engineering (IJARECE), Vol.5, Issue 6, pp. 1844-1851,ISSN: 2278-909X, June, 2016.
3. A research paper on '**Multiple Object Tracking in Video Sequences - Survey**' written by E.Adinarayana, Professor **Dr. G.Sudhavani**, was published in the International Journal of Research in Advent Technology, Vol.4, Issue 6, pp.42-45,ISSN: 2321-9637, June, 2016.
4. A research paper on '**Skin Cancer Detection**' written by N.Durga Rao, Professor **G.Sudhavani**, was published in the International Journal of Engineering Research and Applications, Vol.6, Issue 6, pp. 60-63,ISSN:2248-9622, June, 2016.
5. A research paper on '**Patch Antenna Performance Investigations**' written by B.Premalatha, Professor **M.V.S.Prasad**, M.B.R.Murthy, was published in the International Journal of Mobile Communication & Networking, Vol.7, Issue 1, pp. 1-8,ISSN: 2231-1203, March, 2016.
6. A research paper on '**Efficient DWT Colour Image Transmission over OFDM fading Channels**' written by P.V.S.Ranjitha, Assoc.Prof. **N.Renuka**, was published in the International Journal & Magazine of Engineering, Technology, Management and Research, Vol.3, Issue 5, pp. 428-433,ISSN:2348-4845, June, 2016.
7. A research paper on '**Text Independent Speaker Identification using SVM with MFCC**' written by B.K.S.Srinivas, Assoc. Prof. **P.P.S.Subhashini**, was published in Global Journal of Advanced Engineering Technologies, Vol.5, Issue 2, pp. 255-266,ISSN: 2277-6370, June, 2016.
8. A research paper on '**Non Stationary Signals (voice) verification system using Wavelet Transform**' written by Assoc. Prof. **P.P.S.Subhashini**, Dr. M.Satya Sairam, Dr.D.Srinivasa Rao, was published in the International Journal and Magazine of Engineering, Technology, Management and Research, Vol.3, Issue 5, pp. 153-159,ISSN: 2348-4845, May, 2016.
9. A research paper on '**Performance Analysis of Patch Antenna with Different Substrates**' written by B.Premalatha, Professor **M.V.S.Prasad**, M.B.R.Murthy, was published in the CMR Journal of Engineering and Technology, Vol.1, Issue 1, pp.1-7, January, 2016.
10. A research paper on '**Preserving Privacy using Column Masking and Data Encryption Techniques**' written by Lakshmi B, Ravindra Babu H, Asst.Professor **A.Murali Krishna**, was published in the International Journal of Computer Sciences and Engineering, Vol.4, Issue 6, pp.136, ISSN.2347-2693, June, 2016.

**WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY**

1. Assistant Professor, **K.Upendra Chowdary**, attended a three day Workshop on 'Short Course on 4G/5G MIMO Wireless Communications', by IIT, Kanpur during 27 – 29 May 2016.
2. Professor **M.V.S.Prasad** attended a Workshop on 'FDP on Software Defined Radio & FEKO Antenna Design / Simulation' organized by VR Siddhartha Engg. College, Vijayawada, on 4 May, 2016.
3. Assistant Professors, **M.Sunitha, P.S.V.Krishna** attended a one day Workshop on 'Antenna Design and Simulation FEKO – 2016, V R Siddartha Engineering College, Vijayawada on 4 May, 2016.
4. Assistant Professor, **P.S.V.Krishna**, attended a Workshop on 'RF analysis Cycle including Multiphysics Concepts and Workflows in CST Studio Suite' organized by CST, Bangalore on 15 March, 2016.

**TRAINING PROGRAMS CONDUCTED/ ATTENDED**

1. **III/IV B.Tech** Students attended training program on Art of Selling Career Opportunities, Higher Education conducted by Mr.Adithya Lanka, Director, New Projects, M/s. Conduira Education & Training Services on January 22<sup>nd</sup>, 2015.
2. **IV/IV B.Tech** Students attended training program on Overseas Education by Mr. Raghavan G, Director M/s Jaitra Kalike Pvt. Ltd., Bangalore on January 23<sup>rd</sup>, 2015.
3. **III/IV B.Tech** Students attended training program on CRT, Module I by M/s. Triumphant Training Solutions, Hyd.& Module II – M/s Seventh Sense, Bangalore on February 16<sup>th</sup>, 2015 to February 21<sup>th</sup>, 2015.

**PLACEMENT DETAILS**

S.No.	Company	Date(s) of Interview	Number of students selected
1	Sigma Business Solutions Pvt. Ltd, Bangalore	09 <sup>th</sup> January,2016	1
2	Cyient Limited, Hyderabad	11 <sup>th</sup> February,2016	4
3	Seventh Sense	27 <sup>th</sup> February , 2016	3
4	General Motors	29 <sup>th</sup> February, 2016	1
5	Allsec Technologies, Chennai	04 <sup>th</sup> February 2016	8
6	Miracle Software Systems ,Visakhapatnam	1 <sup>st</sup> April 2016	1

## GATE RESULTS

S.No	NAME	REG. No	RANK
1	M.Geethika	Y12EC902	1301
2	M.Gowtham Kumar	Y12EC914	1379
3	S.S.Anjani Kumar	Y12EC948	2349
4	D.Deepthi	Y12EC838	2869
5	S.Sivapriya	Y12EC964	3357
6	P.Sunny Babu	Y12EC939	3756
7	A.Maruthi Reddy	Y12EC803	4000
8	J.Sivaram Prasad	Y12EC873	4369
9	P.Satya Bhagat	Y12EC934	4423
10	K.Shalini	Y12EC877	5529
11	P.Sainadh	Y12EC940	8000
12	S.Madhavi	Y12EC935	8001
13	K.Snehasri	Y12EC889	9443
14	P.Akshara	Y12EC930	9444
15	G.Sandhya	Y12EC857	9443
16	G.V.Sundeep Kumar	Y12EC859	11000
17	N.Sowmya	Y12EC922	11001
18	A.Krishna Puja	Y12EC811	12000
19	V.N.Sandeep	L13EC1015	14000
20	A.Ravi Chandra	Y12EC808	14001
21	B.Anusha	Y12EC817	13000
22	L.Krishna Dheeraj	Y12EC896	13559
23	SVSatish Kumar	Y12EC950	16000
24	AVYChaitanya	Y12EC807	16002
25	P.Rajesh	Y12EC933	18000
26	P.Krishna Kanth	Y12EC942	18003
27	V.Sai Krishna	Y12EC969	19409

## STUDENTS PARTICIPATION

S.No	Name	Regd. No	Event	Organized Institute	Date
1	K V Subrahmanyam	Y13EC882	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
2	K. Surendrababu	Y13EC879	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
3	K.Saisatish	Y13EC887	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
4	M. Gopi	Y13EC906	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
5	N. Venkatanarash	Y13EC918	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
6	K. Harshavardhan	Y13EC890	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
7	K.V. Saikumar	Y13EC880	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
8	K.V.V. Prasad	Y13EC865	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
9	M.Jyothisree	Y14 EC 912	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
10	K.Bhuvaneshwari	Y13EC872	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
11	Y. Narendra	Y13EC979	Pravega 2016 (Illusion reality with propeller display)	IISC,Bangalore	30-01-2016 to 31-01-2016
12	M.Rishitha	Y13EC916	Pravega 2016 (Spray Paint art)	IISC,Bangalore	29-01-2016 to 31-01-2016
13	N.Subrahmanyaeswara Rao naik	Y13EC923	Pravega 2016	IISC,Bangalore	29-01-2016 to 31-01-2016
14	PalleAnudeep	Y13EC932	Pravega 2016	IISC,Bangalore	29-01-2016 to 31-01-2016
15	M.Rishitha	Y13EC916	Pravega 2016(Ethical	IISC,Bangalore	29-01-2016 to 31-01-2016

			Hacking)		
16	GaviniMouni kaSai	Y13EC910	Pravega 2016(Ethical Hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
17	M.Komalade vi	Y13EC897	Pravega 2016(Ethical Hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
18	M.Manisha	Y13EC899	Pravega 2016(Ethical Hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
19	M.Jyothisree	Y13EC912	Pravega 2016(Ethical Hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
20	M. Siva naveen	Y13EC910	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
21	B.Chandra	Y14EC861	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
22	K. Aslesha	Y14EC882	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
23	K.Lakshmi pr asanna	Y14EC878	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
24	N.P.sravani	Y14EC911	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
25	Y.Bhargarsai teja	Y14EC979	Pravega2016(br ain hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
26	K.Narendrare ddy	Y14EC891	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
27	P.Vijayalaks hmi	Y13EC931	Pravega 2016(illusion reality with propeller display workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
28	R.R. Chaitanya	Y13EC946	Pravega 2016(illusion reality with propeller display	IISC,Bangalore	29-01-2016 to 31-01-2016

			workshop)		
29	K.Bhuvaneshwari	Y13EC872	Pravega 2016(Arduobotics workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
30	G.Jhansi	Y13EC850	Pravega 2016(Arduobotics workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
31	N.Spandanadevi	Y13EC931	Pravega 2016(brain hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
32	N.Spandanadevi	Y13EC931	Pravega 2016(digital marketing)	IISC,Bangalore	29-01-2016 to 31-01-2016
33	N.Deepika	Y13EC863	Pravega 2016(ethical hacking)	IISC,Bangalore	29-01-2016 to 31-01-2016
34	K.Bhavana	Y13EC885	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
35	M.Meghana	Y13EC905	Pravega 2016(internet of things workshop)	IISC,Bangalore	29-01-2016 to 31-01-2016
37	K.Radhika	Y13EC884	Pravega 2016(tough& augmented reality)	IISC,Bangalore	29-01-2016 to 30-01-2016
38	M.Meghana	Y13EC905	Pravega 2016(tough& augmented reality)	IISC,Bangalore	29-01-2016 to 30-01-2016
39	K.Surendrakumar	Y13EC879	Pravega 2016 (Arduobotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
40	K.V. Subrahmanyam	Y13EC882	Pravega 2016 (Arduobotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
41	Lokeshkrishna	Y13EC892	Pravega 2016 (spray paintart)	IISC,Bangalore	30-01-2016 to 31-01-2016
42	Lokeshkrishna	Y13EC892	Pravega 2016 (ethical hacking)	IISC,Bangalore	30-01-2016 to 31-01-2016
43	K. Saisathish	Y13EC887	Pravega 2016 (Arduobotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
44	M. Tejokrishna	Y13EC914	Pravega 2016 (spray paintart)	IISC,Bangalore	30-01-2016 to 31-01-2016
45	M.Gopi	Y13EC906	Pravega 2016 (Arduobotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
46	N.Venkatanaresh	Y13EC918	Pravega 2016 (Arduobotics)	IISC,Bangalore	30-01-2016 to 31-01-2016

			workshop)		
47	K.Harshavar dhan	Y13EC890	Pravega 2016 (Touch& augmented reality)	IISC,Bangalore	30-01-2016 to 31-01-2016
48	K.V. saikumar	Y13EC880	Pravega 2016 (Ardubotics workshop)	IISC,Bangalore	30-01-2016 to 31-01-2016
49	K. Dheeraj	Y13EC919	Pravega 2016 (Brain hacking)	IISC,Bangalore	30-01-2016 to 31-01-2016
50	K. Dheeraj	Y13EC919	Pravega 2016 (digital marketing)	IISC,Bangalore	30-01-2016 to 31-01-2016
51	A.P.V. Subbarao	Y13EC941	Pravega 2016 (Illusion reality with propeller display)	IISC,Bangalore	30-01-2016 to 31-01-2016
52	M. Sudheerkumar	L14EC1004	Pravega 2016 (Touch& augmented reality)	IISC,Bangalore	30-01-2016 to 31-01-2016
53	M. Sudheerkumar	L14EC1004	Pravega 2016 (Touch& augmented reality)	IISC,Bangalore	29-01-2016 to 30-01-2016
54	D.Susmitha	Y14EC834	Shaastra-2016	IIT,MADRAS	10-01-2016
55	V.Sindhuri	Y14EC977	Shaastra-2016	IIT,MADRAS	10-01-2016
56	K. Dheeraj	Y13EC919	Shaastra-2016	IIT,MADRAS	10-01-2016

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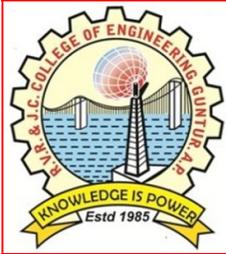
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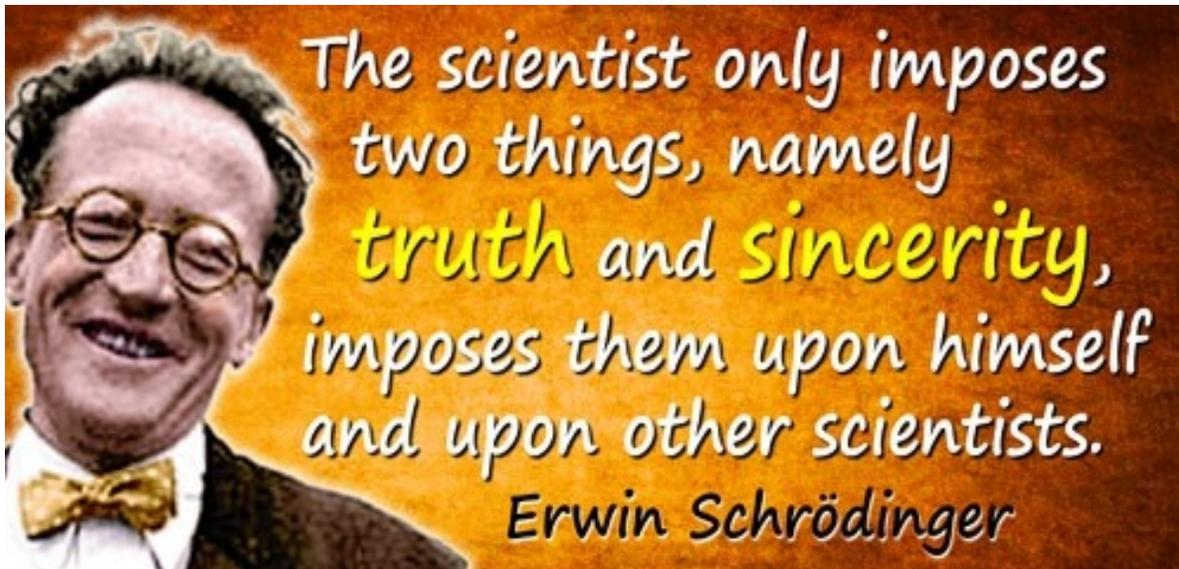
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# **IMPULSE**

**(A HALF YEARLY ECE NEWS LETTER)**

**July – December 2012, Volume 1, Issue 2**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

## ABOUT ECE DEPARTMENT

The department of ECE came into existence in 1985 immediate when the institute was founded. It was started with an intake of 40 which was subsequently raised to 180 over a period of time. M.Tech course approved by AICTE in communication engineering and signal processing was started in 2010. The department is presently offering 4years B.Tech degree program in ECE and 2 years M.Tech degree program in communication engineering and signal processing.

### **VISION:**

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### **MISSION:**

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

### **Program Educational Objectives (PEO's):**

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL:**

It is with great pride I present you this newsletter. It highlights the various activities carried out and organizing in the department and the achievements of the faculty as well as students. ECE is a dynamic and most emerging area in terms of research and thereby providing excellent career opportunities.

We are committed to give our students an environment where they can put their thoughts into actions. The curriculum is so designed to bring this environment into reality. In addition to academic activities, the extra-academic activities in the department bring about the inner potential of the students. I am very happy and confident that this newsletter will enrich the skills and gregariousness in the students.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD:**

The ECE department offer wide opportunities to learn and enrich the knowledge by participating in Research, student groups and so. One such activity that enriches the knowledge and provide current issues in various fields of research is newsletter. I am so glad to release this newsletter as it provides a platform to understand the current issues and concerns in the field of electronics and research.

We have eminent faculty guiding and dedicating to impart qualitative education at various levels. The rich experience in faculty and competitive spirit in students has brought the state-of-art technology into our classrooms. The various student activities taking place in the department will enable the students to realize their dreams and transform them into futurist leaders. It also imparts a sense of “If some one cannot, you can!!”



**Dr.VVKDV Prasad  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total Appeared	Total Passed	% Pass
IV/IV B.Tech	I Sem	138	138	100%
III/IV B.Tech	I Sem	129	122	95.47%
II/IV B.Tech	I Sem	141	113	80.14%
I/IV B.Tech	I Sem	120	96	80.67%

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED:

1. A guest lecture was conducted on “Software Development Life Cycle in Embedded Systems” on August 18, 2012.

**Resource Person:****Sri Kalyan.Manukonda,**

Technical Lead, Mahendra Satyam, Hyderabad

2. A Two day national Level Workshop was conducted on “Advanced Trends In Embedded System Design (Practical Approach)” December 14-15, 2012.

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY:

1. A research paper on ‘Design of FIR Filter by using Sharing Multiplier with Low Delay’ written by assistant professor **K.Sravanthi**, professor **V.V.K.D.V.Prasad**, B.Vasantha Rao, was published in the (IRJES) International Refereed Journal of Engineering and Science, ISSN 2319-183X, 2319-1821 Volume 1, Issue 1 (September 2012), pp.031-038.
2. A research paper on ‘Static Dictionary for Pronunciation Modeling’ written by K.Subramanyam, assistant professor **D.Arun Kumar**, was published in the International Journal of Research in Engineering & Technology, Vol. 2, Issue 2, OCT 2012, pp. 185-189 (ISSN: 2319 – 1163).
3. A research paper on ‘A Multi band Antenna for WLAN Applications’ written by B.Jeevan Kumar, T.V.Rama Krishna and professor **T.Ranga Babu**, was published in the International Journal of Engineering Sciences Research, Vol. 03, Issue 05, September 2012, pp. 783-785, (ISSN: 2230-8504).
4. A research paper on ‘Laser Radar System for the Characterization of Boundary Layer Meteorology Using Modified Wavelet Covariance Transform’ written by P.Ravi Kumar, G.Suresh, Dr.Y.Bhavani Kumar, assistant professor **D.Arun Kumar**, was published in the International Journal of

Electronics and Communication Engineering & Technology, Volume 3, Issue 2, July – September (2012), pp. 474-483 (ISSN: 0976 - 6472).

5. A research paper on 'Performance Evaluation of Dielectric Slab Waveguides' written by B.Alekhyia, T.V.Ramakrishna, professor T.Ranga Babu, was published in A.P. Science Congress - 2012, organized by Andhra Pradesh Academy of Sciences and acharaya Nagarjuna university, During , pp.93, 14-16 November, 2012.
6. A research paper on 'Performance Evaluation of Dielectric Slab Waveguides' written by Ch.Hima bindu, T.V.Ramakrishna, professor T.Ranga Babu, was published in A.P. Science Congress -2012, organized by Andhra Pradesh Academy of Sciences and acharaya Nagarjuna university, During , pp.93, 14-16 November, 2012.

### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. Assistant Professors, P.Sailaja, M.Suresh, A.MuraliKrishna, K.Sravanthi, T.Suneetha, D.Arun Kumar, P.SivaPrasad, Associate professor N.Renuka attended a three day Workshop on 'MATLAB and Simulink for Engineering Education', Math Works India at the Fortune Hotel - Trillion Ballroom, Vijayawada, on 13<sup>th</sup> September 2012.
2. Associate professor P.P.S.Subhashini attended a two day Workshop on 'Artificial Neural Networks for Signal, Image & Video Processing (ANSIVP)' organized by Department of ECE, Abhinav Hi-Tech College of Engg., Hyderabad, 12<sup>th</sup> – 13<sup>th</sup>, September 2012
3. Assistant Professors, T.Suneetha, D.Arun Kumar attended a two day National Workshop on 'Embedded Processors', conducted by JNTU College of Eng., Hyderabad, during 12<sup>th</sup> -14<sup>th</sup>, October, 2012.
4. Assistant Professors, K.Sravanthi, D.Arun Kumar, attended a Two-day National Workshop on 'Embedded Systems & Real Time Operating Systems' organized by GMR INSTITUTE OF TECHNOLOGY GMR Nagar, Rajam, Srikakulam (Dist.) during 16th – 17th November, 2012.
5. Associate professor J.Ravindranadh, Assistant Professors D.Arunkumar, A.Muralikrishna, M.V.S.L.Ramya Sree, attended a One-day National Workshop on 'Lab workstation and EMC/EMI Measurements' organized by PVP Siddhardha Institute of Technology, Vijayawada, on 2<sup>nd</sup> November 2012.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. IV/IV B.Tech Students attended 'An awareness program' conducted by Training and Placement Cell on December 5<sup>th</sup>, 2012.
2. The department of ECE Students attended a Two day training program on 'elevate vocabulary & analytical skills' by Mr. Raghavan G, Director M/s Jaitra Kalike Pvt. Ltd., Bangalore on January 23<sup>rd</sup>, 2012.

### FACULTY ACHIEVEMENTS

1. Sri M.V.S.Prasad, Asst.Prof, Department of ECE has been awarded Ph.D. Degree by SV University, Tirupati, on August 18, 2012 for his thesis entitled "Computational and Experimental studies on Tapered Nylon Rod Antennas".

2. [Dr. M.V.S.Prasad](#), Associate Professor Department of ECE has been promoted as Professor on August 25<sup>th</sup>, 2012.
3. [Sri Ramakrishna](#), Asst.Prof. Dept. of ECE has registered for External Ph.D. under JNT University, Kakinada in the month of August 2012.
4. [Smt P.P.S.Subhashini](#), Associate Prof. Dept. of ECE has registered for External Ph.D. under JNT University, Hyderabad in the month of November 2012.
5. [Smt S.Anuradha](#), Associate Prof. Dept. of ECE has registered for External Ph.D. under JNT University, Hyderabad in the month of November 2012.
6. [A. Sudhakar](#), PSM Satyanarayana, "[Electric Circuits Analysis – I,2E](#)" JNTUK-2012, Published by Tata McGraw-Hill Education Private Limited, ISBN: (13)-978- 1-25-900669-2, August 2012, New Delhi, INDIA.
7. [A. Sudhakar](#), PSM Satyanarayana, "[Networks Analysis, 2E](#)" JNTUK-2012, Published by Tata McGraw-Hill Education Private Limited, ISBN: (13)-978- 1-25-900667-8, August 2012, New Delhi, INDIA.
8. [A. Sudhakar](#), PSM Satyanarayana, "[Electric Circuits, 3E](#)" JNTUH, Published by Tata McGraw-Hill Education Private Limited, ISBN: (13)-978- 1-25-902888-5, September 2012, New Delhi, INDIA.
9. [A. Sudhakar](#), PSM Satyanarayana, "[Electrical Circuits, 3E](#)" JNTUA, Published by Tata McGraw-Hill Education Private Limited, ISBN: (13)-978- 1-25-902889-2, September 2012, New Delhi, INDIA.

## INDUSTRIAL TOURS

1. The Department of Electronics & Communication Engineering has arranged one day visit for II/IV B.Tech (ECE) students to "[All India Radio](#)", Vijayawada on September 7<sup>th</sup>, 2012
2. The Department of Electronics & Communication Engineering has arranged one day tour for III/IV & IV/IV B.Tech (ECE) students to "National Remote Sensing Center", Hyderabad on December 4<sup>th</sup>, 2012.

## PLACEMENT DETAILS

S.No.	Company	Date(s) of Interview	Number of students selected
1	M/s Tata Consultancy Services Ltd., Hyderabad,	26-29 October, 2012	44

## STUDENTS PARTICIPATION

S.No	Name	Regd. No	Event	Organized Institute	Date
1	G.Pavan Kumar	Y9EC832	VIVA VVIT Paper Presentation	VasireddyVenkatadri Institute of Technology, Nambur, Guntur	23-12-2012

2	G.Sundar Rao	Y10EC821	ACUMEN'13 Poster Presentation	VasireddyVenkatadri Institute of Technology, Nambur, Guntur	23-12-2012
3	G.Hari Kishore	Y10EC829	ACUMEN'13 Poster Presentation	VasireddyVenkatadri Institute of Technology, Nambur, Guntur	23-12-2012
4	M.Chaitanya	Y10EC863	Trance – 12 Paper Presentation	SRKR Engineering College, Bhimavaram	21-12-2012 to 22-12- 2012
5	Y.R.SaiTejes hRaju	Y10EC917	YANTRA 12 Paper Presentation	JNTU college of Engg., Pulivendula	21-12-2012 to 22-12- 2012
6	Y.R.SaiTejes hRaju	Y10EC917	Trance – 12 Paper Presentation	SRKR Engineering College, Bhimavaram	21-12-2012 to 22-12- 2012
7	B.Srikanth	Y9 EC 807	EJIVE 2k13	PragathiEngg. College	17-12- 2012
8	G.SaiCharan	Y11EC827	Samyak ' 12 Paper Presentation	KL university, Vaddeswaram	5 -10-2012 to 6-10- 2012
9	V.Bharath	Y11EC912	Samyak ' 12 Paper Presentation	KL university, Vaddeswaram	5 -10-2012 to 6-10- 2012
10	M.SriVidhya	Y11EC866	Samyak'12 Paper Presentation	KL university, Vaddeswaram	5 -10-2012 to 6-10- 2012
11	V.KrishnaGe ethika	Y11EC914	Samyak ' 12 Paper Presentation	KL university, Vaddeswaram	5 -10-2012 to 6-10- 2012
12	A.Nehar	Y11EC803	Samyak ' 12 Paper Presentation	KL university, Vaddeswaram	5 -10-2012 to 6-10- 2012
13	B.Raviteja	Y11EC808	Paper Presentation SCINTHLACE 2k12	JNTUA College of Engineering, Pulivendula	27-9-2012 to 28-10- 2012
14	G.S.Anand	Y11EC826	Paper Presentation SCINTHLACE 2k12	JNTUA College of Engineering, Pulivendula	27 -10-2012 to 28-10-2012
15	G.Sundar Rao	Y10EC821	Poster Samkalp-2012	KallamHaranadharedd y Institute of Technology	15-9- 2012
16	Ch.Mallikarj un	Y10EC814	Poster Samkalp-2012	KallamHaranadharedd y Institute of Technology	15-9- 2012
17	K.V.Avinash	Y10EC803	Samkalp-2012 Paper Presentation	KallamHaranadharedd y Institute of Technology	15-9- 2012

18	G.NagaMow nika	Y10EC827	Thrusang'12 Paper Presentation	KL university, Vaddeswaram	14-9-2012 to 15-9- 2012
19	P.Kezia	Y10EC850	Thrusang'12 Paper Presentation	KL university, Vaddeswaram	14-9-2012 to 15-9- 2012
20	G.Hari Kishore	Y10EC829	Thrusang'12 Paper Presentation	KL university, Vaddeswaram	14-9-2012 to 15-9- 2012
21	B.RaviTeja	Y10EC808	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
22	G.S.Anand	Y10EC826	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
23	D.Sasank	Y10EC815	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
24	K.Naga Praveen	Y10EC837	Paper Presentation I-genesis ' 12	Andhra University of College of Engg	5-9-2012 to 8-9-2012
25	J.Anvesh	Y10EC833	Paper presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
26	I.BajiBabu	Y10EC831	Paper presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
27	Y.N.V.S.V.B haskar	Y11EC919	Xplora Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
28	S.MaruthiSri nivas	Y10EC896	Xplora Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
29	J.Anvesh	Y10EC833	Posters	Andhra University of College of Engg	5-9-2012 to 8-9-2012
30	I.BajiBabu	Y10EC831	Posters	Andhra University of College of Engg	5-9-2012 to 8-9-2012
31	SK.Karimoo n	Y10EC895	Posters	Andhra University of College of Engg	5-9-2012 to 8-9-2012
32	T.LakshmiPri ya	Y10EC900	Posters	Andhra University of College of Engg	5-9-2012 to 8-9-2012
33	G.Harikishor e	Y10EC829	Posters I-genesis	Andhra University of College of Engg	5-9-2012 to 8-9-2012
34	A.V.Sai Krishna	Y10EC801	Poster I-genesis ' 12	Andhra University of College of Engg	5-9-2012 to 8-9-2012
35	K.V.V.S.R.B haskar	Y10EC839	Posters	Andhra University of College of Engg	5-9-2012 to 8-9-2012
37	Y.V.S.Bhage erath	Y10EC916	Xplora Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012
38	Y.V.S.Bhage erath	Y10EC916	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8-9-2012

39	S.MaruthiSrinivas	Y10EC896	I-genesis ' 12 Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
40	Y.N.V.S.V.B haskar	Y11EC919	I-GENESIS Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
41	B.RaviTeja	Y10EC808	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
42	G.S.Anand	Y10EC826	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
43	D.Sasank	Y10EC815	I-genesis Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
44	K.Naga Praveen	Y10EC837	Paper Presentation I-genesis ' 12	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
45	J.Anvesh	Y10EC833	Paper presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
46	I.BajiBabu	Y10EC831	Paper presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
47	Y.N.V.S.V.B haskar	Y11EC919	Xplora Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
48	S.MaruthiSrinivas	Y10EC896	Xplora Paper Presentation	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
49	J.Anvesh	Y10EC833	Posters	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
50	I.BajiBabu	Y10EC831	Posters	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
51	SK.Karimoon	Y10EC895	Posters	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
52	T.LakshmiPriya	Y10EC900	Posters	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
53	G.Harikishore	Y10EC829	Posters I-genesis	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
54	A.V.Sai Krishna	Y10EC801	Poster I-genesis ' 12	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
55	K.V.V.S.R.B haskar	Y10EC839	Posters	Andhra University of College of Engg	5-9-2012 to 8- 9-2012
56	K.Sai Surya	Y10EC843	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012
57	D.V.N.J.Ganesh	Y10EC819	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012
58	K.RaviTeja	Y10EC850	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012

59	K.Sai Surya	Y10EC843	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012
60	D.V.N.J.Gan esh	Y10EC819	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012
61	K.RaviTeja	Y10EC850	Prayag '12 Paper Presentation	KL university, Vaddeswaram	24-8- 2012
62	M.Deepthi	Y10EC857	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
63	LeelaSaiRam ya	Y10EC802	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
64	J.Swathi	Y10EC835	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
65	K.S.K.Sahith i	Y11EC846	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
66	K.L.Manasa	Y11EC832	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
67	SK.Karimoo n	Y10EC895	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
68	M.Deepthi	Y10EC857	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
69	LeelaSaiRam ya	Y10EC802	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012
70	J.Swathi	Y10EC835	Tantrik '12 Paper Presentation	KL university, Vaddeswaram	16-8-2012 to 19-8- 2012

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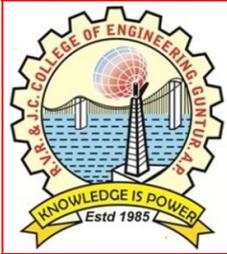
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**RVR & JC COLLEGE OF ENGINEERING**

**(Autonomous)**

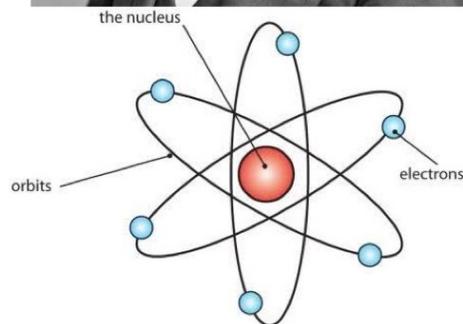
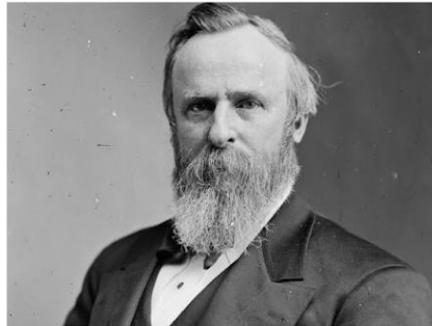
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# **IMPULSE**

**(A HALF YEARLY ECE NEWS LETTER)**

**July – December 2013, Volume 2, Issue 2**

## **RUTHERFORD (1912)**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

## ABOUT ECE DEPARTMENT

The department of ECE came into existence in 1985 immediate when the institute was founded. It was started with an intake of 40 which was subsequently raised to 180 over a period of time. M.Tech course approved by AICTE in communication engineering and signal processing was started in 2010. The department is presently offering 4years B.Tech degree program in ECE and 2 years M.Tech degree program in communication engineering and signal processing.

### **VISION:**

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### **MISSION:**

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

### **Program Educational Objectives (PEO's):**

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

It gives us an immense pleasure to present the current issue of the newsletter “IMPULSE” from the Department of Electronics and Communication Engineering. Globalization and increasing diversity in man’s needs has generated an enhanced demand for competitive skills and our focus is to train students to become autonomous learners, to provide students with an education that allows them to recognize and realize their ‘dreams’ and to ignite the passion to excel. Students will be given an environment wherein their attributes and strenghts are given a boost, their creativity developed and spontaneously nurtured.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD :**

*“Success and failures are just stepping stones in education, in the end knowledge stands as prime, leaving everything else immaterial”*

I am very pleased to present the newsletter “IMPULSE” of Electronics and Communication Engineering Department. Within the pages everyone will find news related to diverse activities of the department association and contributions from the faculty members and Students. I hope everyone will find this issue as exiting and interesting.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total	Total	% Pass
IV/IV B.Tech	II Sem	129	128	99.22
III/IV B.Tech	II Sem	140	129	92.17
II/IV B.Tech	II Sem	143	114	79.72
I/IV B.Tech	II Sem	179	166	92.73
I/II M.Tech	I Sem	18	18	100

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. Three day National Workshop on “**Signal and Image Processing using LABVIEW [SIPLV-2013]**” during 11<sup>th</sup> – 13<sup>th</sup> November,2013.



2. An Essay Writing Competition was conducted on “**What are your Social Responsibilities as an Engineer**” on 10<sup>th</sup> September, 2013 under ISTE Students Chapter.
3. A Project Exhibition “**Green Innovator-2013**” was conducted on 13<sup>th</sup> September,2013 under ISTE Student Chapter.
4. A Poster Design Contest “**Green Innovator-2013**” was conducted on “**Green Innovator-2013**” on 13<sup>th</sup> September,2013 under ISTE Student Chapter.

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. **Dr. M.V.S.Prasad**, Professor, **Dr. R.V.S.Satyanarayana**, **P.Sri Lakshmi**, “**Computational Studies on Tapered Polyethylene Rod antennas**”, International journal of Electronics and Communication Engineering, (IJECE), pp:143-152, Vol.6(2), July 2013, ISSN.0974-2166.
2. **Dr. V.V.K.D.V.Prasad**, Professor, **T.Swarna Latha**, **M.Suresh**, Assistant Professor “**Denoising of Biological Signals using Wavelets**”, International journal of Current Engineering and Technology, pp: 863-866, Vol.3(3), August 2013, ISSN.2277-4106.
3. **Dr. V.V.K.D.V.Prasad**, Professor, **M.Suresh**, **A.Murali Krishna**, Assistant Professors “**A New Wavelet Packet Based Method for Denoising of Biological Signals**”, International journal of Research in Computer and Communication Technology, pp:1056-1062, Vol.2, Issue 10, October 2013, ISSN.2278-5841.

4. **P.Siva Prasad, S.Ramesh Babu** Assistant Professors, **Dr. T.Ranga Babu**, Professor, “**Lowpower CMOS Comparator for Sigma Delta Analog to Digital Converters**”, International Conference on computing (NECICC-2k13) at Narasaraopet Engineering College, Narasaraopet, pp.176-178, 12<sup>th</sup> – 13<sup>th</sup>, July 2013.
5. **P.Siva Prasad**, Assistant Professor, **Dr.T.Ranga Babu**, Professor “**Design of Travelling Wave Slotted Linear Array Antenna at Ku Band for Radar Application** ” International Conference in innovations of Electronics and Communication Engineering (ICIECE-2013), organized by Guru Nanak Institutions, Hyderabad, pp.1327, 9<sup>th</sup> – 10<sup>th</sup>, August 2013.
6. **Dr. A.Sudhakar**, Professor, C.Subba Rao and A.V.Yashwanth “**Design of Linear Biconical Antenna Array for the Generation of Trapezoidal Pattern**”, Progress in Electromagnetics Research Symposium Proceedings, Stockholm, Sweden, pp.39-42, 12<sup>th</sup> – 15<sup>th</sup>, August, 2013.
7. **Dr. A.Sudhakar**, Professor, D.Madhavi, Assistant Professor “**Design and Simulation of Optimized Ultra-wideband Saddle Antenna**”, Progress in Electromagnetics Research Symposium Proceedings, Stockholm, Sweden, pp.739-743, 12<sup>th</sup> – 15<sup>th</sup>, August, 2013.
8. **P.P.S.Subhashini**, Associate Professor, Dr. M.Satya Sai Ram, Dr. D.Srinivasarao, “**Handwritten Digit Recognition with MLP Neural Network by Using Back Propagation Training with Tunneling Algorithm**”, International Conference on Navigational Systems & Signal Processing Applications, organized by University College of Engineering & Technology, Acharya Nagarjuna University, Guntur, pp. 209-216, 13<sup>th</sup> – 14<sup>th</sup>, December 2013.
9. **K.Sravanthi**, Assistant Professor, Dr. V.V.K.D.V.Prasad, B.Veera Vasantha Rao, Assistant Professor, “ **Development of an algorithm for 8 – bit WTM**”, International Conference on Navigational Systems & Signal Processing Applications, organized by University College of Engineering & Technology, Acharya Nagarjuna University, Guntur, pp. 230-234, 13<sup>th</sup> – 14<sup>th</sup>, December 2013.
10. **N.Renuka**, Associate Professor, **A.Murali Krishna**, Assistant Professor, “**PAPR reduction & Channel estimation in MIMO\_OFDM Systems using Adaptive active constellation extension & DWT**” International Conference on Navigational Systems & Signal Processing Applications, organized by University College of Engineering & Technology, Acharya Nagarjuna University, Guntur, pp.248-251,13<sup>th</sup> – 14<sup>th</sup>, December 2013.
11. **D.Jagadeesh**, Assistant Professor, Dr. K.Gauthami “**A Video watermarking technique using Discrete Cosine Transform**” International Conference on Navigational Systems & Signal Processing Applications, organized by University College of Engineering & Technology, Acharya Nagarjuna University, Guntur, pp.423-427, 13<sup>th</sup> – 14<sup>th</sup>, December 2013.

#### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. **P.P.S.Subhashini**, Associate Professor **P.Sailaja, K.Sravanthi**, Assistant Professors attended a Two day National Workshop on “ **System Design using Xilinx FPGAS**”, organized by department of ECE, Vignan University, Vadlamudi, Tenali, during July 9<sup>th</sup> – 10<sup>th</sup>, 2013.
2. **K.Upendra Chowdary**, Assistant Professor, attended a National Level Workshop on “ **Advances in Signal Processing** ”(NWSAP-13), organized by department of ECE, Andhra University, Visakhapatnam during August 30<sup>th</sup> – 31<sup>th</sup>, 2013.
3. **Dr. M.V.S.Prasad**, Professor, **S.Ramesh Babu, P.Siva Prasad**, Assistant Professor attended AICTE sponsored National workshop on “**Research Antennas in Global Positing Systems(GPS)**” organized by department of ECE, Narasaraopet Engineering, Narasaraopet, September 13<sup>th</sup> – 14<sup>th</sup>, 2013.

4. **Dr. T.Ranga Babu**, Professor, attended a workshop “**User conference on Effective Utilisation of NPTEL**” organized by department of ECE, IIT Madras, on September 20<sup>th</sup>, 2013.
5. **N.Renuka, P.P.S.Subhasini**, Associate Professors, **M.Suresh, P.Sailaja, A.Murali Krishna, B.Lokeshwar**, Assistant Professor attended AICTE Sponsored Two day National Seminar on “**Nanotechnology – a Fuel for Chemical Industry**” (NTFC-2013) organized by department of Chemical Engineering, during September 20<sup>th</sup> – 21<sup>th</sup>, 2013.
6. **Dr. T.Ranga Babu**, Professor, attended a National Seminar on National Seminar on “**Mobile Computing and Mobile Application Development** ” organized by department of CSE, SRKR Engineering College, Bhimavaram, on November 7<sup>th</sup>, 2013.
7. **M.Suresh**, Assistant Professor, attended a SDP on “**Recent Advances In Microwave Engineering And Its Application**”, organized by P.V.P.Siddhartha Institute of Technology ,Kanuru, Vijayawada during October 28<sup>th</sup> to November 9<sup>th</sup> , 2013.
8. **P.V.Krishna Kanth**, Assistant Professor, attended a SDP on “**Recent Advances In Microwave Engineering And Its Application**”, organized by P.V.P.Siddhartha Institute Of Technology ,Kanuru, Vijayawada during October 28<sup>th</sup> to November 9<sup>th</sup> , 2013.
9. **M.Suresh, U.Ramakrishna, P.Sailaja, P.Siva Prasad, A.Murali Krishna, S.Ramesh Babu, T.Suneetha, K.Upendra Chowdary, K.Sravanthi, B.Lokeshwar, P.V.Krishna Kanth, K.Anil Kumar, K.Ashok Kumar**, Assistant Professors, attended a Three day National Workshop on “**Signal and Image Processing using LabVIEW**” [SIPLV-2013] on 11<sup>th</sup> – 13<sup>th</sup> November, 2013.
10. **Dr. M.V.S.Prasad**, Professor, **P.Sailaja, K.Upendra Chowdary**, Assistant Professors attended a National Level Workshop on “**Model Based Design for Power Electronics and Embedded Systems**”, organized by department of EEE, during December 12<sup>th</sup> – 13<sup>th</sup>, 2013.
11. **G.Sudhavani**, Associate Professor, **T.Suneetha**, Assistant Professor attended AICTE Sponsored Two day National Seminar on “**Recent trends and developments in the field of Computer Vision**” organized by V.R.Siddhartha Engineering College, Vijayawada during December 20<sup>th</sup> – 21<sup>st</sup>, 2013.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. IV/IV B.Tech Students attended a one week CRT program (Module I) related to **Reasoning & aptitude and Softskills** conducted by M/s Triumphant Training from 15-07-2013 to 21-7-2013.
2. IV/IV B.Tech Students attended a Three day CRT program (Module II) related to **Reasoning & aptitude and Softskills** conducted by M/s Triumphant Training from 11-12-2013 to 13-12-2013.
3. IV/IV B.Tech Students attended training program on **Employability** given by Mr.Richardking Chatragadda on September 9<sup>th</sup>, 2013.

### FACULTY ACHIEVEMENTS

1. **Dr. A. Sudhakar** as Head of the Institution, Received the Prestigious Indira Gandhi National Service Scheme Award 2013-14 from the President of India for the NSS Unit of RVR & JC College of Engineering.

## FACULTY CONTRIBUTIONS

1. **Dr. M.V.S.Prasad**, Professor, delivered a lecture on “Dielectric Rod Antennas”, organized by Department of Electronics & Communication Engineering, at KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, 20<sup>th</sup> September 2013.
2. **Dr. M.V.S.Prasad**, Professor, delivered a lecture on “Antennas for Millimeter Wave Applications” organized by Department of Electronics & Communications Engineering, at Chalapathi Institute of Engineering and Technology, LAM, Guntur, 11<sup>th</sup> December, 2013.

## INDUSTRIAL VISITS

1. **III B.Tech. ECE** students visited “**National Atmospheric Research Laboratory (NARL)**” at Tirupathi on 27<sup>th</sup> December, 2013.

The following faculty members accompanied the students:

**Mr. A.Murali Krishna**, Assistant Professor

**Ms.T.Suneetha**, Assistant Professor

## PLACEMENTS

S.No	Company Name	No. of Students Selected
1	TCS Limited, HYD, 26th To 28th Sept. 2013	35
2	Infosys, Bangalore, 19th & 20th Dec., 2013	37
3	NTT Data Global Delivery Services, Hyderabad, 23rd & 28th December, 2013	3

## STUDENTS PARTICIPATION

S.No	Name	Regd. No	Event	Organized Institute	Date
1	K.Pavan Kumar	Y11EC889	Ekathra'13	GVP College of Engineering	12-12-2013.
2	G.Harikishore	Y10EC829	Acumen-13	Vasavi College Of Engineering	10-12-2013
3	G.Sundar Rao	Y10EC821	Acumen-13	Vasavi College Of Engineering	10-12-2013
4	M.Harish	Y10EC859	Acumen-13	Vasavi College Of Engineering	10-12-2013

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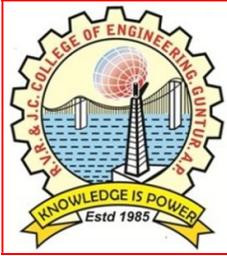
**Dr.MVS Prasad, Professor of ECE**

**J.Ravindranadh, Assoc. Prof of ECE**

**P.Sivaprasad, Asst. Prof of ECE**

**S.Ramesh Babu, Asst. Prof of ECE**

**K.Upendra Chowdary, Asst. Prof of ECE**



**RVR & JC COLLEGE OF ENGINEERING**

**(Autonomous)**

**Chowdavaram, Guntur-522019**

# **IMPULSE**

**(A HALF YEARLY ECE NEWS LETTER)**

**July – December 2014, Volume 3, Issue 2**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

## ABOUT ECE DEPARTMENT

The department of ECE came into existence in 1985 immediate when the institute was founded. It was started with an intake of 40 which was subsequently raised to 180 over a period of time. M.Tech course approved by AICTE in communication engineering and signal processing was started in 2010. The department is presently offering 4years B.Tech degree program in ECE and 2 years M.Tech degree program in communication engineering and signal processing.

### **VISION:**

The Department of ECE endeavours to Develop High Quality, Technically Competent and Socially Responsible Engineers.

### **MISSION:**

To Bring out Competent Electronics & Communication Engineers, Department strives to achieve excellence in imparting technical, Social skills and attitudes for continuous learning and to mould the students capable of providing leadership for the betterment of the society and country.

### **Program Educational Objectives (PEO's):**

The following are the Programme Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Programme.

- PEO1 To acquire knowledge in applied and basic engineering sciences for understanding engineering principles which are necessary to formulate and solve problems related to Electronics and Communication Engineering.
- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

It gives us an immense pleasure to present the current issue of the newsletter “IMPULSE” from the Department of Electronics and Communication Engineering. Globalization and increasing diversity in man’s needs has generated an enhanced demand for competitive skills and our focus is to train students to become autonomous learners, to provide students with an education that allows them to recognize and realize their ‘dreams’ and to ignite the passion to excel. Students will be given an environment wherein their attributes and strenghts are given a boost, their creativity developed and spontaneously nurtured.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD :**

*“Success and failures are just stepping stones in education, in the end knowledge stands as prime, leaving everything else immaterial”*

I am very pleased to present the newsletter “IMPULSE” of Electronics and Communication Engineering Department. Within the pages everyone will find news related to diverse activities of the department association and contributions from the faculty members and Students. I hope everyone will find this issue as exiting and interesting.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total Appeared	Total Passed	% Pass
IV/IV B.Tech	II Sem	143	140	97.9
	I Sem	143	136	95.1
III/IV B.Tech	II Sem	206	170	82.52
	I Sem	207	177	85.5
II/IV B.Tech	II Sem	212	168	79.24
	I Sem	209	149	71.29
I/IV B.Tech	I Sem	177	160	90.39

## WORKSHOPS, GUEST LECTURES & SEMINARS CONDUCTED :

1. A guest lecture was conducted on **“Industry Trends in Processor Design”** on 28<sup>th</sup> July, 2014.

**Resource Person: Sri P.Madhusodhan Srinivas,**  
**Senior Engineer, Managing Director,**  
**Intel Corporation, California, USA.**



2. A guest lecture was conducted on **“Novel Optimization Algorithms & Engineering Applications”** on 04<sup>th</sup> August, 2014 under IETE Students’ Forum.

**Resource Person: Sri Mallipreddi Rammohan,**  
**Assistant Professor, School of Electronics, Kyungpook,**  
**National University, South Korea.**

**PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :**

1. A research paper on **“Performance Analysis of parallel Interference Cancellation RAKE receiver for wide band CDMA Networks”** written by **Ms P.P.S.Subhashini**, Associate Professor **Ms D.Niharika**, was published in the *International Journal of Research in Electronics and Communication Engineering*, (IJRECE) Vol.2, Issue 5, pp.294 – 299, ISSN:2321-5593, July-August 2014.
2. A research paper on **“Modified Approach for VSS NLMS Algorithm for Echo Cancellation in Teleconference System”** written by **Ms T.Suneetha**, Assistant Professor, **Mr A.Hareesh and Dr. G.Sudhavani**, Associate Professor, was published in the *International Journal of Computer Applications*, Vol.99, Issue 12, pp.23 - 26, ISBN:973-93-80883-42-4, August 2014.
3. A research paper on **“Tri-Band Planer Maropole antenna with compact Radiator for WLAN/Wi-MAX Applications”** written by **Mr.S.Ramkumar, Dr. M.V.S.Prasad**, Professor and **Ms. K.Prasanna** was published in the *International Journal of Systems and Technologies (IJST)*, Vol.7, Issue 2, pp.34 - 39, ISSN: 0974-2107, September 2014.
4. A research paper on **“Computational Studies on Rectangular Micro strip Patch Antenna”** written by **Dr. M.V.S.Prasad**, Professor, **Mr K.Naga Raju**, was published in the *International Journal of Electronics Communication and Computer Engineering (IJECCCE)*, Vol.5, Issue 5, pp.1116-1119, ISSN:2278-4209, September 2014.
5. A research paper on **“VHDL Implementation of Alamouti Space Time Block Coded (STBC) MIMO encoder and decoder on FPGA”** written by **B.Lokeshwar**, Assistant Professor, **G.Kalyan, M.Gurunanda Babu**, was published in the *International Journal of Science, Engineering and Technology Research (IJSETR)*, Vol.3, Issue 10, pp.2764.-2767, ISSN: 2278 – 7798, October 2014.
6. **Mr. K.Upendra Chowdari, Mr. K.Ashok Kumar**, Assistant Professors presented a paper on **“The LTE Network Architecture”** in the *National Conference on RF Wireless Communications and Signal Processing NCRFWCSP 2014*, conducted by Bapatla Engineering College, Bapatla, during 17<sup>th</sup> –18<sup>th</sup>, November, 2014.
7. **Mr. S.Ramesh Babu, Mr. K.Anil Kumar**, Assistant Professors presented a paper on **“Design of Adaptive Median Filter for image Impulse Noise Supression”** in the *National Conference on RF Wireless Communications and Signal Processing NCRFWCSP 2014*, conducted by Bapatla Engineering College, Bapatla, during 17<sup>th</sup> –18<sup>th</sup>, November, 2014.

**WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY**

1. **Ms N.Renuka**, Associate Professor, **Mr A.Murali Krishna**, Assistant Professor attended a two day National workshop on **“Signal Processing and Wireless Communication”**, organized by the Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla, during 25<sup>th</sup> – 26<sup>th</sup> July, 2014.
2. **K.Upendra Chowdary**, Assistant Professor attended a Two day Workshop on **“HAMFEST INDIA – 2014”**, organized by the Department of Electronics and Communication Engineering, Muffakham Jah College of Engineering and Technology, Hyderabad, on 8<sup>th</sup> - 9<sup>th</sup> October, 2014.

3. **Ms N.Renuka, Ms P.P.S.Subhashini**, Associate Professors, **Mr A.Murali Krishna**, Assistant Professor attended a Two day National level workshop on “**Recent Trends in MEMS for Biomedical and Weather monitoring Applications**”, organized by the Department of Electronics and Communication Engineering, Lakireddy Balireddy College of Engineering, Mylavaram, during 17<sup>th</sup> – 18<sup>th</sup> October, 2014.
4. **Dr. G.Sudhavani**, Professor, **Mr A.Murali Krishna, Ms T.Suneetha, Ms K.Sravanthi, Smt M.Sunitha**, Assistant Professors attended a Two day National Workshop on “**Awareness of RF Simulation Tools, RF and Microwave Research Group**”, organized by the Department of Electronics and Communication Engineering, K.L University, Vaddeswaram, during 31<sup>st</sup> October 2014 to 1<sup>st</sup> November 2014.
5. **Dr. T.Ranga Babu**, Professor & HOD attended a Two day Workshop on “**Initiatives for Quality Improvement in Engineering Education**”, organized by the SVU College of Engineering, Tirupati, on 15<sup>th</sup> - 16<sup>th</sup> November, 2014.
6. **U.Ramakrishna, S.Ramesh Babu, P.Siva Prasad**, Assistant Professors attended a Two day Workshop on “**WSNHEM-14**”, organized by the Department of Electronics and Communication Engineering, GMR Institute of Technology, Rajam, on 14<sup>th</sup> - 15<sup>th</sup> November, 2014.
7. **Dr. M.V.S.Prasad**, Professor, M.Suresh, Assistant Professor, attended a Two day Workshop on “**Electronic Intelligence Systems ELINT**”, organized by the Department of Electronics and Communication Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, on 12<sup>th</sup> - 13<sup>th</sup> December, 2014.
8. **B.Lokeshwar**, Assistant Professor, attended a One week Faculty Development Programme on “**Recent Trends in Signals & Systems**”, organized by the Department of Electronics and Communication Engineering, Lakkireddy Balerreddy College of Engineering, Mylavaram, during 22<sup>nd</sup> – 27<sup>th</sup> December 2014.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. IV/IV B.Tech Students attended training program on Employability Skills and technology Expectations conducted by M/s TCS, Hyderabad on 11<sup>th</sup> July, 2014.
2. IV/IV B.Tech Students attended training program on Campus Recruitment Training conducted by M/s Triumphant Training Solutions, Hyderabad and M/s Seventh Sense, Bangalore on 14<sup>th</sup> to 19<sup>th</sup> July, 2014.
3. III/IV B.Tech Students attended training program on Orientation on Introduction Aptitude and Importance conducted by M/s Triumphant Training Solutions, Hyderabad, on 30<sup>th</sup> July, 2014.
4. IV/IV B.Tech Students attended training program on Orientation on Mock Interviews conducted by M/s Seventh Sense Talent Solutions, Bangalore, on 16<sup>th</sup> and 17<sup>th</sup> August, 2014.
5. III/IV and IV/IV B.Tech Students attended training program on Orientation on CRT Refresher Programme conducted by M/s Triumphant Training Solutions, Hyderabad and M/s Seventh Sense, Bangalore on 6<sup>th</sup> November, 2014.
6. II/IV B.Tech Students attended training program on Orientation on Career and Goal Setting conducted by M/s M/s Conduira Education & Training Services on 25<sup>th</sup> November, 2014.

7. I/IV B.Tech Students attended training program on Importance and inevitability of Communication Skills conducted by , M/s TCS, Hyderabad on 6<sup>th</sup> December 2014.

## FACULTY ACHIEVEMENTS

1. Dr.A.Sudhakar , Principal received Prathibha Puraskar from TR Mahesh Charitable Trust, Guntur, for services rendered in the field of Higher Education, Andhra Pradesh on 19th July, 2014.



2. Dr.A.Sudhakar, Principal received Certificate of Excellence for outstanding services, achievements, and contributions to the field of Electronics and Communication Engineering by the IETE Vijayawada centre on the occasion of IETE Foundation Day on 2nd Nov,2014.



3. Ms. T.Suneetha, Asst. Prof . Enrolled for Ph D programme with ANU, Guntur in October, 2014. Her topic of research is **Antennas**.
4. Mr. K.Upendra Chowdary, Asst. Prof. Enrolled for Ph D programme with JNTU,Kakinada, in July, 2014. His topic of research is **PAPR and Channel estimation Techniques to improve broad band MIMO-OFDM for LTE Systems**.

## BOOKS PUBLISHED BY FACULTY

1. **Dr. A.Sudhakar, Shyammohan Spalli**, "Electrical Circuit Analysis – I Third Edition", JNTU, Kakinada, published by McGraw Hill Education (India) Private Limited, December 2014, India, ISBN (13): 978-93-39-21940-6.
2. **Dr. A.Sudhaka, Shyammohan Spalli**, "Network Analysis, Third Edition", JNTU, Kakinada, published by McGraw Hill Education (India) Private Limited, December 2014, India, ISBN(13): 978-3-39-21939-0.

## PLACEMENT DETAILS

S.No.	Company	Date(s) of Interview	Number of students selected
1	TCS Limited HYD	17 <sup>th</sup> & 20 <sup>th</sup> – 22 <sup>nd</sup> Sept. 2014	49
2	NTT Data Global Delivery Services Hyderabad	10 <sup>th</sup> & 14 to 15 <sup>th</sup> November, 2014	5
3	Polaries	07 <sup>th</sup> & 8 <sup>th</sup> , December, 2014	2
4	Tech Mahendra,	9 <sup>th</sup> December 2014	4
5	Mphasis, Pune,	14.12.2014	1

EDITORIAL BOARD

## Chief Editor

Dr.T.Ranga Babu, Prof. &amp; Head, ECE

## Associate Editors

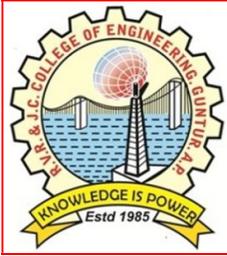
Dr.MVS Prasad, Professor of ECE

J.Ravindranadh, Assoc. Prof of ECE

U.Ramakrishna, Asst. Prof, ECE

P.Sivaprasad, Asst. Prof of ECE

M.Suneetha, Asst. Prof of ECE



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**July – December 2015, Volume 4, Issue 2**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

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- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
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**MESSAGE FROM PRINCIPAL :**

At the outset, I convey my good wishes to Department of ECE, for their endeavour to publish a newsletter with a commitment to offering readers a mix of newsworthy and thought provoking articles. I am sure the newsletter shall ensure the Institution commitment to open discourse and would be a snapshot of the various activities and achievements made by the department. The newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. I am confident that this newsletter will give impetus to research culture amongst the students with emphasis on entrepreneurship and maintain the tradition of excellence.

All credits to the dedicated staff and hope the team sets benchmark for future excellence.



**Dr.A.Sudhakar,  
Professor of ECE &  
Principal**

**MESSAGE FROM HOD :**

It is a matter of Honour that our department is publishing a newsletter. The idea of updating the faculty and students with the current affairs of the department is creditable. It is glad to see the teacher-student community of our department strive to reach greater altitudes. It gives me immense Pride to know that our students Possess true potential and I am hopeful that the achievements of the students will also inspire other students to excel in their lives, and for that they need to have a vision in life and the determination to achieve it.

Besides they must be resolutely courageous in order to achieve their goal. An excellent job has been done by the department Editorial board in planning the newsletter and publishing it.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total appeared	Total Passed	% Pass
IV/IV B.Tech	I Sem	207	188	90.82
III/IV B.Tech	I Sem	212	177	83.49
II/IV B.Tech	I Sem	209	149	71.29
I/IV B.Tech	II Sem	176	153	86.93
	I Sem	177	160	90.40

## WORKSHOPS, GUEST LECTURES &amp; SEMINARS CONDUCTED :

1. A guest lecture was conducted on “**Embedded System**” on 8<sup>th</sup> December, 2015.  
**Resource Person: Mr. Muhammed Saleem,**  
**Application Engineer, Edgate Technology Pvt. Ltd, Bangalore.**
2. A guest lecture was conducted on “**Nano Technology and its Applications**” on 10<sup>th</sup> October, 2015.  
**Resource Person: Dr. V.N.Mani,**  
**Scientist – E, C-MET, Hyderabad.**

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. **Kama Ramudu, Dr. T.Ranga Babu,** Professor, “**Layers and Dark Sand Dunes Segmentation of Mars Satellite Imagery using Level Set Model**” IETE Journal of Education, Vol.5, Issue 2, pp.59-67, DOI: 10.1080/09747338.2015.1083407, October 2015.
2. **K.Baby Swapna,** Asst.Professor, **P.P.S.Subhashini, Associate** Professor, “**An Improved Audio Steganography Based on DWT and Direct Sequence Spread Spectrum**” International Journal and Magazine of Engineering Technology, Management and Research, Vol.2, Issue 8, pp: 1436-1441, ISSN: 2348-4845, August 2015.
3. **B.Sai Mounika,** Asst.Professor, **Dr. T.Ranga Babu,** Professor, “**A Roust and Efficient Image Cryptography by using Private Key Matrices and Logical Scrambling**” International Journal and Magazine of Engineering, Technology, Management and Research, Vol.2, Issue 8, pp: 1431-1435,ISSN:2348-4845, August 2015
4. **G.Mahesh, T.Sai Ram Vamsi,** “**Implementation of staircase Robot using DTMF Technology**”, a National Level Conference VSPICE-2K 15’ conducted by JNTU, Kakinada, supported by IEEE Vizag subway, during 6 -7 November 2015.

## WORKSHOPS/SEMINARS/FDP’s ATTENDED BY THE FACULTY

1. **P.Vamsi Krishna,** Assistant Professor, **M.V.S.Prasad,** Professor, **N.Renuka,** Associate Professor **T.Suneetha,** Assistant Professor attended a Workshop on “**Basic Linux System Administration**” organized by VR Siddhartha Engg. College, Vijayawada, during 12-13 Dec. 2015.

2. **S.Sravan Kumar**, Assistant Professor **M.V.S.Prasad**, Professor attended a one day National Workshop on “**Applications of Computational Techniques in Engineering**” organized by RVR & JCCE, Guntur, on 6 Nov. 2015.
3. **M.V.S.Prasad**, Professor attended a one day Workshop on “**System Development using Microcontrollers**” organized by VR Siddhartha Engineering College, Vijayawada, on 30 Oct. 2015.
4. **S.Ramesh Babu, U.Ramakrishna**, Assistant Professors, attended a two day National workshop on “**Intelligent Control System Design using Matlab**” organized by VR Sidharatha Engineering College, Vijayawada, during 9 – 10 Oct. 2015.
5. **M.Suresh**, Assistant Professor attended a two day workshop on “**Analog & Digital CMOS IC Design Flow using Menter Graphics EDA Tools**” organized by Vishnu Engineering College for Women, Bheemavaram, during 5 – 6 Oct. 2015.
6. **K.Upendra Chowdary**, Assistant Professor attended a five day Workshop on “**Continuing Education and Training Programme on Advances in Wireless Communication Networking (CETP-AWCN)**” organized by NIT, Warangal, during 29 Sept. - 3 Oct. 2015.
7. **U.Ramakrishna, K.Sravanthi**, Assistant Professors attended a one day Workshop on “**Real time Signal & Image Processing using Xilinx Vivado and Zynq-7000 Soc**” organized by Sri Institute of Technology, Vijayawada, on 11 Sept. 2015.
8. **T.Suneetha, K.Upendra Chowdary**, Assistant Professors attended a one day IEEE National Workshop on “**Understanding 5G: Perspectives on Future Technological Advancements in Wireless Communications**” organized by ECE dept. Pottisriramulu Chalvadi Mallikarjuna Rao College of Engg, & Technology, Vijayawada, on 8 Aug. 2015.
9. **G.Sudhavani**, Professor Associate Professor **N.Renuka, T.Suneetha**, Asst.Professor attended a one day National Workshop on “**Intelligent Systems**” organized by Dept. of ECE, Mech Engineering, KL University, on 12 Sept. 2015.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. **IV/IV B.Tech** Students attended training program on Employability Skills and technology Expectations conducted by M/s TCS, Hyderabad on 04<sup>th</sup> July, 2015.
2. **IV/IV B.Tech** Students attended training program on Campus Recruitment Training conducted by M/s Triumphant Training Solutions, Hyderabad and M/s Seventh Sense, Bangalore on 01<sup>st</sup> to 07<sup>th</sup> July, 2015.
3. **IV/IV B.Tech** Students attended CRT training program conducted by M/s Triumphant Training Solutions, Hyderabad, on 08<sup>th</sup> July, 2015 to 13<sup>th</sup> July 2015.
4. **IV/IV B.Tech** Students attended CRT training program conducted by M/s Triumphant Training Solutions, Hyderabad, on 03<sup>rd</sup> September, 2015 to 04<sup>th</sup> September 2015.

### PLACEMENT DETAILS

S.No	Company Name	No. of Students Placed
1	TCS Limited HYD. 10 <sup>th</sup> -13 <sup>th</sup> ,September, 2015	90
2	NTT Data Global Delivery Services,19 <sup>th</sup> , 25 <sup>th</sup> & 26 <sup>th</sup> Sept, 2015	3
3	ZenQ, 06 <sup>th</sup> & 7 <sup>th</sup> October, 2015	3

4	Tech Mahindra, Hyderabad 13 <sup>th</sup> & 14 <sup>th</sup> October, 2015	2
5	Caprus IT Hyderabad 15 <sup>th</sup> Oct, 2015	1
6	Polaris, Chennai 16 <sup>th</sup> & 17 <sup>th</sup> Oct, 2015	4
7	InRythm, Chennai, 07 <sup>th</sup> Nov., 2015	0
8	Mphasis, 15&16 <sup>th</sup> December, 2015	1

## STUDENTS PARTICIPATION

S.No	Name	Regd. No	Event	Organized Institute	Date
1	B.Nikeshsaisri ram	Y13EC807	Paper presentation	NRI institute of technology ,Guntur	29-12-2015 to 30-12-2015
2	B.Nikeshsaisri ram	Y13 EC 807	Paper presentation	R.V.R& J.C COLLEGE ENGINEERING	15-9-2015 to 16-9-2015
3	A.Chinnikrishn a	Y14EC801	Paper presentation(ja mmers)	R.V.R& J.C COLLEGE ENGINEERING	15-9-2015 to 16-9-2015
4	G. Yaswanthsriniv aschowdary	Y14EC850	Paper presentation(ja mmers)	R.V.R& J.C COLLEGE ENGINEERING	15-9-2015 to 16-9-2015
5	K.S.V.Raghave ndra	Y13EC954	Tech-club	R.V.R& J.C COLLEGE ENGINEERIN	14-9-2016
6	K. Naga deepika	Y13EC883	Workshop	KL UNIVERSITY	28-8-2015 to 29-8-2015
7	K.V.N. Swetha	Y13EC881	Workshop	KL UNIVERSITY	28-8-2015 to 29-8-2015
8	N.Spandanadevi	Y13EC931	Workshop	KL UNIVERSITY	28-8-2015 to 29-8-2015

### EDITORIAL BOARD

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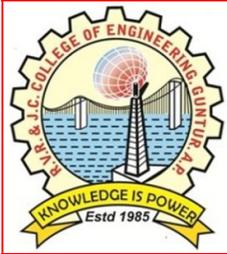
Dr.MVS Prasad, Professor of ECE

J.Ravindranadh, Assoc. Prof of ECE

U.Ramakrishna, Asst. Prof, ECE

P.Sivaprasad, Asst. Prof of ECE

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**July – December 2016, Volume 5, Issue 2**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
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- PEO2 To develop knowledge in experimentation and analysis of Electronics and Communication Engineering problems, to design and develop novel products / solutions for real life problems.
- PEO3 To develop teamwork, effective communication skills, professional and ethical attitude and life-long learning needed for successful professional career.

**MESSAGE FROM PRINCIPAL :**

To keep pace with the evolving technology, there is an increasing demand for man-power with engineering potential who is analytical, creative, and logical, a problem solver, a realist, who is versatile and forward thinking.

To meet this demand, our Department of ECE grooms the students to excel in the field of technology with a traditional and broad-based course which aims to produce well-rounded engineers with a high level of analytical and engineering design skills. Trained in both software and hardware skills and basic inputs to make them self-confident, our students are equipped to work in industry and pursue higher studies. Our motto being to upgrade the skills and knowledge of our young engineers to enable them to survive best in the best competitive world our students are encouraged to participate in various technical and extracurricular events.



**Dr.A.Sudhakar,  
Prof. of ECE & Director  
(R&D)**

**MESSAGE FROM HOD :**

ECE is one of the largest and fastest growing fields of engineering. ECE has a vital position in this technology revolution. Electronics & Communication Engineering gives enormous job opportunities in Electronics and Software Companies, Electronics Industry being a labor intensive industry provides many job opportunities for the skilled job seekers. ECE Education as always been dynamic and incoherent with the current development as well as innovations in creating new technologies. It is no exaggeration to say, There is no person in the world who is not using Electronic Product in one or the other way.

The department runs UG and PG Programmes namely B.Tech in ECE and M.Tech in CESP. The department has a team 33 members whose interest span almost all areas of Electronics & Communication and 650 UG and 18 PG students. we have over 10 Labs with advanced equipment and facilities for supporting our teaching and research.



**Dr.T.Ranga Babu  
Prof. & Head,  
Department of ECE**

## ACADEMIC RESULTS

Year		Total appeared	Total Passed	% Pass
IV/IV	VII Sem	211	209	91.09
III/IV	V Sem	206	181	89.16
II/IV B.Tech	III Sem	213	160	75.12
I/IV B.Tech	I Sem	181	156	86.19

## WORKSHOPS, GUEST LECTURES & SEMINARS CONDUCTED :

1. A Guest Lecture was organized for III/IV & IV/IV B.Tech Students on 'Cloud Computing' on 6<sup>th</sup> Oct. 2016.

Resource Person : **Mr. Anne Indrajith**,  
Director,  
INVENTIZ Enterprizes pvt. Ltd, Vijayawada.

2. A one day workshop on 'Introduction to real time Embedded Applications & Software Industries' was organized for the III year B.Tech students on 15<sup>th</sup> Sep. 2016.

Resource Person : **Mr. Ch. Chandrasekhar**,  
Software Architech.  
Hyundai Mobis India Ltd, Hyderabad.

3. A Guest Lecture was organized for III/IV & IV/IV B.Tech (ECE) students on 'Embedded Systems' on 18<sup>th</sup> August 2016.

Resource Person: **Sri Chaitanya Peddi**,  
Co-Founder & Product Head,  
Darwin box Digital Solutions pvt. Ltd, Hyderabad

4. A Guest Lecture was organized for B.Tech (ECE) students on 'Recent Trends on Information Technology' on 30 July, 2016 .

Resource Person: **Dr. K. Lakshmi Narayana**  
Ex. IAS Officer, Member in APSSDC.

5. A Guest Lecture was organized for III/IV & IV/IV B.Tech Students on 'Web Technologies' on 8<sup>th</sup> July. 2016.

Resource Person : **Mr. Anne Gowtham**,  
Director,  
INVENTIZ Enterprizes pvt. Ltd, Vijayawada.

## PAPER PRESENTATIONS/ PUBLICATIONS BY FACULTY :

1. A research paper on 'Design of Helical Array Antenna for the Generation of Positive Ramp and Stair-step Patterns using Amplitude Distribution Function', written by J. Ravindranadh, Assoc. Prof., Dr. A. Sudhakar, Prof. K. Padmaraju was published in the International Journal of Control Theory and Applications (IJCTA), Vol , Issue , IJCTA No:9(32), pp.65-72, ISSN No.0974-5572, December 2016.

2. A research paper on 'Design of Amplitude Distribution Functions for Desired Shaped Beams', written by J.Ravindranadh, Assoc. Prof, Dr. A.Sudhakar, Prof, K.Padmaraju Professor was published I-managers Journal on Electronics Engineering, Vol 7, Issue 1, pp.1-8, Sept – Nove 2016.
3. A research paper on 'Design and Development of Rectangular Patch Antenna for WLAN Applications', written by K.Kanaka Madhuri, Dr. A.Sudhakar, Prof, was published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE) Vol 5, Issue 8, pp.6826-6833, ISSN. 2320-3765, August 2016.
4. A research paper on 'Design of line source antennas for the Generation of Desired Shaped Beams without side lobes and ripples' written by C.Subba Rao, Dr. A.Sudhakar, Professor was published in International Journal of Electronics, Electrical and Computational Systems (IJEECS), Vol 5, Issue 8, pp.1-5, August 2016, ISSN No.2348-117.6826-6833, ISSN. 2320-3765, August 2016.
5. A research paper on 'A Review on Different Biometric Techniques: Single and Combinational' written by S.Sravan Kumar, N.Anand Ratnesh Asst. Prof, was published in IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), Vol 11, Issue 4, pp.25-30, ISSN No:2278-8735, July 2016.
6. P.S.Vamsi Krishna, Asst. Professor, presented a paper on 'Recent Advances in Microwave Antennas and Communication' in a National Conference conducted by PVP Siddhartha Institute of Technology, Vijayawada, during 1<sup>st</sup> – 2<sup>nd</sup> July, 2016.
7. J.Ravindranadh, Dr. A.Sudhakar, K.Padmaraju presented a paper on 'Design of Helical Array Antenna for Generation of Positive Ramp and Stair-step Patterns using Amplitude Distribution Function', in National Conference on New Trends in Multidisciplinary Research and Practice, NTMRP-2016, pp.8, 7<sup>th</sup> – 8<sup>th</sup> October 2016, GITAM University, Bengaluru, India, October 2016.

#### WORKSHOPS/SEMINARS/FDP's ATTENDED BY THE FACULTY

1. P.S.V.Krishna, Asst.Professor, attended a two day course on 'Recent Advances in Microwaves, Antennas and Communication' at PVP Siddharth Institute of Technology, Vijayawada, during 1– 2 July 2016.
2. J.Ravindranadh, Associate Professor, attended a five day workshop on 'Analog Integrated Circuit design and ASIC Implementation using Cadance EDA Tools' at Dept of ECE, Shri Vishnu Engineering College for Women in Collaboration with Entuple Technologies, Bhimavaram, during 6 – 10 July 2016.
3. Dr. T.Ranga Babu, Professor, attended a two day workshop on 'Introduction on Robotics and Embedded Systems' through the e-Yantra Lab Setup Initiative (eLSI), at CMR Engineering College, Hyderabad, during 16 - 17 Sep. 2016.
4. Dr. M.V.S.Prasad, Professor, attended a two day national seminar on 'March to Make in India through Engineering Advancements (MMIEA)', Department of Mechanical Engineering, RVR & JC College of Engineering, Guntur, during 29 -30 Sep.2016.
5. U.Ramakrishna, Asst.Professor, attended a one week workshop on 'CMOS RF Design' at IIT, Kharagpur, during 19 – 24 Sep. 2016.
6. P.P.S.Subhasini, Associate Professors, attended a three day national Level Faculty Development program on 'Embedded Systems', organized by department of ECE, Chalapathi Institute of Engineering & Technology, Lam, Guntur, during 3-5 Oct. 2016.
7. Dr. T.Ranga Babu, Professor, attended a two day National Seminar on 'Intelligent System for more connected world – Internet of Things (IoT)', organized by The Institute of Engineers India at Vijayawada, during 24<sup>th</sup> – 26<sup>th</sup> October 2016.
8. P.Siva Prasad, K.Sravanthi, K.Upendra Chowdary, N.Pavan Kumar, Asst. Professors, attended a One week FDP on 'Recent Trends in Signal Processing', organized by NIT, Warangal at KKR and KSR Institute of Technology, during 31<sup>st</sup> October to 5<sup>th</sup> November 2016.
9. Dr. G.Sudhavani, Professor, T.Suneetha, Asst.Professor, two weeks course on 'Technical Communication for Scientist and Engineers – online course' at IIT, Bombay, during 7<sup>th</sup> July to 15<sup>th</sup> November 2016.
10. Dr. M.V.S.Prasad, Professor, three day course on 'Ansys HFSS Software & 3D Printing' at Department of Electronics & Communication Engineering, Vignans University, Vadlamudi, during 17<sup>th</sup> – 19<sup>th</sup> November 2016.

11. K.Anil Kumar, K.Ashok Kumar, P.V.Krishna Kanth, Asst.Professors attended a Course of Study on four day 'VLSI Design', organized by SRK Institute of Technology, Vijayawada, during 15<sup>th</sup> -19<sup>th</sup> November 2016.
12. P.P.S.Subhasini, Associate Professors, attended a One week FDP on 'Speech Signal Processing', organized by Dept. of ECE NIT, Warangal, during 21<sup>st</sup> -26<sup>th</sup> November 2016.
13. A.Murali Krishna, Asst. Professor, attended a "FDP on Embedded Systems at the Skill Development Center", organized by Godavari Institute of Engineering and Technology, during 29<sup>th</sup> November 2016.
14. S.Ramesh Babu, Asst. Professor, attended a Five day FDP on 'Custom IC Design and ASIC Implementation using cadence EDA Tools', organized by V R Siddhardha Engineering College, Vijayawada, during 28<sup>th</sup> November 2016 to 2<sup>nd</sup> December 2016.

### TRAINING PROGRAMS CONDUCTED/ ATTENDED

1. IV/IV B.Tech Students attended training program on CRT, Module I by M/s. Triumphant Training Solutions, Hyd.& Module II – M/s Seventh Sense, Bangalore during July 11<sup>th</sup>, 2016 to 17<sup>th</sup>, 2016.
2. IV/IV B.Tech Students attended training program on Future Placements AMCAT & Co-cubes by Dr.G.S.Prasad,Dean,T&P Cell on December 8<sup>th</sup>, 2016.

### PLACEMENT DETAILS

S.No.	Company	Date(s) of Interview	Number of students selected
1	TCS HYD.	16 <sup>th</sup> -21 <sup>st</sup> Sept., 2016	192
2	Huyn dai Mobis,	23 <sup>rd</sup> Sept. 2016	1
3	Nalsoft,	28 <sup>th</sup> & 29 <sup>th</sup> Sept., 2016	3
4	Tech Mahindra,	03 <sup>rd</sup> October, 2016	42
5	NTTData.	5 <sup>th</sup> & 7 <sup>th</sup> & 8 <sup>th</sup> October, 2016	29
6	Global Edge,	6 <sup>th</sup> & 7 <sup>th</sup> October, 2016	8
7	ZenQ,	14 <sup>th</sup> & 15 <sup>th</sup> October, 2016	14
8	FSS, Chennai	26 <sup>th</sup> &27 <sup>th</sup> October, 2016	2
9	AppsTek CORP, Hyd.,	30 <sup>th</sup> Nov., 2017	3
10	Veda IIT,	10 <sup>th</sup> & 11 <sup>th</sup> December, 2016	8
11	Miracle,	17 <sup>th</sup> December, 2016	7

### STUDENTS PARTICIPATION

S.No	Name	Regd. No	Event	Organized Institute	Date
1	Evander. Isaac	Y14EC843	Big data and hadoop	IIT bombay	16-12-2016 to 18-12-2016
2	Manisha bulla	Y14EC818	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
3	Shiny jada	Y14EC858	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016

4	G. aparnasrinavya	Y14EC845	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
5	A.kyathineeharik	Y14EC803	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
6	B. ravikiran	Y14EC817	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
7	A.mohammed	Y14EC806	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
8	Chinnikrishnaabburi	Y14EC801	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
9	G.Yaswanth srinivasva	Y14EC850	Sixth sense robotics	IIT bombay	16-12-2016 to 18-12-2016
10	P. Bharath	Y14EC929	ANDROID APP DEVELOPMENT	IIT bombay	16-12-2016 to 18-12-2016
11	N. sriram	Y14EC952	ANDROID APP DEVELOPMENT	IIT bombay	16-12-2016 to 18-12-2016
12	T. Jagadeesh	Y14EC965	ANDROID APP DEVELOPMENT	IIT bombay	16-12-2016 to 18-12-2016
13	Y. Bhargavsajteja	Y14EC979	TRICOPTER - UAV	IIT bombay	16-12-2016 to 18-12-2016
14	S.S.R.Tejaswi	Y14EC957	Touch & Augmented Reality Workshop	BITS Pilani, Hyderabad	14-10-2016 to 15-10-2016

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