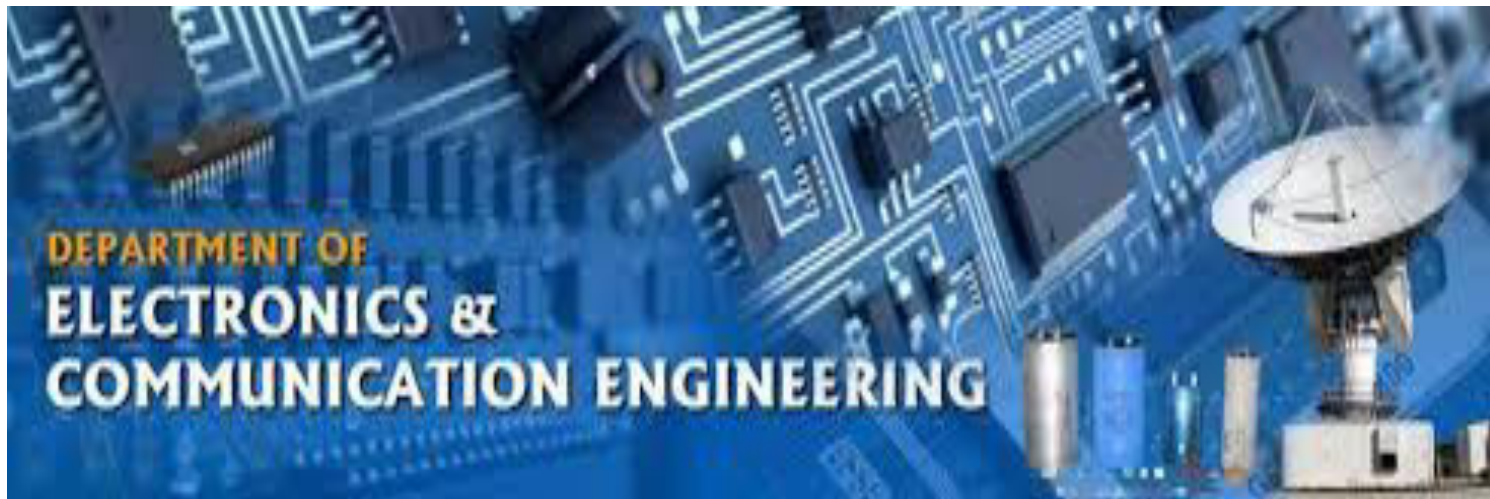


CMR TECHINICAL CAMPUS



ELECTROVISION Annual MAGAZINE VOLUME -3



**“ EDUCATION IS THE MOST POWERFUL WEAPON
WHICH YOU CAN USE TO CHANGE THE WORLD”**

CMR TECHNICAL CAMPUS

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUH)

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Kandlakoya (v), Medchal (M), Hyderabad - 501401

Send your Feedbacks to Electrovision@cmrtc.ac.in



CMR TECHNICAL CAMPUS

Department of ECE



ELECTRO VISION

-annual Magazine

Volume - III

Chairmans's Message:-

“ The growth of every countrny is the education of its youth”

The youth of the today are reckoning force of tomorrow. This implies that imparting knowledge and values to them should be an ongoing process. A 360 degree involvement of the parents, faculty, management & Students is of prime importance in this regard. I am very Happy to note that Our College is fully established with the state of the art infrastructure.



C. Gopal Reddy

Chairman, CMRTC

College magazine is an important medium to depict the Departmental Activities. It offers vast opportunity to budding writers to express their views on various Creative and Innovative topics.

I earnestly, hope that the entire students of ECE Department will make the best use of this oppurtunity by contributing to the Magazine and the readers will benefit from the knowledge content. I take this Oppurtunity to Congratulate the team which has worked hard for making this issue of the magazine a great success.

Secretary's Message:-



C. Vasantha Latha

secretary, CMRTC

I am glad to learn that Department of ECE is bringing its Annual magazine.

The Departmental magazine is a mirror that reflects its activities and creative ideas of the students and faculty. it offers ample oppurtunity to young writers to express their ideas publicly. I convey my good wishes and appreciate the endeavour of the Department in bringing out a successful publication of magazine.

Director's Message:-

'ElectroVision', Annual Magazine of ECE Department will serve as a mirror reflecting various achievements, aspirations and new initiatives of the Department, its students & Teachers . Department of ECE is expected to create a Landmark in the field of engineering, especially to train the students in such a way they justify the fundamental spirit of knowledge workers. I hope this Magazine Creates an Impact and you would enjoy the new Format.



Dr.A.Raji Reddy

HOD'S Message:-



Prof. G. Srikanth

It gives me immense pleasure to pen a few lines on the occasion of the release of the Departmental Magazine. This showcase the achievements of faculty members and students in the present academic year and I Congratulate the editorial team for bringing out the magazine very well. Meeting and measuring up to the emerging challenges is the prime requisite of today's budding Engineers. Our Students be sensitive to the ethical and human values of the society.

Our one such endeavour to excel is through the magazine where the students and the faculty can express themselves by contributing richly through their academic and extra-curricular achievements. This magazine of the Department is yet another milestone in the path of progress and we look forward to many more such endeavors in the near future.

“ Education is not what you learn, it is what you do with it ”.

Magazine Editor



Dr. Suraya Mubeen

It gives me great opportunity to present the departmental annual magazine. I feel privileged in presenting the third issue of Electro Vision. This includes various student curricular activities, academic performance of students.

Faculty organised events like workshops and FDP'S which has added an advent of new technologies. Finally i would thank who all have contributed in making the magazine to make this a success.

Good Luck

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ABOUT THE DEPARTMENT:

Most of the emerging technologies are due to rapid development of Electronic Communication Technology and Integrated Circuit Fabrication. The ECE Department Strives to impart quality technical education to meet the large demands for electronic hardware and software engineers in the fields of Computers, Telecommunications and Integrated Circuits.

The Electronics and Communication Engineering (ECE) Department in CMR Technical Campus has a rich tradition in research and teaching. The research intrests of the Faculty members of the Department encompass wide area of applied and fundamental aspects of Electronics and Communication Engineering. with dedicated team of faculty members to give Best education to bachelors (B.Tech- Electronics and Communication Engineering), Masters (M.Tech-Embedded System and doctoral Candidates in its discipline. We update ourself regularly with current trends in the field of Electronics and Communi-cation which help the students to know about the industry requirements. It also provides an outstanding research environment complimented by superior teaching for its students to flourish in.

VISION

The Department of Electronics and Communication Engineering endeavours to become a Centre of academic excellence and research.

MISSION

- * To provide the students with the state of art technologies to meet the growing challenges of the industry and society.
- * To promote reseach and consultancy through constant interaction with outside world.
- * To inculcate self learning abilities, team spirit and professional ethics among the students to serve the society.

Infrastructure:-

The Department of ECE has well established 9 Air-Conditioned Laboratories cater to the needs UG as well as PG Students.

Some of the Laboratories are:-

1. Electronic Circuit Analysis Lab
2. IC Applications Lab
3. Microprocessors and Micro-controllers Lab
4. Electronic Computer Aided design laboratory Lab
5. Analog and Digital Communications Lab
6. Microwave and Optical Communication Lab
7. DSP, P-SPICE, VHDL and MATLAB
8. Cadens VLSI Tools Lab
9. Microwave & Optical communications Lab

Special Software packages likePSPICE, MATLAB, CADENCE TOOLS, VHDL, MULTISIM, MODELSIM, KIEL are made available to Students.

Department of ECE has a separate block with eight laboratories and state-of-art equipment. The total area of ECE dept is 1676 sq.mtrs. The department has six classrooms equipped with LCD projectors. The department also has one OHP projector.The classrooms are well ventilated and furnished with black board, white screen and overhead projector. Departmental library,Association activity, Innovative Club, Research lab and Departmental seminar Hall.

LABORATORIES:

During the last 3 years, the department has developed the complete infrastructure required for conducting regular theory classes and laboratories for practical's related to B.Tech & M.Tech program. The department has spent a substantial amount for procuring useful software packages such as VHDL, XILINX, MATLAB, P-SPICE & KIEL software etc. Communication laboratory is quite well-equipped with seven microwave benches, Digital & Analog Communication trainer kits, storage oscilloscope, Spectrum Analyzer (500MHz) etc. With sufficient trainer kits and software packages in Microprocessor & Micro controller laboratories. The well-established Electronic Computer Aided Design (ECAD) laboratory facilitated in organizing a workshop on VLSI design.



1. *G.R.Sinha*, "Image Processing Tools for Improved Visualization and Analysis of Remotely Sensed Images for Agriculture and Forest Classifications", *Agriculture and Forestry Journal*, Vol. 1(1), pp. 27-32, June 2017.
2. *Chilakala Sudhamani*, *Dr.M.Satya Sai Ram*, "Coperative Spectrum Sensing Using Majority Fusion Rules in Cognitive Radio Networks", *International Journal for Modern trends in science and Technology*, Vol.3, No.7, July 2017.
3. *K.MohanaLakshmi*, "Hand written Telugu character recognition using Bayesian character "International Journal of Engineering and Technology", ISSN:2319-8613, July 2017
4. *K.Mohanalakshmi*, "An efficient technique for word identification and recognition in printed telugu documents"(ICIECE-2017 Conference), Special issue on Modern technologies (ICMTES-2017) 18TH-19TH August 2017.
5. *P.Irfan Khan*, "Design of different types of adders using double gate MOSFET Technique", Vol.7, No.2, February 2018(UGC).



1. **Chilakala Sudhamani**, Dr.M.Satya Sai Ram , "Energy Efficiency in Cognitive radio network using Hard fusion rules", 7TH International Conference on Engineering Technology Science and Management Innovation (ICETSMI -2017) , Vol.6, No.7, ISSN:2348-117X , pp.82-86, July 2017.
2. **Chilakala Sudhamani**, Dr.M.Satya Sai Ram, "Coperative Spectrum Sensing Over Rayleigh Fading channel," 6th International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2017): Published in International Journal for Modern Trends in Science and Tecnology, Vol.3, No.7, pp.237-241, July 2017.
3. **K.Mohanalakshmi**, "An efficient technique for word identification and recognition in printed telugu documents"(ICIECE-2017 Conference), Special issue on Modern technologies (ICMTES-2017) 18TH-19TH August 2017.
4. **Suraya Mubeen**, "Circular array synthesis using Cuckoo Search" ,International Conference on Micro electronics, Electromagnetics and Telecommunications(ICMEET-2017).Springer Conference at BVRIT Hyderabad during September 9th-10th 2017.
5. **P.Irfan Khan**, **B.Karuna Sree**, **Sk.Dilshad**, "Design of 2x2 Vedic multiplier using GDI technique "International Conference on energy,communication,data analytics SKR Enginnering college Chennai August 1st-2nd 2017

- *Chilakala Sudhamani, Dr. M. Satya Sai Ram,* "Estimation of success probability in Cognitive radio networks" International conference on communications and cyber physical engineering CMRIT Hyderabad, January 2018.
- *7. Sudha Arvind,* "Probabilistic based rate allocation flow control for traffic governance in wsn's", International conference on communications and cyber physical engineering, CMRIT Hyderabad, January 2018.8.
- *T. Sai Kumar, R. Nimala Devi,* "Optimization of Fuzzy Clustering Algorithms for Image Segmentation", International Conference on Science, Technology & Management, Institution of Engineers Viswesavrya Bhavan Hyderabad (published in UGC Journal International Journal of Electronics, Electrical and Computational System) December 2017
- *T. Sai Kumar,* "Statistical metric measurement approach for haze images", International conference on communications and cyber physical engineering, CMRIT Hyderabad. January 2018.
- *.K. Mohana Lakshmi, T. Ranga babu ,* "A novel telugu script recognition and retrieval approach based on hash coded hamming", International conference on communications and cyber physical engineering, CMRIT Hyderabad. January 2018.
- *B. Pradeep, G. Nishith, S. Sangeetha, P. Venkatakrishnan, G. Sriknath* "Design of a novel method for colorectal cancer (crc) epidemiology analysis by microsoft azure machine learning tool", ICMR Sponsored National Conference about Health care management NIT Rourkela



Faculty Name	Venue	Program Name	Duration
1. T.Narendra Kumar ,B.Anitha	Infotech Labs	Arduino in Pantech	July 7 th 2017
2. Dr.Suraya Mubeen	JNTU KAKINADA	National workshop on Advances in ECE	August 26 th -27 th 2017
3. S.Mallesh Naryan	Vidya Jyothi Institute of Technology	“Implementation of Image Processing using open source software	August 18 th -19 th 2017
4. Dr.Suraya Mubeen	CMR TECHINICAL CAMPUS	Ethical Hacking	February 27 th -28 th 2018
5.Dr.Suraya Mubeen	VJIT Hyderabad	Smart Antennas its Design	MARCH 16 TH -17 TH 2018
6.K.Mohana lakshmi	VJIT Hyderabad	Implementation of Image Processing using open source software	August 18 th -19 th 2107



Faculty Development Program

- *Dr.S.Sumalatha attended One week FDP on RF Antenna Design in MGIT Hyderabad, organised by NIT Warangal during June 19th -24th 2017.*
- *Dr.Suraya Mubeen attended One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during June 24th-30th 2017.*
- *S.Malles Naryan attended One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during June 24th-30th 2017*
- *T.Sai Kumar attended One week FDP on “Computer Vision and Image Processing” in CMR Technical Campus Hyderabad during June 24th-30th 2017*
- *Md.Abdul naqi attended One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during June 24th-30th 2017*
- *Sudha Arvind attended One week FDP on “Machine learning and data science with practical approach for engineering applications “at CMR Technical Campus during July 3rd-7th 2017*
- *Ch.Sudhamani attended One week FDP on Signal Processing for Wireless Communications” at MIC College of Technology during June 12th-17th 2017*
- *Ch.Sudhamani attended One week FDP on “Recent advances in Wireless Communications” at MIC College of Technology during November 23rd-25th 2017*



- V.Aswini attended One week FDP on Advanced Digital system design Verilog and Verification using system Verilog at CMRIT during July 3rd-8th 2017
- T.Nagarjuna attended One week FDP on RF Antenna Design at MGIT Hyderabad Organised by NIT Warngal during June 19th-24th 2017
- Sk.Dilshad attended One week FDP on Design and Analysis of RF Antennas using HFSS at LBRCE Vijayawada during 13th-18th November 2017
- B.Karuna Sree attended One week FDP on Digital System using FPGA and Simulink at CVR Engineering College during 20th-25th November 2017
- M.Sravanthi attended One week FDP on Advanced Antennas and Designing at JNTU Kakinada during October 9th-14th 2017
- B.Anitha attended One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during June 24th-30th 2017
- B.Anitha attended One week FDP on Digital System Design using FPGA and Simulink at CVR Engineering College during 20th-25th November 2017
- .B.Ragini attended One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during June 24th-30th 2017
- .B.Karunasree , attended One week FDP on recent advancements in xilinx and ASIC Designs Organised by NIT Warngal at JNTU Anathapuramu during 16th December-21st December 2017.
- .Sudha Arvind attended One week FDP on “Advances in Wireless Communications”, at CMRCET Hyderabad During December 11th-15th 2017.
- B.Ragini attended One week FDP on “Advances in Wireless Communications”, at CMRCET Hyderabad During December 11th-15th 2017.
- Dr.Suraya Mubeen attended One week FDP on IOT applications in real time at JNTU Kakinada during January 22nd-27th 2018.



➤ ***Centre for VLSI and Embedded systems*** organised ***One day Workshop on Vivado*** ***January 27th 2018*** during at ***CMR Technical Campus***



- **Centre for Signal and Image processing** organised One week FDP on Computer Vision and Image Processing in CMR Technical Campus Hyderabad during December 4th-12th 2017.









Association Event National Science Day conducted by Sudha Arvind and P.Kranthi Rathana on February 28th 2018





Innovative Club Arise event organised By T.Sai Kumar at CMR Technical Campus on March 10th 2018.





***Association event conducted BY Major Project Coordinators
Sudha Arvind, Dr.Suraya Mubeen, T.Sai Kumar
E-Numaesh-2018 Major Project EXPO
BY FINAL year students***



Judges:

Dr.K.Srujan RAJU Professor CSE &DEAN (SW)
Dr.Ahmed Ali Baig Dean Academics,
Dr.A.Saxena Dean Research and Development











Think CMR ,Think Placements

<i>S.NO</i>	<i>ROLL NO</i>	<i>STUDENTNAME</i>	<i>COMPANY</i>	<i>PACKAGE</i>
1	147R1A0444	R.BHAVYA SREE	GGK TECHNOLOGIES	2.4 LAKHS/ANNUM
2	147R1A04C4	B.NISHANTH	finnovation tech solutions	2.8 LAKHS/ANNUM
3	147R1A04E3	KAMALASNEHA	AMAZON	2.4 LAKHS/ANNUM
4	147R1A0406	SRIVASTAVA	AMAZON	2.4 LAKHS/ANNUM
5	147R1A0427	K.VISHAL	AMAZON	2.4 LAKHS/ANNUM
6	147R1A0441	P.PRATEEK	AMAZON	2.4 LAKHS/ANNUM
7	147R1A0455	MANASA	AMAZON	2.4 LAKHS/ANNUM
8	147R1A0493	SHARATH CHANDRA	AMAZON	2.4 LAKHS/ANNUM

<i>S.NO</i>	<i>ROLL NO</i>	<i>STUDENTNAME</i>	<i>COMPANY</i>	<i>PACKAGE</i>
9	147R1A0474	G.RAMYASREE	AMAZON	2.4 LAKHS/ANNUM
10	147R1A04A9	P.BALAKRISHNA	AMAZON	2.4 LAKHS/ANNUM
11	147R1A04G9	NAVYASREE	AMAZON	2.4 LAKHS/ANNUM
12	147R1A04F3	SAMYUKTHA	AMAZON	2.4 LAKHS/ANNUM
13	147R1A04H9	KAVYAMALIKA	AMAZON	2.4 LAKHS/ANNUM
14	147R1A04F4	PHANEENDRA	AMAZON	2.4 LAKHS/ANNUM
15	147R1A04D1	VAMSHIKRISHNA	AMAZON	2.4 LAKHS/ANNUM
16	147R1A04D0	VARSHAREDDY	AMAZON	2.4 LAKHS/ANNUM
17	147R1A04E6	SHIVAKRISHNA	AMAZON	2.4 LAKHS/ANNUM
18	147R1A04C2	B.NAVEEN KUMAR	AMAZON	2.8 LAKHS/ANNUM
19	147R1A04D5	L.SAI KRISHNA REDDY	SURYA TECH SOLUTIONS	2.4 LAKHS/ANNUM
20	157R5A0402	A.KRISHNA PRASAD	SURYA TECH SOLUTIONS	2.4 LAKHS/ANNUM
21	147R1A0432	M.LAVANYA	RYNA TECHNOLOGIES PVT LTD	3 LAKHS/ANNUM
22	147R1A0446	S.PAVANI	RYNA TECHNOLOGIES PVT LTD	3 LAKHS/ANNUM
23	147R1A04E5	K.NAGASRI	JUSTDIAL	2.4 LAKHS/ANNUM
24	147R1A04C5	CH.VEENA	finnovation tech solutions	1.8 LAKHS/ANNUM
25	147R1A04G1	R.PRIYANKA	finnovation tech solutions	1.8 LAKHS/ANNUM
26	147R1A04C6	G.BALAKIRAN	finnovation tech solutions	1.8 LAKHS/ANNUM
27	147R1A04F5	M.SANDHYARANI	EMS TECHNOLOGIES	2.4 LAKHS/ANNUM

Internship

S.No	Name of the Student	Roll No	Name of the Company	Duration
1	MUDDA LAVANYA	147R1A0432	Internship at BHEL Lingampally	Jun-17
2	KANUMURI LOHIT VARMA	147R1A04E8	Internship at BHEL Lingampally	Jun-17
3	SRIMANTHULA SRI CHAKRI	147R1A04B3	Internship at BHEL Lingampally	Jun-17
4	NALLA CHAKRADHAR	147R1A0437	Internship at BHEL Lingampally	Jun-17
5	PANNALA PRATEEK	147R1A0441	Internship at BHEL Lingampally	Jun-17
6	Y.P.VASHISTA	147R1A0459	Internship at BHEL Lingampally	Jun-17
7	P.G.V. SRINIVAS	147R1A0448	Internship at BHEL Lingampally	Jun-17
8	YADDANAPUDI SWATHI	147R1A0460	Internship at BHEL Lingampally	Jun-17
9	P ASHAY	147R1A0498	Internship at BHEL Lingampally	Jun-17
10	V KEERTHI	147R1A0456	Internship at BHEL Lingampally	Jun-17

S.No	Name of the Student	Roll No	Name of the Company	Duration
11	BETHAPUDI JAYA VAISHNAV	157R5A0414	Internship at BHEL Lingampally	Jun-17
12	PENDLIMADUGU SREE PRAVALLIKA	147R1A0443	Internship at BHEL Lingampally	Jun-17
13	CHEPURI KAVYA	147R1A0405	Internship at BHEL Lingampally	Jun-17
14	GUNTUR VEDA SREE	147R1A0414	Internship at BHEL Lingampally	Jun-17
15	SHAMANTHULA PAVANI	147R1A0446	Internship at BHEL Lingampally	Jun-17
16	M KRANTHI REDDY	147R1A04F1	Internship at HBL	Jun-17
17	P SAI KAILESH	147R1A04F0	Internship at HBL	Jun-17
18	BASHETTY ROHITH KUMAR	147R1A04C1	Internship at HBL	Jun-17
19	MARSHETTY SAIKRISHNA	147R1A04F7	Internship at HBL	Jun-17
20	ELUGOYA PRANAY	147R1A04D4	Internship at HBL	Jun-17
21	N SANDEEP GOUD	147R1A0439	Internship at NTPC	Jun-17

S.No	Name of the Student	Roll No	Name of the Company	Duration
22	M.AMARENDRA REDDY	147R1A0436	Internship at NTPC	Jun-17
23	UMMADI PAVANI	147R1A04G6	Internship at Indian Railways	Jun-17
24	TAMARAPALLI GAYATHRI	147R1A04G4	Internship at Indian Railways	Jun-17
25	P SAMYUKTHA	147R1A04F3	Internship at Indian Railways	Jun-17
26	K NAGASRI	147R1A04E5	Internship at Indian Railways	Jun-17
27	K KAVYA MALIKA	147R1A04H9	Internship at Indian Railways	Jun-17
28	VADLAMUDI NAGA NAVYA SHREE	147R1A04G9	Internship at Indian Railways	Jun-17
29	NEHA GAUTAM	147R1A0442	Internship at BHEL Lingampally	Jun-17
30	H.BHARGAVI	157R1A0417	Internship at BHEL Lingampally	Jun-17

