

Volume-23



**CMR ENGINEERING COLLEGE**  
**UGC AUTONOMOUS**

Approved by AICTE-New Delhi | Affiliated to JNTUH | Accredited by NAAC & NBA



Department of Electronics and Communication Engineering

# CMRECHO ECE NEWS

Academic Year 2023-24

(December-2023)





# CMR ENGINEERING COLLEGE

## UGC AUTONOMOUS

### Chief Patrons

Chairman

**Shri Ch. Narasimha Reddy**

Vice - Chairman

**Ch. Bhoopal Reddy**

Secretary & Correspondent, CMREC.

**Shri Ch. Srisailam Reddy**

### Patron

**Dr. A. Srinivasula Reddy**

Principal, CMREC.

### Chief Editor

**Dr. Suman Mishra**

Hod, ECE Department

### Editors

**Dr. S. Poongodi**

Prof, ECE Department

**Mr. B. Papachary**

Asso. Prof, ECE Department



## ➤ ABOUT CMREC

CMR Engineering College, popularly known as CMREC, was Established in 2010 in a vast area of 10 acres and a built up area of 1, 75,000 sq.ft. The college is affiliated to JNTU Hyderabad and is approved by All India Council for Technical Education, New Delhi and got autonomous status in the year of 2020.

The college provides a perfect ambience of aesthetically designed buildings. CMR Engineering College (CMREC) is situated on Hyderabad – Nagpur highway (NH7), tucked away from the hustle and bustle of the city and possessing halcyon surroundings. The college is an urban green lung with awe-inspiring Wi-Fi enabled infrastructure, well-ventilated classrooms, laboratories to foster technological skills, and libraries where books span time, space, culture and genre. To aid the process of learning we have a state-of-art auditorium where various events are conducted to showcase the creative flair of the students. As a provision for physical fitness, the college also has a sports field and indoor stadium.

CMREC was started with 300 seats with the Bachelor Degree in Engineering Program, the institute now has total intake of 1060 by offering seven Under Graduate Courses in ECE, CSE, IT, CSE (AI&ML), CSE (DS), CSE (CS) & MECH and three Post Graduate Courses in CSE, VLSI & TE. CMREC's beautiful facility and rich campus is distinctively different from other college campuses across Hyderabad because of the dynamic community of supportive peers, caring and mentoring professors, and friendly staff who work here with commitment. It is an ideal setting for scholastic dedication, pleasant interaction and unbounded pragmatic exploration.

## ➤ VISION

- To be recognized as a premier institution in offering value-based and futuristic quality technical education to meet the technological needs of the society

## ➤ MISSION

1. To impart value-based quality technical education through innovative teaching and learning methods
2. To continuously produce employable technical graduates with advanced technical skills to meet the current and future technological needs of the society
3. To prepare the graduates for higher learning with emphasis on academic and industrial research

## MANAGEMENT



**CHAIRMAN**

**Sri. Ch. Narasimha Reddy**, the founder chairman of CMR Engineering college is a highly evangelistic cultivator and decision maker with an interest in boosting education and flourishes to maintain CMRCET, CMRCP, CMRIT and CMR schools at very richly standard. He works with a missionaryardor.He has effectively used his skills for the establishment and management of various professional educational institutions in providing quality education in the down-trodden through CMR group. He cognizes the problems being confronted by the miserable and the needy sections of the society unerringly and meticulously and emphasized more on the passion as well as vision of the notion building exercise by producing socially conscious technocrats.



**VICECHAIRMAN**

**Sri. Ch. Bhoopal Reddy, B.Tech, MBA (Lon.)**, the Vice Chairman of CMR Engineering college is a young and dynamic leader who has been the driving force behind the CMREC channelizing them to the meridian to produce kinetic minds who can adapt the changingscenarioandtangledsituationsandareinnovativeenoughtofacediversechallenges effectively in this competitive world of today. He always welcomes innovative ideas and techniques into the organization and gets acclimatized to the new concepts which may reclaim the predominant issue and sets new standards for technical education. He strongly supports for teaching fraternity to be proactive in not only crafting engineers but also building up technocrats with obsession for the well being of the country and empathy for the fellow beings.





**SECRETARY&CORRESPONDENT**

**Sri. Ch. Srisailam Reddy, B.Tech, MIT (Aus.),** the secretary and correspondent of CMR Engineering College is an outstanding personality and a great acumen with a vision of building up the standard of educational institutions to provide quality technical education in a splendid nature. He strongly works to expand and enhance our contribution in knowledge generation and application to solve the problems that prevail in the society. He resolves to rededicate himself to the cause of the nation the vision of the March, 2020, the dream of seeing India as a developed nation. He feels that to attain the goal, it's our responsibility to bring forth richly qualified and technically creamy students through CMREC. He is also committed to provide state – of – art engineering education instilling in students honesty, integrity and ethics in their pursuits.

➤ **About Principal**



**PRINCIPAL**

**Dr. A.Srinivasula Reddy,** a name which spells supreme quality in the fields of Academics and Administration, has been rendering his untiring services as the Principal of CMR Engineering College for the past 10 years. He is a PhD (Electrical Engineering) holder with a vast experience of over 25 years in the educational sector. He is ratified as Professor and Principal by JNTUH. An able visionary administration has enabled him to excel in his leadership role; and helped in establishing CMREC to a position of pre-eminence within a few years, excelling in various engineering Autonomous conferment, National Board of Accreditation (NBA) and National Assessment and Accreditation Council(NAAC), ISO and 2f/12B Certifications.

Over the years, under his able vision, guidance, professional integrity, vibrant competence and energy have helped the CMR Engineering College to become as one of the top Engineering Colleges in the state of Telangana. He always believes in “5Ps” which includes Placements, Publications, Projects, Patents and Participative administration for the sustenance of an institution.

He has received 6 National Awards for his tremendous service which include Best Principal Award from MSME, ‘Indira Gandhi Seva Ratna’, ‘Shining Image of India’, ‘Bharath Gaurav’, Bharath Shiksha Ratan Award’, and ‘Rashtriya Vidya Saraswati Puraskar’ for his relentless contributions to the field of Academics. He has published two National and one International book, Reviewer for McGraw hill, RBA publications, Elsevier-3, IJERT etc. Under his supervision 3Ph.D scholars were awarded doctoral degree and 5 Research scholars are working presently for their Ph.D. He has filed 10 Research patents and contributed more than 55 Research Papers in SCI/SCOPUS Indexed and UGC recognized International and National Journals and conferences.

### ➤ ABOUT DEPARTMENT OF ECE

The Department of Electronics and Communication Engineering of CMR Engineering College was started in the academic year 2010-11 with an annual intake of 120 students for the B.Tech (ECE) Program. The intake was increased to 180 students in the academic year 2012-13 and subsequently increased to 240 students in the academic year 2013-14. In addition to the sanctioned intake of students, the Department admits 10% lateral entry students in the II year B.Tech (ECE) Programme.

M.Tech Programme was started with 12students’intakein the specialization of VLSI System Design from the academic year 2014-15.The B.Tech (ECE) Program is duly approved by the AICTE and Government of Telangana and affiliated to Jawaharlal Nehru Technological University (JNTUH), Hyderabad. Seven batches have graduated so far.

The Department have 58 highly qualified and experienced faculty members. The department faculties are members of Professional Bodies like ISTE, IEEE, and IETE. The department has exclusive students ‘chapters of ISTE, IEI, IETE and IEEE professional bodies, in which the students of the department are provided with memberships. A technical association (ECMRON) of ECE has been formed by the senior students of the department for the benefits of students to impart additional knowledge in the field of Electronics and Communication Engineering apart from the prescribed curriculum.

The Department has state of art laboratories as mandated by the CMREC autonomous Syllabus which is approved by JNTUH for curriculum and research. The exclusive R&D and Project laboratory in the department paves path for the students to conduct their project work and acquire good knowledge &technical skills in the field of Electronics, Communication, Microwave, VLSI, Digital Signal Processing and Micro Processors &Micro Controllers. The Department periodically organizes seminars, symposia, workshops and guest lectures for the benefit of both the students and the faculty.

➤ **About HoD of ECE**



**Dr.SUMAN MISHRA**

**Dr.Suman Mishra** is working as Professor and Head of the Department of Electronics And Communication Engineering. He has obtained his under graduate degree in Electronics And Communication Engineering from the Institution of Engineers(India), master degree in Applied Electronics from University of Madras and Ph.D degree from Sathyabama university, Chennai. He has obtained certification from Indo Universal Collaboration for Engineering Education (IUCEE) for teaching methodologies. He has over 19 years of teaching and research experience coupled with 4 years of industrial experience. He is guiding a fulltime research scholar for Ph.D degree. His research area include Digital Image Processing , Embedded Systems, Wireless Sensor Network etc. He has guided 14 M.Tech dissertations and 50 B.Tech projects. He has published 26 research paper in peer reviewed journals and conferences both in national and international level. He has authored two textbooks, Electronics Devices and Wireless Sensor Networks.

He is lifetime member of AMIE, ISTE and IAENG. He is the reviewer for two International Journals and had been a member of technical committees for two International Conferences. He has acted as examiner for Ph.D Thesis. He has been guiding student community to develop excellent path breaking projects that are useful to mankind.

➤ **VISION OF THE DEPARTMENT**

- To promote Excellence in Technical Education and Scientific Research in Electronics and Communication Engineering for the benefit of Society

➤ **MISSION OF THE DEPARTMENT**

**M1:** To impart Excellent Technical Education with State of Art Facilities inculcating Values and lifelong learning attitude.

**M2:** To develop Core Competence in our students imbibing Professional Ethics and Team Spirit.

**M3:** To encourage Research benefiting Society through Higher Learning.

➤ **PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

- **PEO 1:** Establish themselves as successful professionals in their carrier& higher education in Electronics & Communication Engineering and allied fields through rigorous quality education.
- **PEO2:** Develop professionalism. Ethics, Excellent leadership quality, Communication skills, teamwork and multidisciplinary thinking in their profession & adapt to current trends by engaging lifelong learning.
- **PEO 3:** Apply the acquired knowledge & skills in solving real life problems, to develop novel technology and design products which are economically feasible and socially relevant to the benefits of society.
- **PEO 4:** To prepare the graduates for developing administrative acumen, to adapt diversified and multidisciplinary platforms to compete globally.

➤ **PROGRAM SPECIFIC OUTCOMES (PSOs)**

- **PSO1:** Ability to apply concepts of Electronics & Communication Engineering to associated research areas of electronics, communication, signal processing, VLSI, embedded systems, IoT and allied technologies.
- **PSO2:** Ability to design, analyze and simulate a variety of Electronics & Communication functional elements using hardware and software tools along with analytic skills.

➤ **PROGRAM OUTCOMES (POs):**

**PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

**PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

**PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

**PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).



**PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6: The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

**PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

**PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

**PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

**PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

➤ **ELECTRONICS COMMUNICATION  
MODULATED REDEFINED OUTWIT  
NOOK(ECMRON)**



Association of ECE has been started at the department level. Its objectives are to provide a platform for students to improve the technical skills and in turn showing a way to develop their knowledge in communication and in emerging technologies. This club conducts events periodically throughout the year, such as Technical quiz, Technical debates, Symposium, workshop etc. At end of the every year the best students from this club will be rewarded. On a regular basis, we conduct guest lectures by experts and eminent persons from various fields. The ECE students Consortium focuses on developing the technical base of students keeping step with the present day requirements for deeper domain knowledge.

• **EXECUTIVE BODY**

| S.NO | NAME                 | POSITION      | DESIGNATION            |
|------|----------------------|---------------|------------------------|
| 1.   | Dr.Suman Mishra      | Chairman      | Head of the Department |
| 2.   | Vaseem Ahmed Qureshi | Vice Chairman | Associate Professor    |

• **FACULTY INCHARGE**

| S.NO | NAME         | POSITION          | DESIGNATION         |
|------|--------------|-------------------|---------------------|
| 1.   | B.Papachary  | Faculty In charge | Associate Professor |
| 2.   | B.Prashanthi | Faculty In charge | Assistant Professor |

• **STUDENT COUNCIL**

| S.NO | NAME                   | POSITION         | YEAR      |
|------|------------------------|------------------|-----------|
| 1.   | Bandi Ravi Varma       | Secretary        | IV- Year  |
| 2.   | Ausali Chaitanya Kumar | Joint Secretary  | III- Year |
| 3.   | Tara Bhadur Bhandari   | Treasurer        | IV- Year  |
| 4.   | B Sai Ram Laxman Reddy | Executive member | IV- Year  |

## ➤ **STUDENT ACTIVITIES CLUB (SAC)**

Opening eyes to more than just studies. The SAC is committed to achieving a pluralistic community and to assisting the student body in developing rational, critical and creative capabilities. More specifically, it seeks to engage students in active learning, to assist them in establishing a meaningful value based and futuristic quality system, and ethical standards, and to set high expectations for each student.



Through our programs and personal interactions, we collaborate with students and faculty members to provide diverse and balanced technical, intellectual, cultural and social programs. The main aim of these programs is used to encourage student learning and holistic development, awareness and responsible living, and enhance the vision of the college. By offering effective programs and participation in all College venues and by encouraging and supporting activities that include student clubs and organizations, provides opportunities for students to inculcate values and lifelong learning attitude.

At CMREC, you are more than a student attending classes, writing papers, and preparing for examinations. Your primary reason for being here maybe academic, but it does not fully describe you. Participating in various student clubs may interest and excite you. Such co-curricular activities are an integral part of your education.

### **SAC COORDINATOR: D.LATHA**

- **SAC Activities**

We conduct various events and sessions throughout the year to bring out the techie in students of CMREC.

- **Projects**

Currently few students are working on their major/minor projects under the club.

- **Lectures& Workshops**

Watch, Learn and Practice. Each club conducts lectures and workshop throughout the year covering various topics of electronics.

- **Compete with your Batch mates**

Competitions/Quiz among students conducted weekly

- **Test your Potential**

Show/test you're potential

➤ **NEXT GENERATION COMMUNICATION NETWORKS (NGCN) CLUB:**



NGCN club motto is Communicate or Stagnate. The students in the CMR Engineering College have established this group in order to communicate information and events among our cohort. Known as NGCN, the group strives for a feeling of family among students from a diverse range of background and situations. NGCN is committed to your academic, professional, and social success, and to the success of the graduate program at the CMREC. There will be regular NGCN meetings, and we welcome your participation to make NGCN as strong and as worthwhile as possible. This is the venue to share your thoughts on issues relevant to the student body and the graduate program. We will also be holding lots of social activities this year. So we encourage you to get involved, as it'll be a lot of fun and is your chance to make a difference in your educational environment.

• **FACULTY INCHARGE**

| S.NO | NAME              | POSITION          | DESIGNATION         |
|------|-------------------|-------------------|---------------------|
| 1.   | Mr.M.Raja         | Faculty In charge | Associate Professor |
| 2.   | Mrs.N.Lakshmidevi | Faculty In charge | Associate Professor |

• **STUDENT COUNCIL**

| S.No | Roll Number | Name of the Student | Position         | Year     |
|------|-------------|---------------------|------------------|----------|
| 1    | 208R1A04M0  | Panuganti samsritha | President        | III-Year |
| 2    | 208R1A0424  | Katta Atheesh       | Vice-President   | III-Year |
| 3    | 218R5A0418  | Poduri Dasharadh    | Secretary        | III-Year |
| 4    | 218R1A0485  | Jangili Ramesh      | Joint Secretary  | II-Year  |
| 5    | 218R1A04L8  | GurramTejasri       | Executive Member | II-Year  |

- Club Registration Link: <https://forms.gle/Qwc3xhrbw2SgjZJN9>
- Meeting Id: <https://meet.google.com/xoh-xaku-egs>
- Whatsapp Invite link: <https://chat.whatsapp.com/BqvZwcMIu0X4kNQqSbqzI9>



➤ **EMBETRONICS CLUB:**



To create and develop the idea of students towards realization of practical application, Department of Electronics and communication Engineering is formed Embetronics System club. This main aim of the club is to provide basic knowledge of Embedded Systems and will also help students to use these concepts to come up with constructive and useful Embedded Mechanics System. This club contains three levels, Beginner (II year), challenger (III year), facilitator (IV year) where Experience seniors transfer their knowledge to Newbie's junior. Embetronics Club creates a platform for sharing innovative ideas and to develop the research based activities among students.

• **FACULTY INCHARGE:**

| S.NO | NAME           | POSITION          | DESIGNATION         |
|------|----------------|-------------------|---------------------|
| 1.   | Mrs.D.Latha    | Faculty In charge | Assistant Professor |
| 2.   | Mr.P.Goverdhan | Faculty In charge | Assistant Professor |

• **STUDENT INCHARGE:**

| S.No | Roll Number | Name of the Student    | Position         | Year     |
|------|-------------|------------------------|------------------|----------|
| 1.   | 188R1A0408  | Ravi Varma Bandi       | President        | IV- Year |
| 2.   | 188R1A0460  | YamaVarsha             | Vice-President   | IV- Year |
| 3.   | 188R1A04L9  | Ninaru Guru Prasad     | Secretary        | IV- Year |
| 4.   | 188R1A0423  | Jangam Bhavana         | Joint Secretary  | IV- Year |
| 5.   | 198R5A0402  | Ausali Chaitanya Kumar | Executive Member | III-Year |

- Registration Link:<https://forms.gle/Qwc3xhrbw2SgjZJN9>
- Meeting Id:<https://meet.google.com/xoh-xaku-egs>
- WhatsappInvitelink:<https://chat.whatsapp.com/4evcq4Iu9PIBpg77p5j8ge>

## ➤ VAIDYUKTHA (ELECTRONICS) CLUB:

The Electronics Club is a community of electronics hobbyists and enthusiasts with in CMR Engineering College, Hyderabad. Electronics Club is for all those electronic maniacs who have the courage to accept the challenges in the field of hardware, who have the capabilities to turn imagination to reality and who have the patience to cope up with the surprises in offering for one in circuits and hardware functioning. The idea is to develop a comprehensive knowledge of electronics and bring about the projects based on core electronics which gave the initiation to Electronics Club. The aim of the club is to fill in the void of Electronics hobbyists in the institute by providing a platform where the theory learnt in classes can be applied in the real world. With the constant support from Department of Electronics and Communication Engineering, CMREC, Electronics Club is striving ahead to emerge as the “go-to” forum with constant active discussions and sessions where every minor problem related to electronics can be addressed. The Electronics Club is a hobby group that aims to teach and help people understand the seemingly incomprehensible electronic gadgets in the world today, and also assists people in developing their own devices. To this end, various lectures, workshops, projects as well as competitions throughout the year concerning both analog as well as digital electronics keep the calendar busy and allow the participants to learn.

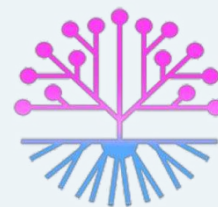
### • FACULTY INCHARGE

| S.NO | NAME          | POSITION          | DESIGNATION         |
|------|---------------|-------------------|---------------------|
| 1.   | Mrs.G.Kalpana | Faculty In charge | Associate Professor |
| 2.   | Ms.P.Rani     | Faculty In charge | AssistantProfessor  |

### • STUDENT COUNCIL

| S.No | Roll Number | Name of the Student      | Position            | Year     |
|------|-------------|--------------------------|---------------------|----------|
| 1    | 208R1A04I2  | ALETI SRINIJA            | PRESIDENT           | III YEAR |
| 2    | 208R1A04A0  | MYLARAM<br>YASHASWINI    | VICE-PRESIDENT      | III YEAR |
| 3    | 218R1A0429  | KHAMBHAMPATI<br>VIGHNU   | SECRETARY           | III YEAR |
| 4    | 218R1A04A8  | NANDIKANTI SAI<br>SURESH | JOINT SECRETARY     | II YEAR  |
| 5    | 218R1A04I7  | TANGALLAPALLY<br>SNEHA   | EXECUTIVE<br>MEMBER | II YEAR  |

- Club Registration Link:  
[https://docs.google.com/spreadsheets/d/1L2MRK1TdR7FDhTSEMv8s\\_wqgtWMLX73At9HEU-fcOoOw/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1L2MRK1TdR7FDhTSEMv8s_wqgtWMLX73At9HEU-fcOoOw/edit?usp=sharing)
- Meeting Id: <https://meet.google.com/ypo-dsxn-jwe>
- WhatsappInvitelink:<https://chat.whatsapp.com/EiIj6nNaK23LotvdQT9ZC6>



➤ **VLSI AND EMBEDDED DESIGN ANALYSIS (VEDA CLUB):**

Department of ECE has formed VEDA club to develop the ideas of students towards realization of practical application in the fields of VLSI and Embedded Design Analysis and to make the students industry ready with practical hands on experience. This main aims of this club is to provide the basic knowledge of VLSI and Embedded design analysis which is very helpful to students to learn and use these concepts to come up with constructive and useful VLSI and Embedded designs.

• **FACULTY INCHARGE**

| S.NO | NAME                   | POSITION          | DESIGNATION         |
|------|------------------------|-------------------|---------------------|
| 1.   | Dr. K. Sravan Abhilash | Faculty In charge | Associate Professor |
| 2.   | Ms. L Lavanya.         | Faculty In charge | Assistant Professor |

• **STUDENT COUNCIL**

| S.No | Roll Number | Name of the Student   | Position         | Year     |
|------|-------------|-----------------------|------------------|----------|
| 1    | 208R1A04M0  | PANUGANTI SAMSRITHA   | PRESIDENT        | III YEAR |
| 2    | 208R1A0424  | KATTA ATHEESH ANKAR   | VICE-PRESIDENT   | III YEAR |
| 3    | 218R1A0406  | BENDI JITHENDER REDDY | SECRETARY        | III YEAR |
| 4    | 218R1A0406  | BENDI JITHENDER REDDY | JOINT SECRETARY  | II YEAR  |
| 5    | 218R1A0489  | K GOPI KRISHNA        | EXECUTIVE MEMBER | II YEAR  |

- Club Registration Link: <https://forms.gle/ugxjMYtChmj6JANV9>
- Meeting Id: <https://meet.google.com/hgj-bhrn-qjz>
- WhatsappInvitelink: <https://chat.whatsapp.com/FoDGYSY4fzoCYf9bEBtKZA>

## **MEMBERSHIPS**

### ➤ **The Indian Society for Technical Education (ISTE)**

**The Indian Society for Technical Education (ISTE)** is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. At present, ISTE has a very large and an effective membership base consisting of more than 1,02,985 Life Members, 5,54,094 Student Members, 2410 Institutional Members (including IITs, IISc., NITs and other leading technical institutions), 1214 Faculty Chapters and 1322 Students' Chapters and 17 Sections throughout the country.



The major objective of the ISTE is to provide quality training programmes to students and teachers of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.

- Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
- To assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.
- Providing guidance and training to students to develop better learning skills and personality.

#### • **Faculty Advisors**

| S.No | NAME            | DESIGNATION         |
|------|-----------------|---------------------|
| 1    | Dr.Suman Mishra | Professor & HOD     |
| 2    | B.Papa chary    | Branch mentor       |
| 3    | K. Vani         | Associate professor |

#### • **Student Office Bearers**

| S.No | Name                     | Designation    | Roll No.   |
|------|--------------------------|----------------|------------|
| 1    | Thadapally Mohan krishna | President      | 218R1A0460 |
| 2    | S. Yashawini             | Vice-President | 218R1A04B8 |
| 3    | K Srikanth               | Secretary      | 218R1A04M7 |
| 4    | C. Akshaya               | Treasurer      | 218R1A04L4 |



➤ **The Institution of Electronics and Telecommunication Engineers (IETE)**



The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT. Founded in 1953. The IETE is the National Apex Professional body of Electronics and Telecommunication, Computer and IT professionals. It serves more than 1, 25, 000 members (including corporate, student and IETE Student Forum (ISF) members) through various 64 Centers, spread all over India and abroad. The institution provides leadership in Scientific and Technical areas of direct importance to the national development and economy. Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational Institution of national eminence. The objectives of IETE focus on advancing electro-technology. The IETE conducts and sponsors technical meetings, conferences, symposia, and exhibitions all over India, publishes technical journals and provides continuing education as well as career advancement opportunities to its members.

The IETE can play a useful and stimulating role by

- Improving the standard of education;
- Counseling the students in the emerging new opportunities;
- Encouraging outside-the-classroom studies/practical work/seminars etc;
- Better employment of the students on completion of their courses.

• **Faculty Advisors**

| S.No. | Name of the Faculty | Designation         |
|-------|---------------------|---------------------|
| 1     | Dr.Suman Mishra     | Professor & HOD     |
| 2     | B.Papachary         | Branch Mentor       |
| 3     | K.Vani              | Associate professor |

• **Student Office Bearers**

| S.No | Name                     | Designation    | Roll No.   |
|------|--------------------------|----------------|------------|
| 1    | Thadapally Mohan krishna | President      | 218R1A0460 |
| 2    | S. Yashawini             | Vice-President | 218R1A04B8 |
| 3    | K Srikanth               | Secretary      | 218R1A04M7 |
| 4    | C. Akshaya               | Treasurer      | 218R1A04L4 |

➤ **IEEE STUDENT FORUM (ISF)**

The IEEE (Institute of Electrical and Electronics Engineers, Inc.), a non-profit organization, is the world's leading professional association for the advancement of technology with more than 3,67,000 members including 73,000 students in over 150 countries. The global organization helps and supports development and application of technology and science around the world for the benefit of the humanity,



The individual and the professional IEEE serves as a major publisher of scientific journals and as a conference organizer. It is also a leading developer of industrial standards in broad range of disciplines including electric power, and energy, biomedical technology and health care, information technology, information assurance, telecommunications and nano technology. IEEE develops and participates in educational activities such as accreditation of electrical engineering programmers in institutions of higher learning.

A unit of IEEE functions in our college and our members take active part in its programmes. HUB level and National level programmes are organized in the college. WIE (Women in Engineering), an affinity group of IEEE is also very active in the campus.

• **Faculty Advisors**

| S.No | Name of the Faculty | Designation           |
|------|---------------------|-----------------------|
| 1    | Dr.A.S.Reddy        | Professor & Principal |
| 2    | Dr.Suman Mishra     | Professor & HOD       |
| 3    | B.Papa chary        | Associate Professor   |

• **Student Office Bearers**

| S.No | Name                         | Designation    | Roll No.   | Member ID |
|------|------------------------------|----------------|------------|-----------|
| 1    | Andhra Satya Srinivas        | President      | 188R1A0404 | 97735778  |
| 2    | Vangara Jayasree             | Vice-President | 188R1A04B4 | 97739492  |
| 3    | Konduru Nikhil               | Secretary      | 198R1A0427 | 97735292  |
| 4    | Gunturi Jahnavi Naga lakshmi | Treasurer      | 198R1A04E2 | 97728294  |

### ➤ **The Institution of Engineers India [IEI]**

The Institution of Engineers (India) [IEI] is a statutory body to promote and advance the engineering and technology, established in 1920 and incorporated by Royal Charter in 1935. It is the largest multi-disciplinary professional body of engineers encompassing 15 (fifteen) engineering disciplines with a Corporate membership of over 2 lakhs, and serving the nation for more than 9 decades. The IEI has its headquarters located in Kolkata with national presence through more than hundred Centres and several Overseas Chapters, For as and Organ.



The Institution was granted Royal Charter On September 9, 1935 by his Majesty the King and Emperor George V, which was a momentous event in the annals of Engineering Industry and education in India. The Royal Charter endowed the Institution with the responsibility to promote the general advancement of engineering amongst members and persons attached to the Institution. IEI has been recognized as Scientific and Industrial Research Organization by the Ministry of Science & Technology, Govt. of India and besides conducting its own research, provides Grant-in-Aid to UG/PG/ PhD students of Engineering Institutes & Universities.

#### ▪ **Objectives**

##### • **Practice of Engineering Profession**

A Corporate Member who has obtained Chartered Engineer's Certificate from IEI possesses the platform to practice as self-employed consultant in Engineering Profession in India and abroad. This certification provides value addition during the empanelment as Valuer, Loss Assessor with various Government bodies and Financial Institutions. Corporate Members are entitled to receive Chartered Engineer certificate on payment of requisite fee.

##### • **Registration as Professional Engineers**

Professional Engineer Certification enhances the knowledge, skill and competency of engineering professionals and also elevates their career by making them a member of an elite group of engineers. The rise in demand of competent engineers in the country necessitates the importance of Professional Engineers for certifying the engineering plans, drawings etc. for any public works of the government departments.

##### • **Professional development**

Facilitates IEI members to undertake various training programs at Engineering Staff College of India (ESCI), Hyderabad, through Continual Professional Development (CPD).

##### • **Peer Network**

Share your expertise, develop your knowledge and contacts and broaden your career and professional horizons by involving with IEI. The IEI has more than hundred centres in the major cities and towns around the country, ensuring that there is a community of members near you. Technical activities in your local area enable you to meet the fellow professionals and enjoy benefits of your network with your peers.

- **Knowledge resources**

Facilities to use rich collections of the IEI library networks at any part of the country. Attend National & International Seminars, workshops conducted by IEI in different parts of the country at a concessional rate. Opportunity to participate in technical events e.g. seminars, Symposia, Conventions, Workshops etc. organized by various IEI centres at State, National and International levels at a concessional rate of 20%.

- **Access to Technical Publications**

- ❖ E-access to IEI-Springer Journal and avail hardcopy of the same at a concessional rate.
- ❖ E-access to other technical publication e.g. IEI News, IEI Epitome.

- **Grants for Members**

IEI Members of various Educational Institutions are given preference in the disbursement of grant-in-Aid for R&D Activities.

- **Faculty Advisors**

| S.No. | NAME            | DESIGNATION         |
|-------|-----------------|---------------------|
| 1.    | Dr.Suman Mishra | Professor & HOD     |
| 2.    | Dr.S.Poongodi   | Branch Mentor       |
| 3.    | Mr.B.Papachary  | Associate Professor |

- **Student Office Bearers**

| S.No | Name                   | Designation    | Roll No.   |
|------|------------------------|----------------|------------|
| 1    | VAJINAPELLI NAGARAJU   | President      | 228R1A04C6 |
| 2    | VADLA VAISHNAVI        | Vice-President | 198R1A04C1 |
| 3    | BEERAM SAMESWARA REDDY | Secretary      | 228R1A0411 |
| 4    | SABBANI VARUN          | Treasurer      | 238R5A0413 |



## Organized Guest Lectures

**CMR ENGINEERING COLLEGE**  
UGC AUTONOMOUS  
Kandlakoya (V), Medchal Road, Hyderabad – 501401

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Guest Lecture on**  
**"Role of Electronics in future generation advanced instrumentation systems".**

**Resource Person:**  
**Dr. K.V.N.S.V.P.L. Narasimham**  
M.E., Ph.D.,  
Scientific Officer (G), National Centre For Computational Characterization of Materials (NCCCM) of Shri Krishna Atomic Research Establishment, Hyderabad

**Event Date & Time:**  
17 June 2023 10:00AM

**Venue:**  
Block -I Auditorium

**Organized by:**  
Dr. Ramesh Mishra, HOD, ECE Department

**Co-Organizers:**  
Dr. A. Srinivasulu Reddy, Principal; Sri Ch. Bhupala Reddy, Vice-Chancellor; Sri Ch. Srisailem Reddy, Secretary and coordinator



Dr.K.V.N.S.V.P.L. Narasimham, BARC Scientist, Hyderabad, delivered a guest lecture on **Role of Electronics in Future Generation Advanced Instrumentation Systems** to third-year ECE students on June 17, 2023, from 10:00 AM to 12:30 PM as part of the Guest Lecture Series.



Dr. G. PRASAD, Scientist “SG”, NRSC, ISRO, Hyderabad, delivered a guest lecture on “ADVANCES IN DIGITAL DESIGN AND ITS UTILIZATION IN SATELLITE GROUND STATION” to third-year ECE students on July 15, 2023, from 10:00 AM to 12:30 PM as part of the Guest Lecture Series.





## Organized Engineering Workshop





**CMR**  
EXPLORE TO INVENT



**CMR ENGINEERING COLLEGE**  
**UGC AUTONOMOUS**  
Kandlakoya (V), Medchal Road, Hyderabad – 501401



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**Organizing 5 Days Workshop**  
**on**  
**“Metaverse & VR”**



**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiative)



**Convenor:**  
**Dr. Suman Mishra**  
HOD, ECE Department

**Coordinators**  
**Dr. S. Rama Kishore Reddy**, Assoc. Prof.  
**Mrs. G. Kalpana**, Assoc. Prof.

**Chief Patrons**  
**Sri Ch. Narasimha Reddy**, Chairman  
**Sri Ch. Bhoopal Reddy**, Vice-Chairman  
**Sri Ch. Srisailem Reddy**, Secretary and Correspondent

**Patron**  
**Dr. A. Srinivasula Reddy**, Principal

**Resource Person:**  
**Mr. Satyam Mishra**  
PhD scholar in Marketing in Indian  
Institute of Management (IIM)  
Lucknow

**Event Date & Time**  
**3-7<sup>th</sup>**  
July-2023  
**10.00AM**


**Venue:**  
**B-401**  
**SIMULATION LAB-I**

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**Mr. Satyam Mishra**, Research Scholar, Indian Institute of Management, Lucknow, conducted a five-day workshop on “Metaverse and VR” for Second-year ECE students from **03-07-2023 to 07-07-2023** 10:00 AM to 04:00 PM.





**CMR ENGINEERING COLLEGE**  
UGC AUTONOMOUS  
Kandlakoya (V), Medchal Road, Hyderabad – 501401

College Code  
**CMRN**

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiative)

**Event Date & Time**  
**11-12<sup>th</sup>**  
August-2023  
**10.00AM**

**A Two Day Workshop**  
on  
**IoT & Robotics Applications**

by



**Resource Person:**  
**Dr. BKC Ganesh**  
CEO & Founder  
Print 3D Technologies,  
Tirupati

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**Consensor:**  
**Dr. Suman Mishra**  
HOD, ECE Department

**Coordinators**  
**Mr. Vaseem Ahmed Qureshi**, Assoc. Prof.  
**Mrs. G. Kalpana**, Assoc. Prof.

**Chief Patrons**  
**Sri Ch. Narasimha Reddy**  
Chairman  
**Dr. A. Srinivasula Reddy**  
Principal

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Principal

**Coordinators**  
**Mr. Vaseem Ahmed Qureshi**, Assoc. Prof.  
**Mrs. G. Kalpana**, Assoc. Prof.

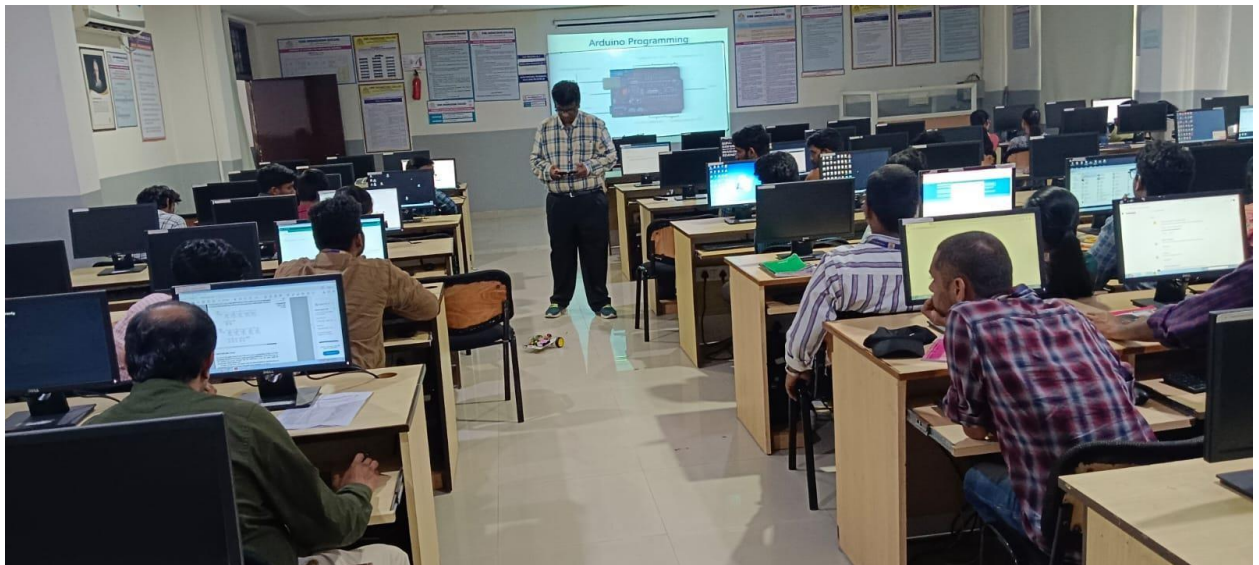
**Chief Patrons**  
**Sri Ch. Bhoopal Reddy**  
Vice-Chairman  
**Sri Ch. Srisaillam Reddy**  
Secretary and Correspondent

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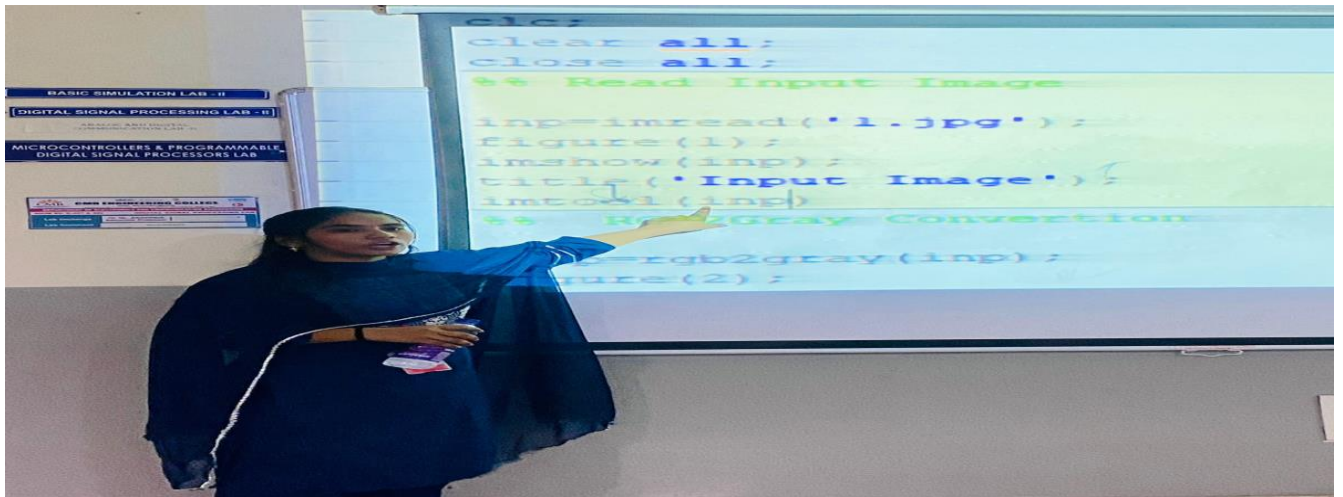
**Venue:**  
**B-401**  
**SIMULATION LAB-I**





Two days student workshop on “**IoT & Robotics Applications**” was presented by **Dr.B.K.C.Ganesh** CEO & Founder of Print 3D Technologies on 11<sup>th</sup> & 12<sup>th</sup> of August 2023 in Simulation Lab-1 of ECE department.







A workshop on **“Image Processing and Machine Learning with Mat lab”** presented by Lakshmi Vejandla Senior Project Engineer Pantech Solutions, On 14 December 2023 from 10:00 AM to 04:00 PM in Simulation Lab-1 of ECE Department. MATLAB is a powerful tool for image processing and machine learning. For image processing, you can use the Image Processing Toolbox, which provides functions for tasks like filtering, segmentation, and feature extraction. For machine learning, MATLAB offers the Machine Learning Toolbox. You can use it for tasks such as classification, regression, clustering, and more. The toolbox supports popular algorithms like SVM, decision trees, and neural networks.



## Organized Industrial Visits



The Department of Electronics and Communication Engineering, CMR Engineering College, organized one day Industrial visit to **NATIONAL REMOTE SENSING CENTRE(NRSC )**, **HYDERABAD** on **15<sup>TH</sup> NOVEMBER 2023** III<sup>RD</sup> year B Tech ECE students. Total **100** students of the **Third year** B Tech (ECE) along with Two faculty members have joined this industrial visit.



## Department of Electronics and Communication Engineering



### **CMR ENGINEERING COLLEGE** **UGC AUTONOMOUS**

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