

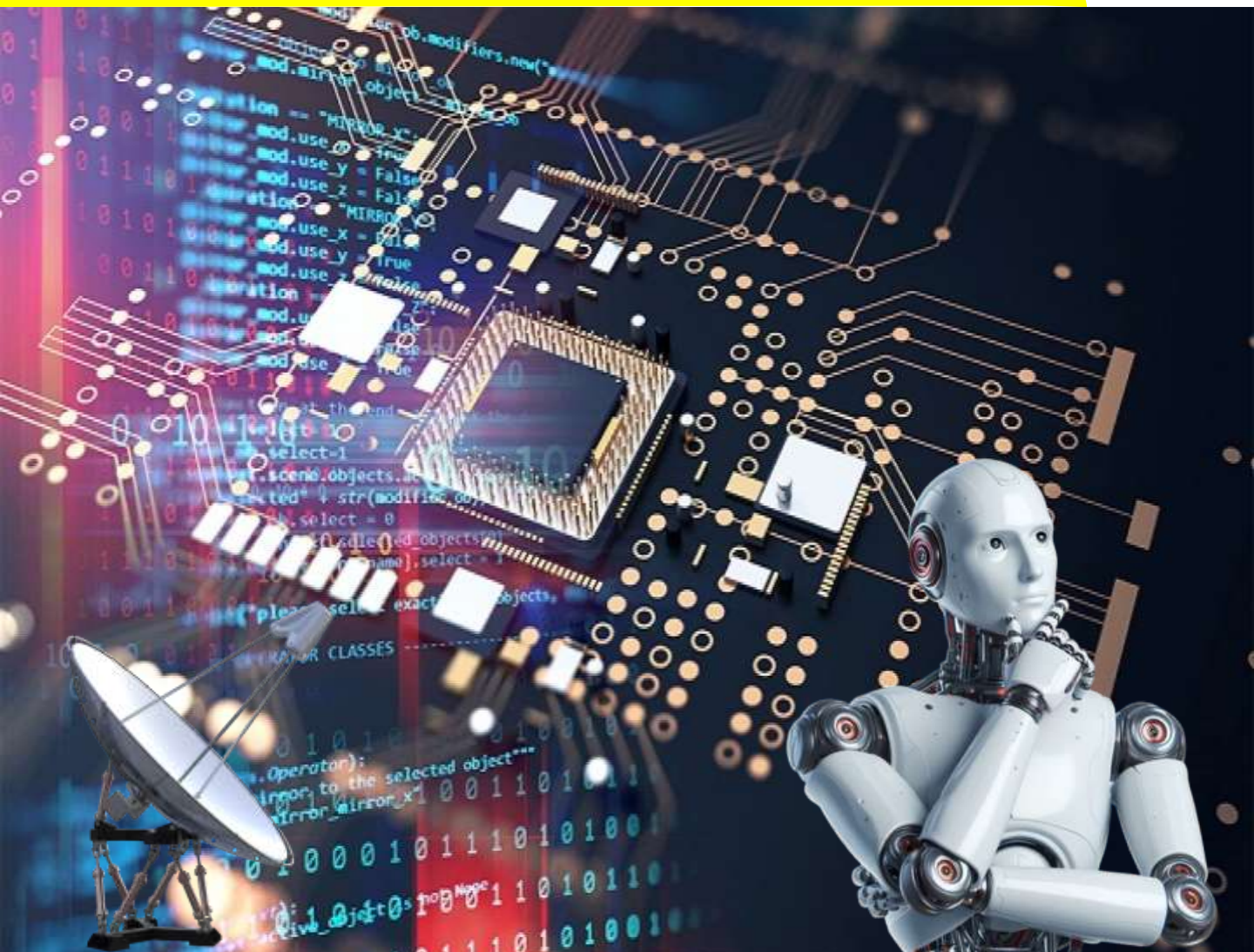
EMPOWERING THE FUTURE THROUGH ELECTRONICS

# ELECTROPULSE

NEWS LETTER

MAY, 2022-23

*Department of Electronics & Communication Engineering*



**MALLA REDDY ENGINEERING COLLEGE FOR WOMEN**

**Autonomous Institution – UGC, Govt. of India**

**Accredited by NAAC with 'A' Grade**

Programmes Accredited by NBA

National Ranking by NIRF Innovation - Rank band(151-300), MHRD, Govt. of India

Maisammaguda, Dhulapally, Secunderabad – 500 010, Telangana



## PREFACE



MRECW has achieved remarkable progress in various domains, reaching significant milestones within a short span of time. It is truly gratifying to learn that the students and faculty of the ECE Department are launching Volume 1 of the Newsletter for the Academic Year 2023-2024. This Newsletter aims to showcase the literary talents of students and teachers while fostering leadership skills among them. I am confident that this edition will inspire staff, students, and all those with a passion for education and literary pursuits.

**Ch. Malla Reddy**

Founder Chairman, MRGI  
Hon'ble Minister, Govt. of Telangana State



I extend my heartfelt congratulations to the Department of ECE, MRECW, for publishing the esteemed half-yearly departmental Newsletter for the Academic Year 2023-24. I am confident that this Newsletter will serve as an excellent platform for students and faculty to enhance their technical expertise, nurture their literary talents, and contribute to the holistic growth of the students. I believe this literary effort will inspire a love for reading and deepen the students' sense of connection to the institution. My sincere appreciation goes to the editorial board for their dedication in managing this challenging task. Best wishes for the continued success of this initiative.

**Dr. Y. Madhavee Latha**  
Principal



It is a matter of immense pride and satisfaction for the Department of ECE, MRECW, to present the half-yearly edition of the Newsletter for the Academic Year 2023-24. I am delighted to observe the overwhelming response it has received. The diverse range of articles is a testament to the creative potential and originality of our students and faculty. Each contribution stands out as engaging, thought-provoking, and captivating. I extend my heartfelt appreciation to all contributors for their insightful ideas and unique perspectives.

**Dr. K. Sudhakar**  
HOD

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**Editorial Board members**

- ◆ Dr. Y. Madhavee Latha,principal, chairperson
- ◆ Dr.Sudhakar K,HOD
- ◆ Dr.T.S.Gouse Basha, professor
- ◆ Ms.K.Sumalatha,Assistant professor

**DEPARTMENT VISION :** Our vision is to develop the department in to a full fledged Centre of learning in various fields of Electronics and Communication Engineering keeping in view the latest developments and to invoke enthusiasm among the Students to continually renew their education in rapidly developing technological scenario.

**DEPARTMENT MISSION :**Our mission is to inculcate a spirit of scientific temper and analytical thinking & train the students in contemporary technological trends in electronics and communication to meet the challenging needs of the industry by providing versatile sound knowledge in the field of engineering and technology

#### **PROGRAMME SPECIFIC OUTCOMES- PSO's:**

**PSO1:** The ability to analyze, design and implement application-specific electronic systems for complex engineering problems for analog, digital domain, communications, and signal processing applications by applying the knowledge of basic sciences, engineering mathematics, and engineering fundamentals.

**PSO2 :**The ability to adapt for rapid changes in tools and technology with an understanding of societal and ecological issues relevant to professional engineering practice through life-long learning.

**PSO3:** Excellent adaptability to function in a multi-disciplinary work environment, good interpersonal skills as a leader in a team in appreciation of professional ethics and societal responsibilities.

#### **Programmable Educational Objectives - PEOs**

##### **PEO1 - Professional Development**

To develop in the students the ability to acquire knowledge of Mathematics, Science & Engineering and apply it professionally within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability with due ethical responsibility.

##### **PEO2 - Core Proficiency**

To provide ability to identify, formulate, comprehend, analyze, design and solve engineering problems with hands on experience in various technologies using modern tools necessary for engineering practice to satisfy the needs of society and the industry.

##### **PEO3 - Technical Accomplishments**

To equip the students with the ability to design, simulate, experiment, analyze, optimize and interpret in their core applications through multi disciplinary concepts and contemporary learning to build them into industry ready graduates.

##### **PEO4 - Professionalism**

To provide training, exposure and awareness on importance of soft skills for better career and holistic personality development as well as professional attitude towards ethical issues, team work, responsibility, accountability, multidisciplinary approach and capability to relate engineering issues to broader social context.

#### **PEO5 - Learning Environment**

To provide students with an academic environment and make them aware of excellence, develop the urge of discovery, creativity, inventiveness, leadership, written ethical codes and guidelines and the life-long learning to become a successful professional in Electronics and Communication Engineering.

#### **Program Outcomes**

**PO1 Engineering knowledge:** An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and modeling

**PO2 Problem analysis :**An ability to design, simulate and conduct experiments, as well as to analyze and interpret data including hardware and software components.

**PO3 Design / development of solutions:**An ability to design a complex electronic system or process to meet desired specifications and needs.

#### **PO4 Conduct investigations of complex problems:**

An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

**PO5 Modern tool usage:** An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

**PO6 The engineer and society:** An understanding of professional, health, safety, legal, cultural and social responsibilities.

#### **PO7 Environment and sustainability:**

The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and demonstrate the knowledge need for sustainable development.

**PO8 Ethics:**Apply ethical principles, responsibility and norms of the engineering practice.

**PO9 Individual and team work:** An ability to function on multi-disciplinary teams.

**PO10 Communication:** An ability to function on multi-disciplinary teams.

**PO11 Project management and finance:** An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multi-disciplinary environments.

**PO12 Life-long learning:** A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.



**Events Organized by the ECE Department:**

S.NO	Date	Event Name
1	2-Aug-22	Go Green Plantation Programme
2	3-Aug-22	Outreach Programme organized by ECE department in Association with Department of Atomic Energy - Nuclear Fuel Complex, Govt. of India
3	15-Aug-22	75th Independence Day
4	13 Sept, 2022	Coursera Event Launch
5	30-Sep-22	Bathukamma Celebrations
6	22-Oct-22	Medha 2k22
7	31 Oct, 2022	B.Tech Orientation Day 2K22
8	7-Nov-22	Awareness Programme on Higher Education Abroad by Lawrence Tech University
9	03 Dec, 2022	SAARANG- 2K22 Cultural Fest
10	13 Dec, 2022	Personality Development Programme on Design Thinking by Motivational Speaker Sri Vijaya Saradhy
11	13-Dec-22	Musical Show by MRECWCultural Club
12	14 Dec, 2022	Inauguration of GLOBAL EDUCATION CELL (G -CELL) by shri Navin Mittal garu (IAS) Commissioner, Collegiate & Technical Education Government of Telangana
13	17-Dec-22	Sports Tech Trophy- 2022
14	27th, 28th Dec 2022	FDP on Effective Teaching Strategies & Methods
15	31-Dec-22	Success Celebrations of 2022 and Welcoming of New Year 2023
16	31-Dec-22	Project Expo from Innovation Center

### Students Achievements

- ❖ A total of **92 students** have been selected for **Accenture**
- ❖ A total of **77 students** have been selected for **Cognizant**.
- ❖ More than **150 course certifications** were done by the Students.
- ❖ Below is the list of **student Internships**, categorized by company:

S.NO	Company Name	No.of offers
1	CAPGEMINI	1
2	CISCO	1
3	Flipkart	1
4	BSNL	33
5	Mind tree	2
6	Unschool	1
7	Smart Internz	34
8	Mad Educators	9
9	Edugene Solutions Pvt, Ltd.	39
10	CISCO Virtual internship	129
11	COGNIZANT	140

### ❖ Students achievements in outside college events

S.No	Students	Fest Name/ Event Name	Dates of event	Position
1	C.Niharika,Ch.Sathvika, B.Geethika,A.Harshitha, Ch.Archana,Ch.Ravali from 2 <sup>nd</sup> year ECE	HACKATHON/ Smart India Hackathon at BIT Chattisgarh	22.08.22	2 <sup>nd</sup> with a cash prize of Rs. 75,000/-
2	B. DeviSree,B.Tejaswini, Ch.Shreshta,Ch.Meghana, Ch. Vaishnavi,B.Sravya from 2 <sup>nd</sup> year ECE	HACKATHON/ Smart India Hackathon at IIT Roorkee	25-29.08.22	One among Top 5 Projects
3	M.Deepika from 1st year ECE	Technical Quiz at MRCET,Hyderabad	26.11.22	3 <sup>rd</sup>
4	E.Alekhya,J.Akshatha from 4 <sup>th</sup> year ECE	VALIANT 22/ Mobile Blowup at AAA College of Engineering and Technology, Chennai	14-15.10.22	2 <sup>nd</sup>

**Faculty certifications:**

- ❖ Dr. Abudul Rahim awarded Ph.D in the month of June'2022
- ❖ Dr. Rakesh Kalluri awarded Ph.D in the month of May'2023
- ❖ Dr. K. Sudhakar completed NPTEL course on introduction to machine learning
- ❖ Dr. Tadimarri Shaik Basha completed NPTEL course on c programming & assembly language
- ❖ Mr. Srikanth Sirimalle completed NPTEL course on data science for engineers
- ❖ Mr. K. Raghavendra completed NPTEL Course on python for data science
- ❖ Ms. T. Swathi completed NPTEL course on python for data science
- ❖ Ms. Aruna Jyothi Muthyala completed NPTEL course on python for data science

**Faculty Publications:** Most of the Faculty published the research papers .

- Dr. L. Malliga published GSM Based Industrial Security System In Journal of Engineering Sciences(JES)
- Ms. CP. Bhargavi published IOT Based Parking System And Display On Mobile In Journal of Engineering Sciences(JES)
- Mr. P. Naresh Babu published Home Appliances Control Using Mobile Phone In Journal of Engineering Sciences(JES)
- Mr. P. Babu Rao published GSM Based Flammable Gas And Fire Accident Detection System In Journal of Engineering Sciences(JES)
- Dr. K. Sudhakar published Patient E-Health Monitoring System On Arm7- Lpc2148 Micro Controller And GSM In Parishodh Journal
- Dr. K. Sudhakar published A Robust Security Framework For Cloud- Based Logistics Services In Parishodh Journal
- Dr. K. Sudhakar published Weather Forecasting Monitoring Using IOT And ML In Parishodh Journal
- Dr. N. Sreekanth published Detection And Number Plate Recognition Using In Parishodh Journal
- Dr. Abdul Rahim published Implementation Of Green House Automation Using Arm7 Controller In Parishodh Journal
- Dr. Abdul Rahim published IOT Based Real-Time Water Quality Monitoring System Using Smart Sensors In Parishodh Journal
- Dr. Abdul Rahim published Forest Fire Detection System In Parishodh Journal
- Dr. Sathish Sundrarajan published Patient E-Health Monitoring System On Arm7- Lpc2148 Micro Controller And GSM In Parishodh Journal
- Dr. Sathish Sundrarajan published Cardiac Arrhythmia Prediction Using One-Dimension CNN In Parishodh Journal

- Mrs.K.Sumalatha published Monitoring Of Indian Agriculture Using Lpc2148 In Parishodh Journal
- Dr.SA Mary Rajee published Deep Learning Based Diabetic Retinopathy Diagnosis in Journal Of Cardiovascular
- D.Ramakrishna published A Wide-Ranging Study Of Retinal Vessel Classification Methods in Journal Of Northeastern University
- Dr.Abdul Rahim published Using Retinal Image Enhancement in Journal of Information and Telecommunication
- Mr.S. Srikanth published An Energy Efficiency Perceptive On MIMO OFDM Systems Using Hybrid Fruit Fly Based Salp Swarm Optimization Technique in Concurrency and Computation Practice and Experience-Wiley online library
- Dr.K. Sudhakar published Automatic Garbage Collection Intimation System Using IOT in International Journal For Advanced Research In Science & Technology
- Dr.S.M.P.Samy published Fingerprint Authentication System For Vehicle Using GPS And GSM in International Journal For Advanced Research In Science & Technology
- Dr.N.Jagadeesan published Vehicle Tracking And Alcohol Detector With Engine Locking System With GSM And GPS in International Journal For Recent Developments In Science & Technology
- Dr.Abdul Rahim published Vision Based Skin Disease Identification Using Deep Learning in Journal Of Applied Science And Computations
- Dr.Sathish Sundrarajan published IOT Based Fish Feeder Monitoring System in The International journal of analytical and experimental modal analysis
- Dr.Sathish Sundrarajan published Earth Observation For sustainable Development Of Forests (Eosd) in Journal Of Interdisciplinary Cycle Research
- Babu Rao published Military Security System For Identification Of Trespassers Using Ultrasonic Radars, Journal Of Interdisciplinary Cycle Research
- Mr. S. Srikanth published Sharing And Lightweight Cryptographic Algorithms in International Journal For Recent Developments In Science & Technology
- Mr.G.Harish Kumar published Bank Locker Security System With 2 Step Verification Using GSM And Neural Networks in International Journal of Advanced Research in science and technology

D



Faculty FDP/STTP/Webinars/Courses Attended By Faculty:

S.no	Name of the Faculty	Name of FDP/Traning/STTP	Start Date	End date	No.of Weeks
1	Dr.K.Sudhakar	NPTEL Course On Introduction To Machine Learning	03.07.2022	03.09.2022	8
2	Dr.N.Srikanth	One Week Fdp On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
3	Dr. Tadimarri Shaik Basha	NPTEL Course On C Programing & Assembly Language	12.07.2022	12.08.2022	4
4	Dr. Malliga Lakshman	One Week Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
5	Dr.Sathish Sundarrajan	One Week Fdp On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
6	Dr.N. Jagadeeshan	One Week Fdp On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
7	Dr. Samikkannu Rajkumar	One Week Fdp On Advanced Vlsi Systems Organized By MRECW	23.08.2022	27.08.2022	1
8	Dr.Rakesh Kolluri	One Week Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
9	Dr. Amalorpavamary Rajee Samuel	One Week Fdp On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
10	Dr.Sultan Mohammad Chowdary	One Week Fdp On Aiml Organized By MRCET	13.12.2022	19.12.2022	1
11	Dr.T R V Anandrajan	One Week Fdp On Aiml Organized By MRCET	13.12.2022	19.12.2022	1
12	Dr.Abdul Rahim	One Week Fdp On AIML Organized By MRCET	13.12.2022	19.12.2022	1
13	Ms.Sumalatha Kadire	One Week Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
14	Mr.G.Harish Kumar	One Week Nptel Course On Introduction To Machine Learning	03.07.2022	03.09.2022	8
15	Mr. D.Ramakrishna	One Week Fdp On Advanced Vlsi Systems Organized By MRECW	23.08.2022	27.08.2022	1
16	Mr. Srikanth Sirimalle	NPTEL Course On Data Science For Engineers	03.07.2022	03.09.2022	8
17	Mr.K.Raghavendra	NPTEL Course On Python For Data Science	12.07.2022	12.08.2022	4
18	Ms.Bhagyalakshmi Hasyapu	FDP On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
19	Ms.T.Swathi	NPTEL Course On Python For Data Science	12.07.2022	12.08.2022	4
20	Ms.Sivaparvathi Movva	One Week Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
21	Mr.Ch Venkateshwarulu	FDP On AIML Organized By MRCET	13.12.2022	19.12.2022	1

22	Ms. Navyasree Veerapaneni	Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
23	Mr. Naga Dasaradha Kamanuru	Fdp On Python Django Organized By CMREC	08.06.2022	13.06.2022	1
24	Mr. Satish Kumar Budhireddy	Fdp On Advanced Vlsi Systems Organized By MRECW	23.08.2022	27.08.2022	1
25	Ms. Aruna Jyothi Muthyala	NPTEL Course On Python For Data Science	12.07.2022	12.08.2022	4
26	Mr. Babu Rao Silumula	FDP On Advanced Vlsi Systems Organized By MRECW	23.08.2022	27.08.2022	1
27	Ms. Adilakshmi Grandhi	FDP On Advanced VLSI Systems Organized By MRECW	23.08.2022	27.08.2022	1
28	Ms. Bhargavi Arun Kulkarni	FDP On Advanced VLSI Systems Organized By MRECW	23.08.2022	27.08.2022	1
29	Mr. Ramarao Mannam	FDP On Advanced Vlsi Systems Organized By MRECW	23.08.2022	27.08.2022	1
30	Mr. V. Naga Mahesh	FDP On AI & Robotic Automation Process By KLU	12.09.2022	17.09.2022	1
31	Ms. G. Anusha	FDP On AI & Robotic Automation Process By KLU	12.09.2022	17.09.2022	1
32	Ms. Ramyakrishna Rajavolu	FDP On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
33	Ms. Kommula Sahithya	FDP On AI & Robotic Automation Process By KLU	12.09.2022	17.09.2022	1
34	Mr. Ranjith Reddy K	FDP On AI & Robotic Automation Process By KLU	12.09.2022	17.09.2022	1
35	Ms. M. Sruthi	FDP On AIML Organized By MRCET	13.12.2022	19.12.2022	1
36	Ms. Suprita	FDP On AI & Robotic Automation Process By KLU	12.09.2022	17.09.2022	1
37	Ms. B. Shilpa	FDP On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
38	Ms. Anusha Karanam	FDP On Amazon Web Services Organized By CMREC	22.08.2022	27.08.2022	1
39	Ms. P. Spandana	FDP On AIML Organized By MRCET	13.12.2022	19.12.2022	1

## Events: Photographs





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**EAMCET CODE MRCW**

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