

**ONE WEEK  
FACULTY DEVELOPMENT  
PROGRAMME ON**

**AI&ML**

**FOR ELECTRONICS AND ELECTRICAL  
DESIGN & AUTOMATION**

5<sup>th</sup> to 9<sup>th</sup> February, 2024

**REGISTRATION FORM**

Name: .....

Designation: .....

Department: .....

College: .....

Mobile: .....

Email: .....

Address for communication.....

.....

.....

**DECLARATION**

The information furnished in registration form is true to the best of my knowledge. I agree to abide by the rules and regulations governing by the course. If selected, I shall attend the course for entire duration, I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the course.

Place: \_\_\_\_\_ Date: \_\_\_\_\_

Signature of Faculty \_\_\_\_\_ Signature of Coordinator \_\_\_\_\_

**ONLINE REGISTRATION**

(Click below link)

<https://forms.gle/8M4dTDmsuVxQviLR9>

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Hon'ble MLA, Telangana State  
Founder Chairman, MRGI

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**Coordinators:**

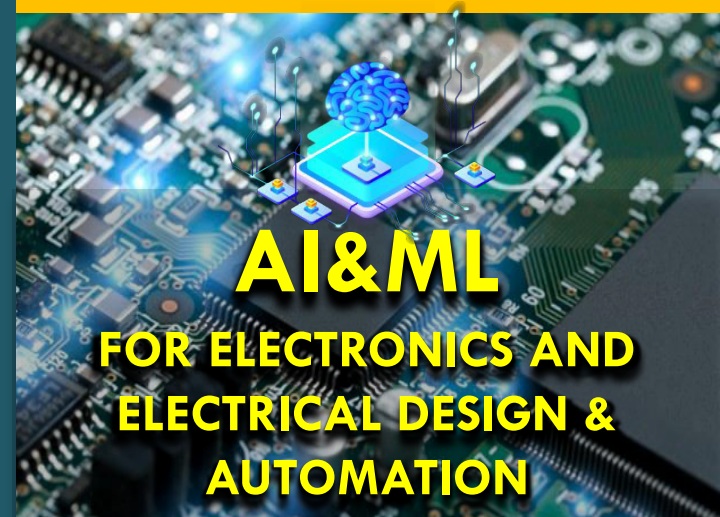
**Dr. K. SUDHAKAR**, HOD, Dept. of ECE  
**Dr. B. MADHUSUDHANA REDDY**, Dept. of E.E.E

**REGISTRATION FEE : Rs. 500/-**

**FREE FOR MRGI FACULTY**

Participation Certificates will be provided

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**Organized by**

**Departments of ECE & EEE**



**MALLA REDDY ENGINEERING  
COLLEGE FOR WOMEN**

**Autonomous Institution**

**Accredited by NBA & NAAC With 'A' Grade**

National Ranking by NIR-Innovation Rank band (151-300), MHRD, Govt. of India  
Maisammaguda, Dhulapally, Secunderabad-500 100



[www.mallareddyecw.com](http://www.mallareddyecw.com)



## ABOUT MRGI

Situated away from raucous sounds of Hyderabad city, MRGI epitomizes technocracy at its best. Being one of the largest campuses in Telangana State, MRGI promises eventful student-oriented learning. The founder chairman Sri.Ch.Malla Reddy began the journey as an educationalist to form the bridge between society, industry and academics. He is an unassuming dynamic leader with a keen interest in changing trends of higher education and student's employability in India & abroad. The diverse and enormous growth of the group unravels his realistic vision to cater to the needs of students in all the areas of education. Education at MRGI brings all round and holistic development in students. Today MRGI has become a major learning centre with 35 institutions offering Engineering, Medical, Management, MCA and Pharmacy courses.

## ABOUT MRECW

Malla Reddy Engineering College for Women (Autonomous Institution, UGC, Govt. of India) is approved by AICTE, New Delhi and affiliated to JNT University, Hyderabad. The college has UGC Autonomous Status by Govt. of India, Accredited by NBA, Accredited by NAAC with 'A' grade, Ranked by NIRF Innovation Ranking (Band 151-300), Accepted by MHRD, Govt. of India, ISO 9001:2015 certified, Affiliated to JNTUH, 2(f) & 12(B) Recognized by UGC, AAAA Rated by Careers 360 Magazine, AAAA+ Rated by Digital Learning Magazine, 51 Ranked Nationwide by TIMES News Magazine, Ranked Nationwide Top 132 by India Today, Ranked as Top Engineering Colleges of Eminence in India 2023-CSR Ranking, Platinum Rated by AICTE-CII Industry Linked Institutes Survey, Ranked 48<sup>th</sup> (Private) and Ranked 56<sup>th</sup> (Govt.) for Top T-Schools in India 2023 by DATAQUEST, Recipient of College of the Year-2019 Award" from Education Matters, "College of the Year-2017 Award" from Silicon India Education, " Best Engineering College in Telangana & A.P. Award" from International Education Awards, Time Cyber Media Pvt. Ltd., "Education Leadership Award" from Dewang Mehta National Education Awards & "Engineering Educators Award" from University of Bradford, U.K. Top 10 Women Colleges in India-2022 by Women Entrepreneur India Magazine. Organized **Seven (8) International Conferences** for four departments in series from 2014.

The college offers B.Tech Programmes in CSE, CSE-AI&ML, CSE-Data Science, CSE-Cyber Security, CSE-IOT, IT, CSIT, ECE and EEE, M.Tech Programmes in Embedded Systems, Computer Science Engineering & MBA and has a strong vision of offering world class training to the promising engineers. 100% of the faculty members are ratified by JNTU Hyderabad. MRECW emphasizes on Application Oriented Teaching & Problem Based Solving. Since the establishment of the college, it is known for academic excellence. The College offers pre placement training program, e-learning, e-Training & e Assessment in collaboration with Time Institute, Training & Assessment through Code Tantra and Reference Globe, career connect and industry connect programs. College offering 100% Placements and students are placed in reputed MNCs like CISCO, Accenture, HSBC, Apps Associates, Cap Gemini, IBM, NTT Data, Cognizant, Wipro, TCS, Infogain, CGI, CYIENT, Mphasis, Infosys, Amazon & Genpact, with 6 to 8 offer letters for many.

For the better prospects, the college offers training to students for Prestigious Certifications like CISCO Networking Academy, Robotics-Centre of Excellence, Business English Certification (in association with Cambridge University, London, U.K.) through Center for Development of Communication Skills within the College Campus and also offers Innovative Product Development, project based training programs for I, II, III & IV year students in their fields of interest. College initiates and organizes International and National Conferences in association with Scopus Indexed journals, Workshops and Refresher courses in the different Engineering disciplines to upgrade the knowledge of the faculty members.

The faculty of the institution have completed and are also undertaking many more Research and funding projects. MRECW is always in the forefront in organizing workshops on latest technologies like Robotics, IOT, Block Chain Technology, R-Programming, Cloud Computing, Python, Android, Cadence Tools, MATLAB and Multisim to fill the gap between the Industry and Academia. The college has established Institution Innovation Council under MHRD and is member of J-Hub under JNTUH. Through these, in association with Entrepreneurship Development Cell, the College organizes and promotes Hackathon programmes for which our students have been selected as Top innovators and their products selected as Top Innovative products. The College also has an actively functioning Technology Business Incubation Centre for handholding startups till success. Students established IEEE, IETE, ISTE Student chapters and *Technical Associations* in each department under which they organize National and State Level Technical Symposia, Technical Quiz, Debate Competition, Group Discussion and Mock interviews etc. to improve their technical skills and soft skills. Here is the place where we mould students into industry ready engineers by providing leadership development, mentoring in technical education and empowering our young women to be the architects of change in the world of technology. We also strive to inculcate human values, ethics, and respect for tradition along with lot of emphasis on decency, dignity and life skills to meet the challenges of the world.

## ABOUT FDP

In today's dynamic technological landscape, the integration of artificial intelligence (AI) with Electrical and Electronics Design Automation (EDA) is revolutionizing the way electronic systems are conceptualized, designed, and optimized.

## OBJECTIVES

- Empower faculty with advanced skills leveraging AI & ML for enhanced design optimization.
- Transforming design processes through the strategic integration of AI & ML methods for optimal outcomes.
- Aiming to enhance skills, foster innovation, and advance automation in design processes.

## OUTCOMES

- Armed with practical skills, ethical considerations, and insights into current industry trends.
- Empowering educators and researchers to integrate AI principles into their teaching methodologies.
- Contribution to the advancement of intelligent electrical and electronic systems

## Topics to be Covered:

- Use of Machine Level Programming in Electronic Design Automation(EDA).
- AI based Automatic code generation for embedded systems.
- Deep Learning for Image Processing in Electronics inspection.
- Automated PCB Layout Design using AI
- Machine Learning for Fault Detection in Electronic Systems
- Evolutionary Algorithms in RF (Radio Frequency) Circuit Design
- AI-Assisted Thermal Management in Electric Vehicles
- Genetic Algorithms in Electronic System-Level Design
- Neural Networks for Power Electronics Control
- AI-Driven Energy Management Systems

## Hands on Sessions during Afternoon

## RESOURCE PERSONS

**Eminent Speakers and Subject experts  
from reputed Universities & Industries**

**Venue: Mini Auditorium, Einstein Block, MRECW**