

INNOVATING THE DIGITAL FRONTIER

TECHNOVA

NEWS LETTER

MAY, 2024

Department of Computer Science and Engineering



MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

Autonomous Institution – UGC, Govt. of India

Accredited by NAAC with 'A+ Grade

Programmes Accredited by NBA

Maisammaguda, Dhulapally, Secunderabad – 500 010, Telangana





Ch. Malla Reddy

Founder Chairman, MRGI
Hon'ble MLA,
Govt of Telangana State

FOUNDER CHAIRMAN'S MESSAGE

I congratulate the department of CSE, MRECW for bringing out the issue of the prestigious yearly department **TECHNOVA** Newsletter under A.Y: 2023-24, I am sure that the magazine will provide a platform to the students and faculty members to expand their technical knowledge and sharpen their hidden literary talent and will also strengthen the all round development of the students. I am hopeful that this small piece of literary work shall not only develop the taste for reading among students but also develop a sense of belonging to the institution as well. My congratulations to the editorial board who took the responsibility for the arduous task most effectively. I extend best wishes for the success of this endeavor.

PRINCIPAL'S MESSAGE

I extend my heartfelt congratulations to the Department of CSE, MRECW, for bringing out the esteemed **TECHNOVA** Newsletter for the academic year 2023-24. This newsletter serves as an excellent platform for both students and faculty members to enhance their technical knowledge and discover their hidden literary talents. It will undoubtedly contribute to the overall development of our students. I am confident that this initiative will not only foster a love for reading but also cultivate a deeper sense of pride and belonging within our institution. My sincere appreciation goes to the editorial board for their dedication and effective execution of this challenging task. Wishing all the best for the continued success of this valuable endeavor.



Dr. Y. Madhavee Latha

Principal

HOD'S MESSAGE

It is an occasion of great pride and satisfaction for the department CSE, MRECW to bring out the issue of the yearly department **TECHNOVA** Newsletter under A.Y:2023-24, it gives me immense pleasure to note that the response to the magazine has been over whelming. The wide spectrum of articles gives us a sense of pride that our students and faculties possess creative potential and original thinking in ample measures. Each article is entertaining interesting and absorbing. I applaud the contributors for their stimulated thoughts and varied hues in articles contributed by them.



Dr. Y. Geetha Reddy

HOD-CSE



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ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering (CSE) at Malla Reddy Engineering College for Women offers a B.Tech program with an intake of 660 students, along with M.Tech programs in Computer Science and Engineering. The department is committed to ensuring that students meet the highest industry standards through its comprehensive academic programs. Equipped with state-of-the-art infrastructure, the department features well-equipped laboratories with the latest hardware and software. Specialized labs for programming, networking, and project development further enhance the learning experience. Research and development are key priorities, and both students and faculty are encouraged to engage in research projects, attend conferences, and publish their findings. Strong ties with the industry are maintained through collaborations, internships, workshops, and guest lectures. These partnerships provide students with practical exposure and keep them updated on industry trends. The department also fosters student involvement by establishing student chapters of prestigious organizations such as CSI, IEEE, and ISTE. Under these chapters, the department organizes national and state-level technical symposiums, including *Future Sastra* and *Medha*, as well as various student development programs. To enhance both technical and soft skills, the department organizes activities such as coding competitions, hackathons, seminars, and technical clubs.

A dedicated placement cell works actively to secure job opportunities for students in reputed companies, offering placement drives, training sessions, and career guidance to ensure students are industry-ready. The department also offers various certification programs, including IBM-Cognitive, TCS-IoN, Coursera, NASSCOM, Oxford Achievers Certification (in collaboration with Oxford University Press, India), Cambridge C1 Level Certification (in association with Cambridge University), Microsoft, Cisco, and Oracle certifications. These are provided through partnerships with leading organizations such as the Center for Development of Communication Skills, Microsoft Innovation Center among others. Additionally, the department offers project-based training for students in their areas of interest across all years of study. The department is also committed to faculty development, organizing international and national conferences, workshops, and refresher courses on new technological disciplines. Many faculty members have received patents, awards, and have published books and numerous papers in reputed international/national journals and conferences. In summary, the Department of CSE at Malla Reddy Engineering College for Women is dedicated to producing competent professionals who can make valuable contributions to the field of technology.

Editorial Board

Dr. Y. Madhavee Latha, Principal, Chairperson.
Dr. G. Kalpana, Associate Professor

Dr. Y. Geetha Reddy, HOD
Ms. A. Radha rani, Assistant Professor



Vision

- To produce globally competent professionals in the field of Computer Science and Engineering.
- To attain academic and research excellence in advanced technologies of Computer Science and Engineering by promoting a creative environment for learning and innovation.

Mission

- To impart holistic technical education using the best of infrastructure, outstanding technical and teaching expertise, training students into competent and confident engineers with excellent communication skills, to face the global challenges of the future technological advancements.
- To evolve into centre of excellence of computer science and engineering through creative and innovative practices in teaching-learning, promoting academic excellence to produce world class professionals, making the students psychologically strong and emotionally balanced with social consciousness, ethical values and trans-disciplinary research capabilities.

Programmable Educational Objectives - PEOs

PEO1 - Professional Enhancement

Provide the students with strong fundamental and advanced knowledge in Mathematics, Science and Engineering with respect to Computer Science and Engineering discipline with an emphasis to solve Engineering problems.

PEO2 - Core Competence

Prepare the students through well - designed curriculum to excel in various programmes in Computer Science and Engineering, to meet the needs of the industry and for higher education pursuit.

PEO3 - Technical Accomplishments

Train the students with intensive and extensive engineering knowledge and skill to analyze, design and create novel products and solutions in the field of Computer Science and Engineering.

PEO4 - Professionalism

To inculcate in students professional attitude, multidisciplinary approach, ethics, team work, communication, ability to relate computer engineering issues with societal needs and contribute towards nation building.

PEO5 - Learning Environment

To provide students with an academic environment that inculcates the spirit of excellence, creativity, innovation, leadership, lifelong learning, ethical codes and guidelines to become a successful professional in Computer Science and Engineering.

Program Specific Outcomes – PSOs

- **PSO1** - The ability to analyse, design, code and test application specific or complex engineering problems in Cryptography and Network Security, Design and Analysis of Algorithm, Computer Networks, Data Mining, Cloud Computing, Mobile Computing, Cloud Computing, Internet of Things (IoT), Data Science, Artificial Intelligence, Machine Learning, Cyber Security, Block chain Technology, and Big Data 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 multi-disciplinary work environment, good interpersonal skills as a leader in a team, in appreciation of professional ethics and societal responsibilities.



Student chapter events organized for the A.Y 2023-24

- ❑ **CSI** organized the "FutureSastra-2K24 (Technical Symposium)" on February 16 & 17, 2024. The activities included Py Warrior, JAVA GURU, Web Hunter, C-Cracker, Appify, ErrEpic, DstructNode, Infographics, and Cyber Siege. The event had 362 participants and was held at the national level.
- ❑ **IEEE** organized the "FutureSastra-2K24 (Technical Symposium)" on February 16 & 17, 2024. The activities included Young Engineer, TrailBlazer, Technova, Project Expo, Business Plan, and Product Launch. The event had 183 participants and was held at the national level.
- ❑ **ISTE** organized the "FutureSastra-2K24 (Technical Symposium)" on February 16 & 17, 2024. The activities included Crack Interview, Business Quiz, ACE the Speech, Logic Mantra, Technical Quiz, and Master of English. The event had 156 participants and was held at the national level.
- ❑ **IEEE** organized the "Medha-2K23 (Technical Symposium)" on September 15 & 16, 2023. The activities included Young Engineer, Idea Presentation, Project Expo, and Technical PowerPoint Presentation. The event had 422 participants and was held at the state level.
- ❑ **ISTE** organized the "Medha-2K23 (Technical Symposium)" on September 15 & 16, 2023. The activities included Mock Interview, Best Spouter, Logic Mantra, General Quiz, and Master of English. The event had 320 participants and was held at the state level.
- ❑ **CSI** organized the "Medha-2K23 (Technical Symposium)" on September 15 & 16, 2023. The activities included Py Warrior, JAVA Guru, Empiric of Data, and C-Quiz. The event had 180 participants and was held at the state level.





Coding Contests and Hackathons conducted for A.Y 2023-24

- ❑ **IEEE** organized the "Intra College Hackathon (II B.Tech)" on March 16, 2024. The event had 20 teams and was held at the institute level.
- ❑ **IEEE** organized the "MSME Hackathon 3.0 (Internal)" on July 7, 2023. The event had 18 teams and was held at the institute level.
- ❑ **IEEE** organized the "Smart India Hackathon - 2023 (Internal)" on September 21, 2023. The event had 16 teams and was held at the institute level.
- ❑ **CSI** organized the "Coding Challenge" on September 23, 2023. The event had 40 teams and was held at the state level.
- ❑ **ISTE** organized the "Idea Presentation – III Year" on September 30, 2023. The event had 52 teams and was held at the institute level.
- ❑ **ISTE** organized the "Ideathon for II Year Students" on August 16, 2023. The event had 48 teams and was held at the institute level.
- ❑ **ISTE** organized the "Idea Presentation" on August 5, 2023. The event had 12 teams and was held at the institute level.

IDEA PRESENTATION



SAMRT INDIA HACKATHON(INTERNAL)-2023



Webinars conducted for Academic Year 2023-24

- ❑ **IEEE** organized a webinar on "LINUX Implementation" on December 23, 2023. The event had 126 participants and was held at the institute level.
- ❑ **ISTE** organized a webinar on "Interview Skills" on August 22, 2023. The event had 104 participants and was held at the institute level.
- ❑ **ISTE** organized a webinar on "Resume Writing" on September 9, 2023. The event had 115 participants and was held at the institute level.



Guest Lectures conducted for Academic Year 2023-24

- ❑ CSI organized a guest lecture on "Fundamentals of AI & ML" on March 16, 2024. The event had 113 participants and was held at the institute level.
- ❑ CSI organized a guest lecture on "Artificial Intelligence & Methodologies" on February 9, 2024. The event had 103 participants and was held at the institute level.
- ❑ CSI organized a guest lecture on "Artificial Intelligence & Machine Learning" on February 8, 2024. The event had 98 participants and was held at the institute level.
- ❑ CSI organized a tech talk on "AI/ML and Data Science Role in BFSI Industry" on October 10, 2023. The event had 120 participants and was held at the institute level.
- ❑ IEEE organized a guest lecture on "The Bridge: Graduate Skills vs. Firm Expected Skills" on October 7, 2023. The event had 114 participants and was held at the institute level.
- ❑ CSI organized a guest lecture on "Emerging Trends in the IT Industry" on September 30, 2023. The event had 127 participants and was held at the institute level.
- ❑ ISTE organized a guest lecture on "Idea Generation, BMC & Business Plan" on August 30, 2023. The event had 105 participants and was held at the institute level.

TECH TALK ON AIML, DATA SCIENCE





Workshops conducted for Academic Year 2023-24

- ❑ CSI organized a two-day workshop on "Full Stack & Mern Stack Development" on February 12-13, 2024. The event had 113 participants and was held at the institute level.
- ❑ CSI organized a four-day workshop on "Cybersecurity & Ethical Hacking" from October 10-13, 2023. The event had 115 participants and was held at the institute level.
- ❑ CSI organized a three-day workshop on "ML using Deep Learning" from August 24-26, 2023. The event had 104 participants and was held at the institute level.
- ❑ CSI organized a three-day workshop on "AI for Data Science" from August 24-26, 2023. The event had 116 participants and was held at the institute level.
- ❑ IEEE organized a three-day hands-on session on "GUI Development" from July 18-22, 2023. The event had 110 participants and was held at the institute level.
- ❑ CSI organized a two-day workshop on "NEP 2020 - Effective Implementation of NEP 2020" on June 23-24, 2023. The event had 90 participants and was held at the institute level.



Industrial Visits for Academic Year 2023-24

- ❑ WE HUB - Women Entrepreneurs Hub in Jubilee Hills, Hyderabad on 9th February 2024.
- ❑ Visited TCS in Hyderabad on 13th December 2023.
- ❑ National Remote Sensing Centre - ISRO in Jeedimetla, Hyderabad on 19th October 2023.
- ❑ ALEAP Women Entrepreneurs Hub in Pragathi Nagar, Hyderabad, 22nd September 2023.





NSS Activities organized for the year A.Y 2023-2024

- ❑ **3rd August 2023:** GO Green 2K23 Plantation Programme.
- ❑ **30th September 2023:** Medical & Dental Camp, Anti-Plastic Awareness Programme at Gundla Pochampally.
- ❑ **28th October 2023:** Awareness Program on Computer Education for ZPHS School Students, Gundlapochampally village.
- ❑ **11th November 2023:** Multiple awareness programs at Indiramma Colony:
 - Educating people on Women's Rights (Constitutional & Legal).
 - Women's Self-Defense awareness.
 - Nutrition and Food awareness.
 - Women's Health Issues (PCOD/PCO) awareness.
- ❑ **14th December 2023:** Awareness on E-Resources for School Children at ZPHS, Gundla Pochampally.
- ❑ **4th January 2024:** Dental camp at Indiramma Colony.
- ❑ **12th January 2024:** National Youth Day celebrations.
- ❑ **28th January 2024:** Meditation Programme for B.Tech III Year Students by Heartfulness Institution.
- ❑ **3rd February 2024:** Multiple awareness programs:
 - Water Conservation at Indiramma Colony.
 - Digital Awareness on Gpay & Phone Pay at Gundla Pochampally.
 - Consumer Rights Awareness at Gundla Pochampally.
 - Educational Awareness for Girls at ZPHS, Gundla Pochampally.
- ❑ **11th February 2024:** Meditation Programme for B.Tech I Year Students by Heartfulness Institution.
- ❑ **15th February 2024:** Wonder Women 5K Run.
- ❑ **2nd March 2024:** Awareness Programme on Communication & Soft Skills for School Children.





Cultural and Sports Events of A.Y 2023-24

- ❑ **Esperanza (Interaction Day) - 10th May 2024**
- ❑ **Musical Show (By Janusha Reddy) - 3rd May 2024**
- ❑ **Holi Celebrations 2k24 - 25th March 2024**
- ❑ **Nexplora-2k24 (Cultural Fest) - 24th February 2024**
- ❑ **Tarang-2k24 (State Level Cultural Fest) - 17th Feb 2024**
- ❑ **Rangoli Competition - 25th January 2024**
- ❑ **Sankranthi Celebrations - 12th January 2024**
- ❑ **New Year Celebrations - 30th December 2023**
- ❑ **Flash Mob - 25th November 2023**
- ❑ **Comedy Competition - 11th November 2023**
- ❑ **Singing Competition - 4th November 2023**
- ❑ **Fashion Show Competition - 4th November 2023**
- ❑ **Classical Dance Competition - 4th November 2023**
- ❑ **Sportech 2k23 - 18th Nov 2023**
- ❑ **Bathukamma Celebrations - 19th October 2023**
- ❑ **Photography Competition - 18th October 2023**
- ❑ **Joyful Jamboree (Musical Show) - 7th October 2023**
- ❑ **Esperanza (Interaction Day) - 23rd September 2023**
- ❑ **SaReGaMaPa (By Singer Teja) - 30th September 2023**
- ❑ **Musical Show By Arun Koundinya - 25th Aug 2023**
- ❑ **Musical Show By Arun Koundinya - 17th June 2023**



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MREC SPORTS CLUB PRESENTS

SPORTS TECH - 2023

INTRA COLLEGE SPORTS MEET

18th November, 2023

EVENTS

Throw Ball | Basket Ball | Table Tennis | Kabaddi | Cricket | Long Jump | 100 Mts. - Running | Shot put | Kho-Kho

Chief Patron: Sri. Ch. Malla Reddy Hon'ble Minister, Govt of Telangana State Founder Chairman, MRGI	Patrons: Sri. Ch. Mahender Reddy Secretary, MRGI Dr. Ch. Bhadrani Reddy President, MRGI	Convener: Dr. Y. Madhaveswara Latha Principal	Co-Convener: Dr. K. Sudhakar	Faculty Coordinators: Mr. B. Chavan Mr. S. Venkata Ramana Mr. S. Prasad Mr. V. Naveen Mr. K. Naveen Babu Mr. K. Devidhar	Physical Directors: Mr. K. Sarath Reddy Mr. D.K. Sharma Ms. P. Prasadharini Ms. S. Malleswari Ms. S. Saritha
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Students Achievements for A.Y 2023-24

- ✦ Won the first & third prize for IMMERSETCH, AR-VR HACKATHON at JTBI, JNTU Hyderabad.
- ✦ 135 teams got paper publications in various Conferences and Journal's.
- ✦ 232 of 2020-24 batch students got successfully placed in various reputed companies.

Company Name	No. of Students Placed	Package (in Lakhs)
Accenture	129	4.5
Accenture	5	6.1
Amazon	9	4
Capgemini	37	4
Cognizant	9	4
Cisco	1	17.5
Infosys	7	9.5
KPIT	21	4.5
Publicis Sapiant	2	4.5
Qualizeal	1	4
TCS	2	7
Tech Mahindra	2	4
Total Students Placed: 225		





Summary of Student Participations

Event Name	No. of Participations
Student Publications	162
Outside the State - Participations	36
Outside the State - Winners	19
With in the State - Participations	76
With in the State - Winners	32
Hackathons Participations	343
Coding Challenges Participations	752
Workshops Participations	309
Webinars Participations	553
Total Awards / Merits / Appreciations /Participations	2282



Internships

Name of the Company	No. of Students
Bharath Intern	5
Cloud Vision Technologies	2
Code Soft	5
Code Speedy	4
Coding Raja Internships	1
Cypherbyte Technologies	1
Dev Skill Hub	1
Devtern Tech	1
Ei Systems	53
Grantley	1
Infosys	1
Innovate Intern	11
Jmedia Corporation	1
KPIT	21
Main Flow Services And Technology	4
Motion Cut	3
Next24 Technology And Services	148
Oasis Infobyte	3
Octanet	1
Plasmid	1
Skillsavvy	1
Swecha	2
Technocolabs Softwares	1
The Black Pearls	3
The Forage (PWC)	2
Trainity	1
Total	278



Faculty Development Programmes for A.Y 2023-24

- ❑ Faculty Development Program (FDP) on Effective Implementation of NEP 2020 - Held on 23rd & 24th June 2023, organized by MRECW, led by Dr. D.B.K. Kamesh.
- ❑ Faculty Development Program (FDP) on Blockchain in Edge and Cloud Computing - Scheduled for 5th to 9th February 2024, organized by MRECW, with Dr. Y. Geetha Reddy as the faculty organizer.
- ❑ Faculty Development Program (FDP) on Generative AI for Data Analytics - Scheduled for 5th to 9th February 2024, organized by MRECW, with Dr. G. Kalpana leading the event.
- ❑ Faculty Development Program (FDP) on Wireless Networks - Happening from 12th to 16th February 2024, organized by NITTR in collaboration with MRECW, under the guidance of B.V.S.P Kumar.
- ❑ Faculty Development Program (FDP) on AIML and Data Science for Industry 4.0 (Advanced Level) - Set for 26th February to 1st March 2024, organized by NITTR in collaboration with MRECW, with Dr. K.V. Naganjaneyulu as the faculty organizer.
- ❑ Faculty Development Program (FDP) on Machine Learning Using Python - Scheduled for 19th to 23rd February 2024, organized by NITTR in collaboration with MRECW, led by Dr. Vishnu Kumar Mishra.

Faculty Achievements for A.Y 2023-24

- ✧ In the academic year 2023-24, faculty members achieved notable success with a total of 261 research publications, including 191 in UGC journals and 70 in prestigious SCOPUS/WOS/ SCI/Springer journals.
- ✧ In addition to their journal publications, faculty members also contributed significantly to academic literature, publishing 66 books and book chapters in the academic year 2023-24.
- ✧ Furthermore, faculty members demonstrated innovation by securing 3 patents in the academic year 2023-24, highlighting their contributions to research and development.
 - Dr. T Ram Kumar created a driver drowsiness detection device powered by AI to help prevent accidents (Patent published on 22-08-2023).
 - Ms. Srilavanya Sajja designed a Black Widow Optimization Algorithm for detecting brain tumors using magnetic resonance imaging (MRI) segmentation (Patent published on 31-05-2024).
 - Ms. Somashekhar Sanjeevini developed an AI-based device to predict heart diseases (Patent published on 04-11-2023).
- ✧ Consultancy Projects:
 - Budget Bot: A project funded by EDUGENE Hyderabad, with a total funding of ₹265,000.
 - Securing Autonomous: Project funded by D-CODE TECH, with a total funding of ₹335,000.

TECHNOVA



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