CONNECTING TECHNOLOGY WITH VISION

iNFOCONNECT

NEWS LETTER

MAY, 2024

Department of Information Technology

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 IT, MRECW for bringing out the issue of the prestigious yearly department **iNFOCONNECT** 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 IT, MRECW, for bringing out the esteemed **iNFOCONNECT** 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 IT, MRECW to bring out the issue of the yearly department **iNFOCONNECT** 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. M.Vanitha
HOD-IT

ABOUT THE DEPARTMENT

The Dept. of IT with an intake of 60 in B.Tech Programme The programmes ensure that the student effectively meets the highest benchmarks of competence required by the industry.

The Dept has state of the art laboratories with latest softwares like Windows 2008, Visual Studio 2012, Ecllipse, WinRunner, QTP, J2EE, .NET, Fedora &Weka Tool. The Dept established IEEE & ISTE student chapters and Dept. Technical Association-CYNOSURES under which it organizes National level Technical Symposium - FUTURE SASTRA and State level Technical Symposium MEDHA every academic year and Student Development Programmes like Workshop on Web Designing, Android & its Application, ADOBE PhotoShop, thical Hacking and HTML5.

The Department also organizes Pre-placement training programmes on C-Skills, Java Skills and Project Based training programmes on C, C++, JAVA and Web Technologies and also organizes Intra College Student Conferences on Network Security and Data Base Management Systems and Recent Advancements in Computer Science and also organizes regular student seminar sessions of two hours per week for I - IV B.Tech student to enhance their all round performance.

To provide value added certification courses to students, The Dept. established Micro Soft Innovation Center which offers Micro Soft Certification, CISCO Networking Academy which offers CISCO Certification and in association with ORACLE Corporation, India, It offers Java Certification. The Dept. also offers Business English Certification (BEC) with the help of Center for Development of Communication Skills.

Editorial Board:

Dr. Y. MadhaveeLatha, Principal, Chairperson.
Dr. M.Vanitha, HOD
Dr.V. Pradeep, Assoc. Professor
Ms.B.Haritha Lakshmi,Assistant Professor

Vision

o To empower women in the field of Information Technology through quality education, nurturing them into globally competent professionals with strong technical skills, ethical values, and leadership qualities, ready to meet the challenges of the evolving IT industry.

Mission

o **M1:** To offer a high quality education that integrates cutting-edge technologies, nurtures creativity and analytical skills, and shapes ethical, globally competitive professionals.

o **M2:** To develop leadership qualities and enhance employability through hands-on training, industry collaboration, and research in emerging technologies, preparing women to address the dynamic challenges of the IT sector.

o **M3:** To impart technological education with a strong emphasis on dignity, decency and discipline to develop professional engineers who are both technically component and socially responsible.

Programmable Educational Objectives - PEOs

PEO1 - Technical Proficiency and Innovation
Graduates will develop a solid foundation in Information Technology, employing modern tools and innovative methodologies to effectively solve industry challenges.

PEO2 - Leadership and Professional Excellence
Graduates will demonstrate leadership abilities, effective teamwork, and ethical practices, enabling them to achieve career success and contribute to the global IT sector.

PEO3 - Lifelong Learning and Societal Impact
Graduates will engage in continuous learning, adapt to technological advancements, and apply their skills to positively influence society, with a special emphasis on empowering students in the field of Information Technology

Program Specific Outcomes – PSOs

PSO1:Problem Solving and Application Development
Graduates will be able to analyze real-world problems and design efficient IT solutions, applying programming, database management, and software development methodologies.

PSO2:Modern Tool Usage and Technological Adaptability
Graduates will be proficient in using modern IT tools and technologies, while continuously adapting to emerging trends to enhance system development and deployment.

PSO3:Professional Ethics and Societal Contributions
Graduates will uphold professional ethics, effectively contribute to team-based projects, and apply IT solutions to address societal needs, with a focus on women's Empowerment and community development.

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.
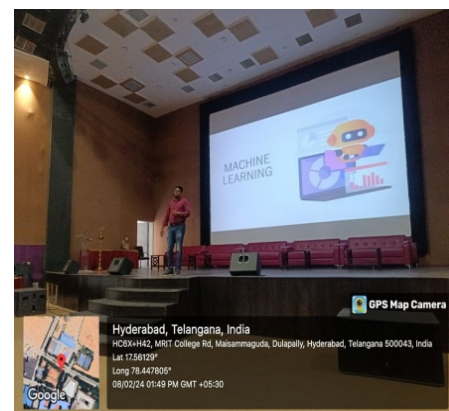

TECH TALK ON AIML, DATA SCIENCE

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

Students Achievements for A.Y 2023-24

✧ Won the prize for ALEAP WE HUB,Hyd held on 19th & 20th May 2024.

✧ 164 teams got paper publications in various Conferences and Journal's.

✧ 174 of 2020-24 batch students got successfully placed in various reputed companies.

Company Name	No. of Students Placed	Package (in Lakhs)
Accenture	91	4.35
Amazon	3	4
Capgemini	46	4
Cognizant	4	4
Infosys	2	9.5
KPIT	7	4.5
Publicis Sapient	7	4.5
Qualizeal	7	4
TCS	7	4
Total Students Placed: 174		

Summary of Student Participations

Event Name	No. of Participations
Student Publications	364
Outside the State - Participations	22
Outside the State - Winners	10
With in the State - Participations	26
With in the State - Winners	11
Hackathons Participations	123
Coding Challenges Participations	502
Workshops Participations	204
Webinars Participations	202
Total Awards / Merits / Appreciations /Participations	**1464**

Internships

Name of the Company	No. of Students
Bharath Intern	32
Code Soft	37
Code Speedy	27
Ei Systems	35
Motion Cut	11
Total	142

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 157 research publications, including 92 in UGC journals and 65 in prestigious SCOPUS/WOS/ SCI/Springer journals.

✧ In addition to their journal publications, faculty members also contributed significantly to academic literature, publishing 63 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.

Consultancy Projects:

   o Criminal Facial Detection and Occurrence Prediction Using Deep Learnings: A project funded by EDUGENE Hyderabad, with a total funding of ₹1,15000.

   o Software Fault Using Machine Learning: Project funded by D-CODE TECH, with a total funding of ₹1.35,000.

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