

CMR ENGINEERING COLLEGE

UGC AUTONOMOUS

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NEWSLETTER Jan-July 2023

Department of Humanities and Sciences

Our Sincere Thanks to

Chairman	:	Sri. Ch. Narsimha Reddy
Vice-chairman	:	Sri. Ch. Bhoopal Reddy
Secretary	:	Sri. Ch. Srisailam Reddy
Principal	:	Dr. A. Srinivasula Reddy
HS -HOD	:	Dr. K.V. Reddy

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Our Motto is
“Think Placement Think CMR”

Message From Management



Sri. Ch. Bhoopal Reddy
Vice-Chairman

It is my pleasure in congratulating the editorial board on this pleasant occasion of releasing the newsletter. Four years of engineering education at CMREC will not only earn students a degree but will transform students' personality, empowering them to lead a successful life. On this gracious occasion I wish all the best to those who are responsible for bringing out this letter.



CMR
Founder

Sri. Ch. Narasimha Reddy
Chairman

I am delighted to know that our college newsletter carrying the campus news and the achievements of our staff and students, who earn credits for the institutions, is being released. I can say with confidence that CMR Engineering College is a role model for others and students getting an opportunity to be associated with us have every reason to expect the best. With the support of qualified, dedicated and hardworking faculty, the institute has achieved enviable ranking in a short span and I have no doubts that with this pace, CMR Engineering College (Autonomous) will march ahead of other eminent institutes .



Sri. Ch. Srisailam Reddy
Secretary & Correspondent

We are extremely happy in releasing the half-yearly newsletter, highlighting the activities of the college between Jan 2023 and Dec 2023. The laudable exercise of the students and staff of this Institution has already brought laurels in the name of one of the Top 100 Best Colleges Award for the year 2016 by Higher Education News journal. I congratulate the staff and students for this achievement. I wish that everyone continue their untiring efforts not only to retain this reputation but to grow to further high standards. On this gracious occasion I wish all the best to those who are responsible for bringing out this letter.

On reading this text, it would definitely be an inspiration and motivation for the other students and staff to perform better and add on contributions in the forthcoming issues. Congratulations to all the contributors



Dr. A. Srinivasuala Reddy-

I have a great pleasure in expressing my thoughts as the Principal of CMR Engineering College (Autonomous). Our institute holds the manifold distinction of being amongst the best when one considers the present status of technical education today. Our teachers are invited as resource personnel at national and international seminars, conferences and symposia in India and abroad. I wish the best for all our staff and students who reiterate their aims at providing the best in academic and extra-curricular fields. It is my pleasure in congratulating the editorial board on this pleasant occasion of releasing the newsletter. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come.



Dr. K.V. Reddy
HOD – H & S Dept.



Dr. S.P Singh
Dean (H & S) & Professor

It gives me immense pleasure to the Newsletter of H&S Department, FRESHMAN. I am extremely happy in releasing this newsletter which highlights the activities conducted by our dept in this Academic Year 2023 -24. I congratulate all the faculty members on their sincere endeavours for their Professional Dept and achieving excellence.

ABOUT DEPARTMENT

The humanities and sciences strongly acknowledge as the footing subject for all the other branches of engineering discipline. The humanities and sciences department aims at providing competitive quality of education and it supports the students to lay the basic profound foundation of information and knowledge to all the branches of engineering. The objective of the department is to make the students to understand and aware of the importance of sciences and develop a natural elegance and interest towards the engineering and technology, which in turn will enhance and mould the students to a competent professional. It encourages the practical applications of concepts through learning experience and active participation and sharpens the students' strength and capability to converse and think rationally, potentially, and innovatively in several ways and these are appropriate for their discipline.

The precept of the department is to cater the formidable education to the students with the assistance of well-qualified, dedicated and highly motivated faculty members. Our faculty's research expertise in all frontier areas in English, physics, chemistry and mathematics will definitely aid the students to enrich their awareness in the engineering studies. The faculty of humanities and sciences, impart the best teaching methodologies to the students, which result to mould the students to the competent and true professionals, who are fit to apply their knowledge innovatively and independently and the outcome is they are recognised ample engineers of the society.

Our Vision and Mission

If You Think of Vision and Mission as an Organization's Head and Heart, the Values it holds are its Soul.
--- Buzotta

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

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

Program Outcomes (PO's)

1) Engineering Knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems

2) Problem analysis:

Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3) Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

4) Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5) Engineering tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.

6) The engineer and the world:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7) Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

8) Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

9) Communication:

Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

10) Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

11)Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSO's)

1)To exhibit the knowledge of algorithms, data structures, information security, programming languages, networking devices and data science and analytics as an IT Professional.

2) To be able to use industry Standard tools by Collaborating with Peers for becoming a successful IT Professional

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: To provide strong fundamentals in engineering principles to analyze, design and develop effective solutions using Advanced Programming tools in the field of Information Technology.

PEO 2:To create an IT Industry oriented Atmosphere for imparting the ability to lead or work in inter-disciplinary domains, collaboratively conduct research and Develop Solutions for the Benefit of Society.

PEO 3: Practice Professionalism and lifelong learning by adapting newer technologies with legal, social and ethical responsibilities.

Student Council Activities

CHAMP – CMREC’s Hub of Ambitious Mathematicians & Pragmatists

CHAMP, the Mathematics Club of CMREC, is committed to nurturing curiosity and excellence in mathematics among aspiring engineers. Emphasizing that mathematics is a foundation for innovation and real-world problem-solving, the club promotes analytical thinking, conceptual clarity, and systematic approaches through workshops, interactive sessions, and engaging activities. By highlighting modern mathematical developments and practical applications across engineering domains, CHAMP strives to make mathematics enjoyable, meaningful, and inspiring for every student.



CREST (CMREC’s Realm of English for Smart Technocrats)

The CREST Club at CMREC (CMREC’s Realm of English for Smart Technocrats) is a dynamic platform where language, creativity, and confidence come together. Guided by the motto “Celebrating the Power of Language,” the club hosts debates, JAM sessions, poetry slams, storytelling, and literary events that nurture communication skills, critical thinking, and stage confidence. By encouraging collaboration and expressive freedom, CREST shapes articulate technocrats who carry the power of words into their academics, careers, and communities.

AAKRITI -Nature Club

AAKRITI, the Nature Club of CMREC, inspires students to take responsibility for environmental protection and sustainable development. Promoting the principles of Reduce, Reuse, and Recycle, the club conducts awareness programs, eco-initiatives, and leadership activities that encourage practical environmental action. Under its guidance, the institution maintains a plastic-free campus, practices waste



segregation and e-waste management, promotes solar energy and LED conservation, and organizes initiatives such as tree plantations, recycling drives, Eco Film Fest, and World Environment Day celebrations—strengthening its commitment to a cleaner, greener future.

Club Co-ordinator - R Shirisha and P Anita`

Student Co-ordinators

President- Ganga Shiva Shankar

Vice President- T Sowmya Reddy

Women Empowerment Cell - CHARITA

CHARITA – For a Better Change

CHARITA, the Women Empowerment Cell of CMREC, was established on 8th March 2014 to create a safe, respectful, and empowering environment for women on campus. Committed to promoting gender equality and preventing discrimination and sexual harassment, the cell conducts awareness programs and provides a structured grievance redressal mechanism. It offers a supportive platform for girl students and women staff to build leadership skills, express themselves confidently, and enhance their talents. Guided by Supreme Court directives and institutional policies, CHARITA ensures confidentiality, fairness, and timely action, fostering trust and empowerment within the campus community.

CMREC BLOCKCHAIN CLUB

The CMREC Blockchain Club is a dynamic student-led community that empowers learners to explore Blockchain technology and Web 3.0 innovations such as cryptocurrencies, smart contracts, NFTs, and decentralized applications. By combining theoretical knowledge with hands-on projects, the club helps students understand secure database systems and real-world blockchain applications. With training in UI/UX design, web and app development, and crypto fundamentals, the club fosters innovation, collaboration, and technical excellence while preparing students to lead in the evolving digital ecosystem.

President- Aditya Choudhary

Vice President- Raghavendra

DATA ANALYTICS CLUB (DAC)

The Data Analytics Club (DAC), established in September 2022, focuses on nurturing analytical thinking and data-driven problem-solving skills among students. Through expert talks, workshops, and project-based learning, members gain exposure to Python programming, data preprocessing, machine learning, neural networks, and AI tools. By bridging academic knowledge with real-world applications in business, healthcare, and engineering, DAC equips students with industry-relevant skills and prepares them for successful careers in analytics and artificial intelligence.

Faculty Co-ordinators- Mrs. M S S Lakshmi Lavanya and Mr. B Kishore Kumar

Student Co-ordinators

President- B Aravind

Vice President- A Purna Rohit

ROBOTICS CLUB

The Robotics Club provides a vibrant platform for students to explore robotics, automation, and intelligent systems through experiential learning. By designing and building innovative robotic models such as obstacle-avoiding robots and gesture-controlled systems, students enhance their technical knowledge, teamwork, and creativity. Through demonstrations, reviews, and faculty mentorship, the club strengthens practical skills and inspires young engineers to innovate and contribute to advancements in robotics and AI.

Coordinators- Mr. Lal Bahadur Pandey and Mrs. Priyanka

CODING CLUB

The Coding Club is dedicated to strengthening programming proficiency and logical reasoning through hands-on coding sessions and challenging problem-solving activities. Students work on algorithm-based projects aligned with the academic curriculum, including graph algorithms, knapsack problems, matrix chain multiplication, and data structure implementations. By solving competitive and GATE-level problems, the club sharpens analytical thinking and prepares students to become confident, industry-ready programmers

CUBES CLUB

The Cubes Club is a student-led initiative that fosters a strong programming culture and equips students with industry-relevant technical skills. Founded by the Department of Information Technology, the club provides a collaborative platform to explore areas like programming, web and app development, AI, ML, and IoT. Through workshops, coding contests, open-source projects, and participation in platforms such as CodeChef and HackerRank, Cubes Club promotes innovation, real-time problem-solving, and enhanced career readiness in the tech domain

President- Anirudh

CMR ENGINEERING COLLEGE

EVENTS LIST

(Jan-June) 2023

S.No	Event Name	Dates of Event	Resource Persons	Affiliation of Resource Persons
1	Guest lecture on "Innovation and product development"	10/02/2023	Dr. M Pala Prasad	Head-Innovation Centre, IARE,
2	Guest lecture on "Industrial Trends and Challenges"	11/02/2023	Dr. Sri Chandra Dasaka	
3	Workshop "Augmenting Language development for 21 st century skills"	27/02/2023	Ruchi Tomar	Cambridge Master Trainer
4	Women's day celebrations	08/03/2023	Dr. Shalini Jadhav	Chairperson, Citizen First Human Rights Association
5	CHERISH 2K23	27/03/2023		
6	World Environment Day	05/06/2023	Dr. K Vijayakaumar Reddy	Professor, JNTUH
7	Telangana Decennial Celebration	19/09/2023	Dr. Surendrapal Singh, Dr. Nageshwar Rao	CMREC
8	International yoja day	20/06/2023	Mr. Achyuth Rajesh Sunkavelli	Project Manager, Infosys
9	Exuberance 2k23	03/04/2023	Ms.Sana Afreen, Venture Capitalist, Entrepreneur	CREST club

Events and Activities Jan- June 2023

INNOVATION AND PRODUCT DEVELOPMENT



The Department of Humanities and Sciences, in collaboration with the **Institution's Innovation Council (IIC)** at CMR Engineering College, organized an enlightening guest lecture on “Innovation and Product Development” The session was delivered by Dr. M. Pala Prasad Reddy, Head of the Innovation Centre at IARE, Hyderabad. Dr. Reddy, with his vast experience and expertise in fostering innovation and entrepreneurial thinking, provided deep insights into how innovative ideas can be transformed into viable products that address real-world challenges.

The lecture aimed to encourage students to adopt a creative mindset, understand the design thinking process, and explore product development strategies. Dr. Reddy highlighted various stages of innovation—from ideation, prototyping, testing, to market readiness—and emphasized the importance of interdisciplinary collaboration, user-centric design, and technology integration in product development.

INDUSTRIAL TRENDS AND CHALLENGES – EXPERT TALK



The session on “Industrial Trends and Challenges” took place on 11th February 2023 at Block 1 Auditorium, CMR Engineering College. Dr. Sri Chandra Dasaka, Chief Strategy and Innovation Officer at Deltamarch Technologies, Hyderabad, was the keynote speaker. The session aimed to provide insights into the latest industrial trends and challenges, with a focus on innovation, digital transformation, and the evolving technological landscape.

Dr. Dasaka discussed key trends such as the growing integration of automation and artificial intelligence, the shift towards sustainable practices and green technologies, the challenges of cybersecurity in an increasingly digital world, and the impact of Industry 4.0 on smart manufacturing. He also addressed the changing nature of the workforce and the need for continuous learning and upskilling to meet industry demands.

ENGLISH WORKSHOP – AUGMENTING LANGUAGE DEVELOPMENT FOR 21ST CENTURY SKILLS

An insightful English Workshop was organised on “*Augmenting Language Development for 21st Century Skills*”. The session was led by **Ms. Ruchi Tomar**, a Cambridge Master Trainer, who delivered an informative and impactful talk. She emphasized the growing need for Indian graduates to adapt to the changing dynamics of the digital era. Her session highlighted how the lack of essential communication and technology-integrated skills is becoming a major barrier in employability and global competitiveness. Ms. Tomar provided valuable insights on integrating technology into language teaching to equip students with critical 21st-century skills such as digital literacy, effective communication, collaboration, and adaptability.

INTERNATIONAL WOMEN’S DAY CELEBRATION

International Women’s Day on 8th March 2023 with great enthusiasm and a strong sense of purpose. The event highlighted the importance of gender equity and human rights, drawing participation from students, faculty, and staff across the campus.

The session was led by **Dr. Shalini Jadhav**, Chairperson of the Citizen First Human Rights Association, who delivered an impactful and thought-provoking address. She emphasized the importance of being aware of societal issues and encouraged everyone

to take a stand against injustice to ensure human rights are upheld for all. Dr. Jadhav highlighted that the primary goal of human rights is to protect individuals from discrimination based on race, religion, caste, creed, or any other differences.

EXUBERANCE 2K2

The much-anticipated Annual Day, EXUBERANCE 2K23, was celebrated with great pomp and show at CMR Engineering College. The event was a vibrant fusion of celebration, talent, and recognition, drawing the entire college community together for an unforgettable experience.

The grand event was graced by the presence of actor Sushanth, who attended as the Chief Guest, and Shri Ch. Malla Reddy Garu, Hon'ble Member of Parliament, whose presence added prestige to the occasion. The celebrations were further marked by the birthday of Sri Srisailam Sir, Secretary and Correspondent of the institution, making the event all the more special and heartfelt.





Cherish 2k23 EVENTS

As part of the College's annual celebrations, a vibrant series of fun events was organized to foster a spirit of enjoyment, collaboration, and community among students. The primary objective was to encourage student interaction, promote teamwork, and provide a refreshing break from academic routines through light hearted competition and entertainment.

WORLD ENVIRONMENT DAY CELEBRATION



World Environment Day, celebrated every year on 5th June, serves as a global platform to raise awareness and inspire action for the protection of our environment. This year, the occasion was observed with great enthusiasm and active participation by both faculty and students of our institution.. The

celebration began with a brief inaugural address highlighting the importance of environmental conservation and the role of youth in shaping a greener future. The event concluded with a pledge taken by all participants to protect and preserve the environment in their daily lives. The celebration of World Environment Day served not only as a reminder of our duty towards nature but also as a motivation to adopt eco-friendly habits and contribute to a healthier planet.

Virtual Lab Session

The Department of H&S successfully conducted a Virtual Lab Session for B.Tech first-year students, providing hands-on exposure to basic electrical and electronics experiments through online simulation tools.



The session aimed to familiarize students with circuit simulations, bridge the gap between theory and practice, and enhance understanding through interactive virtual experiments. It also encouraged self-paced learning and strengthened students' problem-solving skills, ensuring uninterrupted learning despite physical constraints.