

CMR ENGINEERING COLLEGE

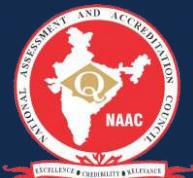
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C&NBA

Dept.of Computer Science and Engineering

NEWSLETTER CSE-NAPSE (A.Y. July-Dec. 2023)



Volume: 22





Institution Vision & Mission

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.



Message from the Executive Team



Heartfelt greetings to the leaders of the CSE newsletter volume 22 issue! Congratulations and warm wishes to the dedicated staff and outstanding students of CMREC's CSE Department for their excellent achievements in the academic year 2023-24.

Shri Ch. Narasimha Reddy

Chairman

The collaborative effort of our dynamic CSE students and dedicated faculty has resulted in this insightful newsletter for A.Y. 2023-24, reflecting their hard work and vibrant spirit. This vital platform is a commendable initiative to keep our community well-informed and connected within the Computer Science and Engineering department.

Ch. Bhoopal Reddy

Vice - Chairman



CSENAPSE, the newly released newsletter from our CSE Department, is a fantastic initiative! It serves as a wonderful window into the news and achievements of our exceptional staff and students, who are a constant source of pride for our institution. We are thrilled to use this special occasion to share insights into our diverse programs and engaging activities with our teachers, parents, students, and all who support us.

Shri Ch. Srisailam Reddy

Secretary & Correspondent, CMREC.

With immense pleasure, I release this edition of the CSE Department Newsletter, a valuable resource that strengthens the connection between our institution and the wider world. I extend my warmest wishes to the faculty and students of the CSE Department and encourage their continued impactful endeavors within the realm of technology.



Dr. A. Srinivasula Reddy

Principal, CMREC.



It is a privilege to release CSENAPSE, the CSE Department Newsletter, a platform designed to highlight the noteworthy achievements of our department's activities during the academic year 2023-24. I offer my sincere congratulations to our dedicated faculty members for their commendable efforts in professional development and their unwavering commitment to the highest standards of excellence.

Dr. Sheo Kumar

HOD CSE, CMREC

ABOUT THE DEPARTMENT

Established in 2010, the Department of Computer Science & Engineering offers a B.Tech degree with an intake of 240 students and a Master's degree with an intake of 24. The department is equipped with sophisticated and essential infrastructural facilities, ensuring high-quality education and is structured to meet contemporary industry demands. This quality education is supported by a team of well-qualified and experienced faculty, complemented by technically skilled and competent programmers. To keep faculty and students abreast of the latest technological advancements, seminars and workshops are regularly



conducted. The department aims to develop students into competent software professionals, prepared to meet the challenges of the Computer Science and Information Technology sectors.

VISION

To produce globally competent and industry-ready graduates in Computer Science & Engineering by imparting quality education with the know-how of cutting-edge technology and holistic personality.

MISSION

1. To offer high-quality education in Computer Science & Engineering in order to build core competence for the graduates by laying a solid foundation in Applied Mathematics and program framework with a focus on concept building.
2. The department promotes excellence in teaching, research, and collaborative activities to prepare graduates for a professional career or higher studies.
3. Creating an intellectual environment for developing logical skills and problem-solving strategies, thus developing, an able and proficient computer engineer to compete in the current global scenario.



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Excel in professional career and higher education by acquiring knowledge of mathematical computing and engineering principles.

PEO 2: To provide an intellectual environment for analyzing and designing computing systems for technical needs.

PEO 3: Exhibit professionalism to adapt current trends using lifelong learning with legal and ethical responsibilities.

PEO 4: To produce responsible graduates with effective communication skills and multidisciplinary practices to serve society and preserve the environment.

PROGRAM OUTCOMES (POs)

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 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 the public health and safety, and the cultural, societal, and environmental considerations.
- 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.
- Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- The engineer and society:** 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.
- Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- Communication:** Communicate effectively on complex engineering activities with the engineering community and with 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.
- 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.
- 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)

- Professional Skills and Foundations of Software development:** Ability to analyze, design and develop applications by adopting the dynamic nature of Software developments.
- Applications of Computing and Research Ability:** Ability to use knowledge in cutting edge technologies in identifying research gaps and to render solutions with innovative ideas.

Student Activities Council

College is about seeing things from a fresh perspective. Opening our eyes to more than just studies. The SAC brainstorms all kinds of interesting and unique programs, events and services that make the campus feel alive - with a mindful eye to diversity at all times. Most of what we plan will change your life for the better in social, physical, intellectual or emotional ways. Our campus is inspiring. The SAC works hard to keep it that way.



Coding Club

The Coding Club is designed to inspire young people to be science and technology leaders by engaging them in exciting mentor-based programs. These programs will build science, engineering, and technology skills that inspire innovation and that foster well rounded life capabilities that include self-confidence, communication, and leadership. Through participation in this club, we will create problem solvers and develop skills for computer work, collaboration, as well as programming with various programming.



Report On “CLUB IDEA PRESENTATION”

The **Club Idea Presentation** event was conducted on 16th December 2023 for II-year students, coordinated by **Mrs. Y. Prathima and Mr. Mruthyunjaya Yalawar**. A total of 118 students participated, presenting posters to showcase their technical ideas and communication skills. Organized by the Coding Club and AI Club, the event aimed to enhance students' presentation abilities and creative thinking. Department Heads and the Principal evaluated the posters, selecting winners for four main prizes and three consolation awards. The event encouraged teamwork, technical articulation, and innovative thinking among students



Summary of Research Contributions (2023–2024)

1. Artificial Intelligence and Machine Learning Applications

A large portion of the collected works focus on AI and ML innovations across domains such as healthcare, transportation, agriculture, cybersecurity, and environmental sustainability.

Dr. MD Rafeeq's book chapter "**Evaluation of AI Model Performance**" provides a comprehensive overview of performance assessment techniques, emphasizing accuracy, validation, and generalization metrics for AI systems. Similarly, his journal paper "An Optimized System for Sensor Ontology Meta-Matching Using Swarm Intelligence Algorithm" improves sensor network efficiency using swarm-based optimization methods.

Healthcare applications are notably addressed in multiple works. For example, "**Predicting Antagonistic Drug Reactions in Humans Using Machine Learning Methods**" (Radhika Takkella et al.) uses ML models to enhance pharmacovigilance. "**Optimal Stacked Autoencoder-Based Parkinson's Disease Detection**" (N. Navaneetha & V. Sathiyasuntharam) applies deep learning for early diagnosis, while "**Heart Stroke Risk Prediction Using ML and DLA**" (M. Prajwala Priyanka et al.) integrates neural networks for cardiovascular risk assessment. "**Identification and Characterization of Lung and Pancreatic Tumors Using Deep Learning**" (A. Punitha et al.) demonstrates the growing impact of AI in medical imaging and cancer detection.

Defect prediction and quality assurance in software are addressed by M. Prashanthi using the Spider Hunt Optimization Technique, showcasing how AI can detect faults early in software development.

In agriculture, deep learning and ML models have been effectively employed in "**Rice Paddy Leaf Disease Detection Using CNN Algorithm**" and "**Weed Detection Using Machine Learning Techniques**", both led by Dr. Rajesh Tiwari and collaborators. "**Crop Prediction Using Machine Learning Approaches**" (Mrutyunjaya S. Yalawar) enhances yield forecasting, while "**Fruit Type Classification Using Stacked Bi-directional LSTM**" (S. Anitha) introduces automation in produce identification.

In the energy sector, "**Enhanced Performance of Solar Stills Using Zirconium Dioxide Nanoparticles**" (M. Saravanan & M. S. Yalawar) and "**Enhanced Power Quality for PV-Wind Microgrids Using Neural Networks**" (Dr. Rajesh Tiwari et al.) highlight the integration of AI with renewable energy systems. Similarly, "**Green AI Revolution: Machine Learning for Environmental-Friendly Communication Networks**" (M. S. Yalawar) promotes sustainable AI-driven network design.

2. Intelligent Systems, Optimization, and Big Data

The collection features several optimization-based and hybrid AI models designed for performance improvement across diverse computational fields.

"**A Novel Framework for Effective Information Data Mining in Big Data Domain Using Machine Learning Techniques**" (Dr. Bodla Kishor et al.) outlines an efficient framework for handling massive datasets, contributing to data-driven analytics.

"**Hybrid Grasshopper and Harris Hawk Optimization Algorithm-Based Routing**" (Dr. Bodla Kishor) and "**Hybrid Grasshopper Whale Optimization Algorithm for Intrusion Detection in IoT**" (Prathima Y.) combine multiple optimization strategies to improve efficiency and security.

The hybridization trend continues in "**Optimizing Convergence and Diversity Using GA and PSO**" (Ashok Kumar et al.), demonstrating the advantages of combining metaheuristic algorithms for broader engineering applications.

"**Rock-hyrax: An Energy Efficient Job Scheduling Algorithm**" (Dr. Rajesh Tiwari) applies

intelligent clustering to optimize computational loads in cloud computing, reducing energy use and improving resource management.

“**A Traffic Prediction Model Based on Multi-Stream Feature Fusion**” (Dr. Rajesh Tiwari) and “**An Intelligent Forecasting Classification Model for Traffic Analysis**” (Dr. Bodla Kishor et al.) contribute to transportation analytics, enhancing prediction accuracy for traffic management systems.

“**Effect of Environment on Students' Performance Through Orange Tool of Data Mining**” (Rajesh Tiwari et al.) applies educational data mining to analyze academic outcomes, marking the interdisciplinary reach of data science.

3. Cybersecurity, IoT, and Digital Forensics

A significant part of these works addresses cybersecurity and IoT-based solutions through advanced algorithms and blockchain technologies.

“**Blockchain-Based Privacy-Preserving System for IoT**” (Dr. C. N. Ravi et al.) ensures secure communication among IoT devices using decentralized blockchain mechanisms.

“**Comparison of AI Concepts, Machine Learning Hybrid Approach, and IoT in Monitoring Smart Home Appliances in IDS**” (M. Bhargavi) enhances smart home security systems through hybrid AI models.

“**Hybrid Grasshopper Whale Optimization Algorithm-Based IDS in IoT**” (Prathima Y.) also focuses on improving intrusion detection accuracy using metaheuristic optimization.

“**Illicit Messages and Images Detection Using Deep Learning, NLP, and Computer Vision**” (Dr. Sheo Kumar et al.) presents an AI-driven model for detecting harmful digital content on social media, addressing online safety challenges.

“**Fighting Fake Visual Media: Detecting Image and Video Tampering**” (Dr. Rajesh Tiwari) explores emerging methods in digital forensics, essential for combating misinformation and visual manipulation.

4. Technological Innovations in Engineering Systems

Several papers showcase AI and ML applications in engineering, power systems, and control systems, highlighting innovation-driven approaches.

“**Advanced Modulation Technique for Power Electronic Converters in Grid-Tied Inverters**” (Y. Shyam Sundar) focuses on improving the efficiency of power converters in renewable grids.

“**Fault Detection and Diagnosis in Automotive Control Systems Using ML**” (Anil P. Jawalkar et al.) demonstrates how AI enhances vehicle reliability and predictive maintenance.

“**Opposition Crow Search Algorithm-Based ANN for Epileptic Seizure Classification**” (Kumar E.) presents an optimization-based neural model improving diagnostic precision for neurological disorders.

“**Defect Prediction in Software Using Spider Hunt Optimization**” and “**Stacking Ensemble ML for Heart Disease Prediction**” (Ruhi Fatima et al.) exemplify the diverse engineering applications of AI.

“**Text Detection and Classification in Camera-Captured Documents Using CRNN + CRF**” (Athapuram Divya et al.) contributes to document analysis and OCR advancements, enabling efficient digitization processes.

5. Pandemic-Era and Health Safety Innovations

Some works emerged directly in response to the COVID-19 pandemic, focusing on prevention, prediction, and safety.

“COVID-19 Future Forecasting Using Machine Learning” (Anusha M. et al.) employs predictive models for pandemic case forecasting.

“Design and Development of the Conveyor Cabinet with UV Light Chamber and Dry Fogging System” (M. Prabhakar) introduces an innovative decontamination system for safe handling of public and personal items.

These works demonstrate how AI and automation can be rapidly mobilized for global health crises.

6. Educational and Textbook Contributions

In addition to research papers, the collection includes academic books that strengthen teaching and professional skill development.

“Python for Professionals” (Prof. Priya Keshkar et al.) and **“Java Programming”** (Dr. Sheo Kumar & D. Uma Visveshwar) are comprehensive resources for learners and practitioners in Computer Science and Engineering. These textbooks bridge the gap between theoretical understanding and real-world programming applications.

7. Emerging Trends and Future Directions

- Across all 38 publications, several recurring themes emerge:
- The integration of AI, ML, and deep learning across domains for automation, prediction, and optimization.
- The rise of hybrid and swarm intelligence algorithms to improve performance in complex computational tasks.
- A strong emphasis on security and privacy, particularly in IoT and online environments.
- The application of AI in sustainability, renewable energy, and environmental protection.
- Increasing focus on healthcare analytics, predictive modeling, and disease detection.
- These trends indicate a shift toward interdisciplinary AI research, bridging Computer Science, Engineering, Environmental Science, and Healthcare to address real-world challenges through intelligent, data-driven solutions.

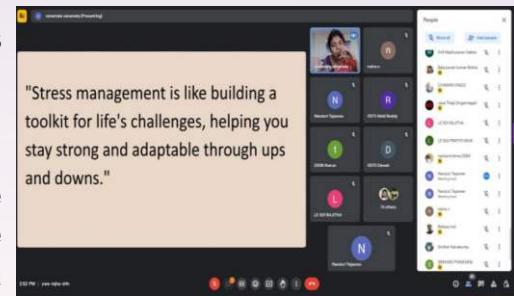
Faculty Achievements in Patent Publications

1. **Dr. Rajesh Tiwari** has been granted a patent (No. 202321077046) for his innovation titled **“Field Monitoring and Automation using IoT in Agriculture.”** Filed on 10th November 2023 and granted on 15th December 2023, this invention integrates IoT for smart farming, enabling real-time monitoring and automation to optimize crop management and resource use.
2. **Mr. Md. Azhar** from the Department of CSE received a patent (No. 393101-001) for his work **“AI Enabled Robot for UV-Disinfection.”** Filed on 19th August 2023 and granted on 12th October 2023, the invention introduces an AI-powered robotic system for autonomous UV-based disinfection, enhancing safety and efficiency.

Events Organized in the Dept.

Webinar on “TIME MANAGEMENT & STRESS MANAGEMENT”

A webinar on “Time Management & Stress Management” was held on 8th August 2023 in online mode, coordinated by Mrs. N. Tejasree, with Dr. G. Archana, Associate Professor at MRCET, as the guest speaker. A total of 101 participants attended, including 96 IV-year students and 5 faculty members. The session focused on building awareness about effective time management and stress management techniques. Dr. Archana



shared practical strategies and real-life examples to help students overcome stress and manage their time efficiently. The session was highly informative and helped participants understand the importance of balancing workload and well-being.

Seminar on “INTERACTIVE SESSION ON CRITICAL THINKING AND CAREER DEVELOPMENT”

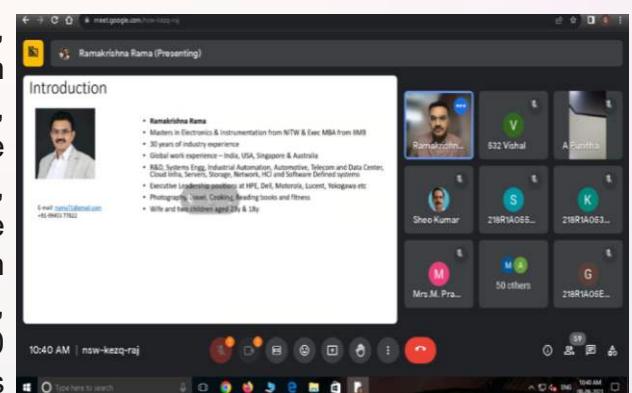
An Interactive Session on Critical Thinking and Career Development was conducted on 9th August 2023 at CMR Engineering College, coordinated by Mr. D. Nagesh with guest speaker Mr. Venkateshwara, HEAD-GECF (TS & AP). Over 180 students participated in the session, which focused on guiding students in choosing between higher studies and career opportunities after engineering. The speaker provided insights into critical thinking, career planning, and the skills required for personal and professional development. Students explored various



career paths, educational opportunities, and skill-building strategies essential for future growth. The session encouraged self-assessment and goal setting for better career decision-making.

Webinar on “IOT AND INDUSTRY 4.0- TECHNOLOGY, BUSINESS AND JOB OPPORTUNITIES”

A webinar on “IoT and Industry 4.0 – Technology, Business, and Job Opportunities” was conducted on 8th September 2023 in virtual mode in our college, coordinated by A. Punitha and A. Divya Reddy. The session saw participation from 62 attendees, including 60 students and 2 faculty members. The event focused on IoT technologies, applications in smart cities, home automation, and healthcare, supported by real-life case studies. Industry 4.0 concepts like automation, AI, ML, and data analytics



were explored, highlighting their impact on manufacturing and business processes. The session also addressed career prospects and the economic potential of these technologies in future industries.

Guest Lecture on “ DEVOPS AND UX”

A workshop on “DevOps and UX” was held on 22nd September 2023, coordinated by A. Punitha and A. Divya Reddy. A total of 70 participants attended, including 67 students and 3 faculty members. The session focused on understanding DevOps practices that integrate development and operations teams for faster and efficient software delivery. The importance of UX in designing user-



centric products was also discussed, emphasizing the role of user research and feedback. The workshop highlighted how combining UX with DevOps improves problem-solving and adaptability during development. Participants gained insights into building responsive digital solutions with a focus on both user needs and operational efficiency.

Webinar Report on “INNOVATIVE PRACTICES FOR PROTOTYPING”

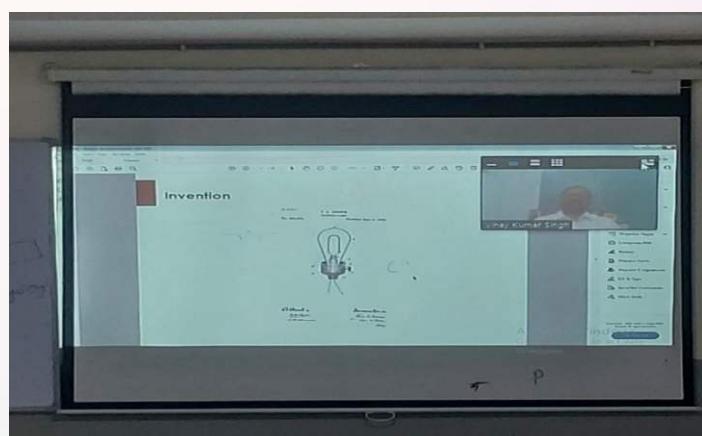
A Session on Innovative Practices for Prototyping was conducted on 25th September 2023 in online mode, coordinated by Mrs. S. Anitha, with Dr. Manoj Kumar from GLA University, Mathura as the guest speaker. A total of 65 participants attended, including 60 III-year students and 5 faculty members. The session focused on enhancing students' understanding of entrepreneurship, leadership, and real-time problem-solving strategies. Dr. Manoj Kumar discussed innovative



solutions in sectors like healthcare, e-commerce, and banking. The session encouraged students to apply creative thinking for real-world applications and offered valuable insights into modern prototyping methods.

Webinar Report on “INTRODUCTION TO IPR & COMPUTER RELATED INVENTIONS(CRIS)

A guest lecture on “Introduction to IPR & Computer Related Inventions (CRIs)” was conducted on 30th September 2023 in online mode, coordinated by Mrs. S. Anitha, with Mr. Vinay Kumar Singh, Advocate and Patent Agent from IIT Kharagpur, as the guest speaker. A total of 63 participants attended, including 60 III-year students and 3 faculty members. The session focused on enhancing students' understanding of Intellectual



Property Rights (IPR), covering topics like patent application processes, eligibility conditions, and areas where IPR can be applied. The session provided practical insights into protecting innovations, especially in computer-related fields, and was highly informative.

Guest Lecture on “INTEGRATION OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN REAL WORLD APPLICATIONS”

A guest lecture on “Integration of Artificial Intelligence and Machine Learning in Real World Applications” was held on 30th September 2023 at B-209, coordinated by Md. Gulzar, with Ms. M. Nagamai from Train-a-Tech Pvt. Ltd, Hyderabad as the guest speaker. A total of 70 participants attended, including 65 III/I-year students and 5 faculty members. The session focused on creating awareness



about the practical integration of AI and ML technologies across various industries. Ms. Nagamai explained core concepts, real-world use cases, and industry applications of AI and ML. The session was informative and enhanced students' understanding of modern technologies.

Guest Lecture on “JAVA BASICS AND GOOD PRACTICES”

A session on “Java Basics and Good Practices” was held on 7th October 2023 at the Computer Lab, Block 2, coordinated by Mr. M. Prashanthi and Md. Gulzar. The session introduced students to Java fundamentals, covering object-oriented concepts, data types, and control structures. Emphasis was placed on coding best practices like clear naming conventions, proper indentation, modular programming, and effective error handling. Students learned how Java's simplicity,



portability, and robustness make it ideal for developing web, mobile, and enterprise applications. The session aimed to help students write clean, efficient, and maintainable Java code.

Guest Lecture on “ACHIEVING OPERATIONAL EFFICIENCIES THROUGH AI AND ML”



A seminar on “Achieving Operational Efficiencies through AI and ML” was organized on 18th October 2023 at Block-1 Auditorium, coordinated by A. Punitha and A. Divya Reddy. A total of 120 participants attended, including 118 students and 2 faculty members. The session focused on how AI and ML enhance operational efficiency in businesses through data-driven decision-making, automation, and intelligent systems. Key topics included OCR technologies, IDP processing, Generative AI, and LLMs. Real-world applications in fields like finance and healthcare were discussed, along with project-based learning opportunities for students.

Webinar on “INTRODUCTION TO INCUBATION CENTER”

A webinar on “Introduction to Incubation Center” was conducted on 19th October 2023 in online mode, coordinated by Mrs. S. Anitha, with Mr. V. Surya Pavan Kumar, Associate Professor at MLR Institute of Technology, as the guest speaker. A total of 62 participants attended, including 60 III-year students and 2 faculty members. The session focused on



creating awareness about Incubation Centers, their role in supporting startups, and the benefits of joining such initiatives. Students learned about incubators, accelerators, and choosing the right platform to develop their startup ideas. The session was informative and encouraged entrepreneurial thinking.

Webinar on “GLOBAL TRENDS IN INCUBATION AND PRE-INCUBATION PROGRAMS”

A guest lecture on “Global Trends in Incubation and Pre-Incubation Programs” was held on 4th November 2023 in online mode, coordinated by Mrs. S. Anitha, with Mr. S. Dinesh Dhanabalan, IIC Manager from Arifa Institute of Technology, Tamil Nadu, as the guest speaker. A total of 111 participants attended, including 108 III-year students and 3 faculty members. The session focused on the role and importance of incubation and pre-incubation centers, steps to establish them, and strategies for successful incubation support. Students gained insights into startup support systems and the necessity of incubation for fostering innovation and entrepreneurship.



Webinar on “ BASICS TO A STARTUP BUSINESS”

A seminar on “Basics to a Startup Business” was conducted on 8th December 2023 in offline mode at CMR Engineering College, coordinated by Mrs. S. Anitha, with Mr. K.S.K. Jayadeva Rao, an International Motivational Speaker, as the guest speaker. A total of 113 participants attended, including 110 II-year students and 3 faculty members. The session focused on introducing students to startup basics, including types of businesses, necessary requirements, and strategies for launching a successful enterprise. Students also learned how to



analyze products before starting a business. The session was informative and encouraged entrepreneurial thinking.

TECH POSTER PRESENTATION 2023

The Tech Poster Presentation 2023 was held on 20th December 2023 at Block-1 Auditorium, coordinated by Mr. Md. Gulzar and Mrs. M. Prashanthi. A total of 150 students and 10 faculty members participated. Students from various departments showcased posters on topics like AI, IoT, Green Technology, and Robotics. The event aimed to enhance students' technical communication and research skills through visual presentations. The Best Poster Award was given to S. Priya and M. Arjun for their project on AI-Driven Sustainable Agriculture, while the Runner-Up Poster was presented by A. Naveen and T. Kavitha on Smart Waste Management Using IoT. The event encouraged interdisciplinary collaboration and practical innovation among participants.

INDUSTRIAL VISIT

VISIT TO T-HUB

An industrial visit to T-Hub, Hyderabad was conducted on 13th July 2023 for II-year students, focusing on financial analysis and innovation ecosystems. Coordinated by Mr. M. Prabhakar, Mr. Shyam Sundar, and Mrs. S. Anita, the visit aimed to introduce students to India's premier startup incubator. T-Hub supports startups by providing access to technology, talent, investors, and mentorship, helping them scale innovations. Students



gained exposure to how startups collaborate with corporates and government agencies to build sustainable businesses. The visit highlighted the importance of innovation, ecosystem support, and financial planning in startup growth.

VISIT TO NRSC

An industrial visit to NRSC, Hyderabad was organized on 12th August 2023 for IV-year students, coordinated by Mr. M. Prabhakar, Mr. Shyam Sundar, Mrs. A. Punitha, and Mrs. M. Prashanthi. A total of 120 students participated in the visit aimed at enhancing their subject knowledge, internships, and project opportunities. Dr. Ganesh, Senior Scientist at NRSC, explained key concepts related to ISRO, PSLV rocket launches, and remote sensing applications. Students learned about satellite data, aerial services, and practical applications of remote sensing technology. The visit provided valuable industry exposure and insights into space research.



FACULTY NPTEL CERTIFICATIONS

Mrs. A. Punitha has earned Elite Certification in the Cyber Security and Privacy course offered by NPTEL, showcasing her dedication to advancing her expertise in digital security frameworks and privacy protocols. Her achievement reflects a strong commitment to staying ahead in the evolving landscape of cybersecurity, contributing valuable knowledge and skills to our institution's academic excellence.

Mr. K. Vijay Babu has successfully completed the Introduction to Internet of Things course through NPTEL, earning the prestigious Elite + Silver Certification. This accomplishment highlights his dedication to exploring emerging technologies and enhancing his knowledge in the dynamic field of IoT, contributing valuable insights and expertise to the institution's growth in the domain of smart technologies.

Mr. E. Suresh Babu, a dedicated faculty member from the Computer Science and Engineering department, has successfully completed the NPTEL certification course on "Introduction to Internet of Things". She secured the prestigious Elite+Gold certification, showcasing her commitment to academic growth. This achievement highlights her consistent efforts to stay updated with emerging technologies. Her accomplishment serves as an inspiration for continuous learning and professional excellence.

Mrs. Bonugula Mamatha, a faculty member from the Computer Science and Engineering department, has successfully completed two prestigious NPTEL certification courses. She completed "Python for Data Science" and earned an Elite certification in "Introduction to Internet of Things". Her commitment to continuous learning and skill enhancement is commendable. These achievements reflect her dedication to professional development and subject mastery. She continues to serve as a role model in embracing emerging technologies.

Mr. M. Prabhakar, a committed faculty member from the Computer Science and Engineering department, has successfully completed the NPTEL certification course on "Introduction to Operating Systems". This achievement highlights his dedication to staying updated with foundational and advanced concepts in his field. His consistent efforts toward academic enrichment reflect his passion for teaching and learning. By embracing continuous professional development, he sets a valuable example for both students and colleagues.

Ms. Erakasani Lakshmi Prasanna, from the Computer Science and Engineering department, has successfully completed the NPTEL certification course on "Problem Solving Through Programming in C". She earned the prestigious Elite+Silver certification, showcasing her solid understanding of programming fundamentals. Her achievement reflects her commitment to professional development and continuous learning. By upgrading her technical skills, she sets a strong example for aspiring programmers. Her dedication to academic excellence is truly commendable.



FACULTY FDP's/ WORKSHOP's ATTENDED

- We extend our heartfelt congratulations to the following faculty members for receiving Appreciation Certificates for their active participation in the **IIC Workshop** during the academic year **2023–2024** : **Dr. Sheo Kumar, Dr. Rajesh Tiwari, Dr. C. N. Ravi (Professors), Dr. Ravi Kumar Chandu (Associate Professor), and Mr. K. Vijay Babu (Assistant Professor)**.
- Congratulations to **Maddi Bhargavi, M. Swathi, and Katragadda Anuhya**, Assistant Professors, for successfully completing the Faculty Development Program (FDP) on Data Analytics and Cloud Computing in 2023, organized by Edunet.
- **Dr. Rafeeq Mohammed**, Associate Professor, successfully completed a Faculty Development Program (FDP) on Data Analytics and Cloud Computing in 2023, organized by Edunet.
- **Mr. Mrutyunjaya S. Yalawar**, Assistant Professor, served as a Reviewer at an International Conference held from 14th to 15th July 2023 at Malaviya National Institute of Technology (MNIT), Jaipur.
- **Mujeeb**, Assistant Professor, published a research paper in August 2023 in the International Journal of Research (IJR).
- **E. Lakshmi Prasanna**, Assistant Professor, successfully completed the “AI for India 2.0” course on 16th August 2023, organized by Skill India Digital.
- **Dr. Sheo Kumar**, Professor, successfully completed a Faculty Development Program (FDP) on Amazon Web Services (AWS) from 21st to 25th August 2023, organized by Brain Vision under AICTE.
- A group of dedicated faculty members successfully completed a Faculty Development Program (FDP) on Amazon Web Services (AWS) held from 21st to 25th August 2023, organized by CMREC. Participants include **Dr. Rafeeq Mohammed (Associate Professor) and Assistant Professors S. Anitha, B. Mamatha, E. Lakshmi Prasanna, Shyam Sunder, M. Prabhakar, Maddi Bhargavi, M. Swathi, D. Navanitha and Mr. Mrutyunjaya S. Yalawar**.
- **Shyam Sunder**, Assistant Professor, successfully completed an AWS course on 26th August 2023, conducted by Eduskills.
- **Dr. Rajesh Tiwari**, Professor, served as a Reviewer at an International Conference held from 1st to 2nd September 2023 at Nitte Meenakshi Institute of Technology, Bengaluru.
- **Sai Manasa and K. Mamatha**, Assistant Professors, successfully completed a Faculty Development Program (FDP) on Power BI held from 3rd to 7th October 2023, organized by CMRTC.
- **Mrutyunjaya S. Yalawar**, Assistant Professor, participated as a Peer Reviewer at an International event held on 18th October 2023, organized by BP International.
- **Dr. Rajesh Tiwari**, Professor, served as a Reviewer at the International Conference held from 20th to 21st October 2023 at RV Institute of Technology and Management, Bengaluru.
- **Mrutyunjaya S. Yalawar**, Assistant Professor, served as a Reviewer at an International Conference held from 3rd to 4th November 2023 at Sharda School of Engineering and Technology, Greater Noida.
- **A. Punitha and G. S. Sravanthi**, Assistant Professors, successfully completed a Faculty Development Program (FDP) on Blockchain Technology held from 13th to 18th November 2023 at Geethanjali College.

FACULTY ACHIVEMENTS

- The Department of Computer Science and Engineering proudly recognizes seven exceptional faculty members with the Best Faculty Award this year. These educators have demonstrated outstanding commitment to teaching, groundbreaking research, and inspiring mentorship. Their innovative approaches and passion for advancing technology have transformed classrooms into incubators of creativity and learning. Congratulations to Dr. Sheo Kumar, Dr. C N Ravi, Dr. Ravi Kumar Chandu, Dr. Rajesh Kumar Tiwari, Mr. E. Suresh Babu, Mrs. G. Kumari and Mrs. M. Prashanthi
- Congratulations to **Dr. Sheo Kumar** (Professor), **Dr. Rafeeq Mohammed** (Associate Professor), and Assistant Professors Mrutyunjaya S. Yalawar, K. Vijay Babu, and Md. Gulzar for successfully completing the Faculty Development Program (FDP) on Artificial Intelligence & Quantum Machine Learning (AI & QML) from 20th to 25th November 2023, organized by MANU University.
- **Mrutyunjaya S. Yalawar**, Assistant Professor, successfully completed a Faculty Development Program (FDP) on AI Tools and Prompt Engineering from 27th November to 2nd December 2023, organized by ANIT in collaboration with Brain Vision.
- **Dr. Sheo Kumar**, Professor, served as a Reviewer at an International Conference organized by Maulana Azad National Urdu University, Hyderabad, from 1st to 2nd December 2023.
- **A. Punitha**, Assistant Professor, actively participated in a Workshop on Cyber Suraksha conducted on 8th December 2023 at CMREC, enhancing her awareness in cybersecurity.
- **Mrutyunjaya S. Yalawar**, Assistant Professor, successfully completed a Faculty Development Program (FDP) on Deep Learning, held from 18th to 23rd December 2023 at GNIT.
- **Dr. Rajesh Tiwari**, Professor, contributed as a Member at an International Conference held from 21st to 23rd December 2023 at Jaypee Institute of Information Technology, Noida.



and More...

STUDENTS ACHIEVEMENTS

State-Level Participation

Date: 12-10-2023

Students Mahender Reddy, G. Yashwanth Reddy, and Chaitanya proudly represented our institution at the State-Level Tech Talk Competition. Their enthusiastic participation showcased their technical knowledge and public speaking skills, contributing to the spirit of learning and collaboration.

Students B. Eshwar Reddy and Shyamson actively participated in the Tech Byte event at the state level, showcasing their technical knowledge and presentation skills. Notably, B. Archana secured the Third Place, bringing laurels to the institution with her outstanding performance.

Students T. Monica, A. Gangotri, S. Rakesh, and A. Nandita represented the institution at the State-Level Tech Debate event. Their enthusiastic participation helped them enhance their critical thinking, public speaking, and technical argumentation skills.

Date: 14-10-2023

Students Jagdeesh, C. Vamshi, A. Anudeep, and N. Mahender actively participated in the **IMPACTech 2K23 Hackathon**, a prestigious state-level competition. The event provided them with valuable hands-on experience in collaborative problem-solving and innovative solution development within a competitive environment.

A group of enthusiastic students – K. Koushik, K. Saieth Reddy, K. Nikitha, and G. Shravani – represented our institution at the **IMPACTECH 2K23 Hackathon** on 14-10-2023. Their active participation showcased their innovative thinking and teamwork spirit at the state-level event.

National-Level Participation

VJ Hackathon 2023

We proudly recognize our students Jaya Theja Singannagari, Ashish Mangalkari Singh, Shivam Kumar, and Cheruku Shivaram for actively participating in the VJ Hackathon 2023, held at the national level on 24-11-2023. Their involvement reflects their commitment to innovation and collaborative problem-solving on a competitive platform.

18-Hour Hackathon

A team of talented students from our college, including Srija, C. Pallavi, Meenakshi, G. Shivani, Maharaja Chandana, P. Sindhuja, Shistla Lakshmi Sindhu, Rekha Priya, B. Vaishnavi, Cheekati Akshaya, Ganji Thanmai, and N. Priya, actively participated in the 18-Hour National Hackathon held from 23rd to 25th November 2023. Their enthusiastic involvement highlighted their problem-solving skills and innovative thinking on a national platform.

36-Hour Hackathon

Our students showcased their dedication and innovative thinking at the 36-Hour National Hackathon held on 26th & 27th August 2023. Participants included G. Vineeth Kumar, Jupalli Jeevan Kumar, Pegadapally Alfa Prasanna, Bablu Sinha, Gaibe Swathi, Kalluri Venkata Sai Lohith, Noothpally Saiteja, Madiwal Shiva, Shaik Moulashareef, Madlapelly Manisha, Gandhe Monish, and Sangem Rahul. Their participation reflects their strong commitment to technological excellence and collaborative learning.

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Dept. of Computer Science and Engineering



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