Madanapalle Institute of Technology & Science

(UGC Autonomus Institution)

Angallu (V), Madanapalle-517325

Annamayya District, Andhra Pradesh, India
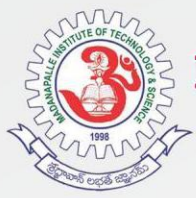
NEWSLETTER

Issue -1
July -December 2023

Vision

To become a globally recognized research and academic institution and thereby contribute to technological and socio-economic development of the nation.

Mission

To foster a culture of excellence in research, innovation, entrepreneurship, rational thinking and civility by providing necessary resources for generation, dissemination and utilization of knowledge and in the process create an ambience for practice-based learning to the youth for success in their careers.

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Editorial Team:

Editor-in-chief
Dr. C. Kamal Basha, Vice principal (Administration)

Student Coordinators
Mr. Nihanth Nelavanka– II Year (EEE)
Ms. T. Shravya– II Year (EEE)
Mr. T. Chaithanya Lakshmi – II Year (EEE)

Contents

Message from Principal

I'm delighted to extend a warm welcome to all readers through the bi-annual newsletter of Madanapalle Institute of Technology & Science (MITS). This newsletter acts as a vital link, connecting our institution with its various stakeholders. As the Principal of MITS, I firmly believe in the power of effective communication in fostering a strong sense of community and solidarity among us. Through this newsletter, our objective is to spotlight the accomplishments, initiatives, and advancements within our college community.

It acts as a platform to applaud the achievements of our students, recognize the achievements of our faculty, and exhibit the progress we're making towards academic excellence and holistic development. I urge each one of you to actively immerse yourselves in the content of this newsletter, as it mirrors the collective endeavors and aspirations of our MITS family. Let's persist in collaborating, inspiring each other, and propelling our institution towards greater echelons of success and innovation.

Dr. C. Yuvaraj
Principal, Madanapalle Institute of Technology & Science.

Message from Vice Principal (Administration)

In this edition of our bi-annual newsletter, we're excited to shine a spotlight on the liveliness and energy pulsating within our college community. From academic milestones to extracurricular victories, this newsletter encapsulates the very spirit of our shared voyage towards greatness. As we traverse through these times, it's truly inspiring to witness the unwavering resilience and unwavering determination of our students, faculty and staff.

We continue to steadfastly uphold the values of innovation, collaboration, and integrity that are the bedrock of MITS. I invite you to explore the achievements shared within the pages and join us in celebrating the invincible spirit of MITS.

Dr. C. Kamal Basha,
Vice Principal (Administration) & Editor–in–chief, NEWSLETTER.

About MITS

Madanapalle Institute of Technology & Science is established in 1998 in the picturesque and pleasant environs of Madanapalle and is ideally located on a sprawling 26.17-acre campus on Madanapalle - Anantapur Highway (NH-205) near Angallu, about 10km away from Madanapalle.

MITS, originated under the auspices of Ratakonda Ranga Reddy Educational Academy under the proactive leadership of Late Sri. N. Krishna Kumar M.S. (U.S.A), the then President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary & Correspondent of the Academy.

MITS is governed by a progressive management that never rests on laurels and has been striving conscientiously to develop it as one of the best centers of Academic Excellence in India. The Institution's profile is firmly based on strategies and action plans that match changing demands of the nation and the students' fraternity. MITS enjoys constant support and patronage of NRI's with distinguished academic traditions and vast experience in Engineering & Technology.

Guest Lectures

- A one-day Guest Lecture on "**How Chemistry Can Shape the World?**", was organized by Department of Chemistry on 01.07.2023.

- A one-day Guest Lecture on **"Career Guidance to IT Industry"**, Organized by Department of Electrical and Electronics Engineering on 17.07.2023.

- A one-day Guest Lecture on **"Pathway Towards Software Opportunities",** was organized by Department of Electrical & Electronics Engineering on 05.08.2023.

- A one-day Guest Lecture on **"Tech Talk in cloud and network security: Getting Ready to Placement"**, was organized by Department of Computer Science & Engineering-Data Science on 11.08.2023.

- A one-day Guest Lecture on **"Importance of DevOps in Software Industry"**, was organized by Department of Electrical & Electronics Engineering on 18.08.2023.

- A one-day Alumni Guest Lecture on **"Web Development"**, was organized by Development of Computer Science & Engineering on 01.09.2023.

- A one-day Guest Lecture on **"Emerging Trends on Cloud Migration & Modernization"**, was organized by Department of Computer Science & Engineering–Cyber Security on 02.09.2023.

- A one-day Alumni Guest Lecture on **"DevOps & AIOps Career Planning "**, was organized by Department of Electrical and Electronics Engineering on 08.09.2023.

- A one-day Guest Lecture on **"Bridging the Gap between Theoretical and Practical applications in Civil Engineering"**, was organized by Department of Civil Engineering on 22.09.2023.

- A one–day Guest Lecture on **"Exploratory Data Analysis in machine Learning Using Python"**, was organized by Department of Computer Science & Technology on 27.09.2023.

- A one-day Guest Lecture on **"Career Development"** was organized by Department of Civil Engineering on 07.10.2023.

- A one-day Alumni Guest Lecture on **"Employability skills for the future"** was organized by Department of Computer Science & Technology on 17.10.2023.

- A one-day Guest Lecture on **"Networking for Entrepreneurial Success"** was organized by Department of Management Studies on 20.10.2023.

Guest Lectures

- A one-day Guest lecture on **"Enhancing Personality Skills in the Digital World"** was organized by Department of English & Foreign Languages on 02.11.2023.

- A one-day Guest-Lecture on **"Rule-based Approach for Peak Shaving with Energy Storage"** was organized by Department of Electrical & Electronics Engineering in association with: IEEE and ISTE student chapters, MITS on 02.11.2023.

- An Alumni Guest Lecture on **"How to become SRE and Global Opportunities"**, was organized by Department of Electrical & Electronics Engineering in association with Alumni Welfare Association & IIIC, MITS on 03.11.2023.

- A one-day Guest-Lecture on **"Role of Optimization Techniques in Electrical Engineering"** was organized by Department of Electrical & Electronics Engineering association with IEEE and ISTE student chapters, MITS on 04.11.2023.

- A one-day Guest Lecture on **"The Seven Habits of Highly Effective People"**, was organized by Department of Management Studies in Association with Entrepreneurship Development Cell-MITS on 04.11.23.

- A one-day Guest Lecture titled **"Waste water source and characteristic impacts on environment and sustainable treatment approach"**, was organized by Department of Civil Engineering on 12.11.2023.

- A one-day Guest Lecture titled **"Traffic Flow Models for Urban Roads under Indian Traffic Conditions"**, was organized by Department of Civil Engineering on 12.11.2023.

- A one-day Guest Lecture on **"Project Management Office Toolkit in JIRA Environment"**, was organized by Department of Computer Science & Technology on 15.11.2023.

- A one-day Guest Lecture on **"Wood and Wood Derived Polymers for Sustainable Design of Emerging Application"** was organized by Department of Chemistry on 16.11.2023.

- A one-day Guest Lecture on **"Crafting Embedded Systems with C/C++: Getting into Open BMC Project"** was organized by Department of Computer Science & Engineering in association with Institution Innovation Cell (IIC) on 16.11.2023.

- A one-day Guest Lecture titled **"Neural Network and Deep Learning"**, was organized by Department of Computer Science & Engineering on 16.11.2023.

- A one-day Guest Lecture titled **"Soft Skills for Managers and Entrepreneurs"**, was organized by Department of Management Studies held on 16.11.2023.

Guest Lectures

- A one-day Guest Lecture on **"Image processing & Computer Vision"**, was organized by Department of Computer Science and Engineering - Data Science on 17.11.2023.

- A one-day Guest Lecture **"Full Stack Development"** was organized by MITS WEB CLUB in Association with Computer Society of India (CSI) on 18.11.2023.

- A one-day Guest Lecture on **"Post Quantum Cryptography"**, was organized by Department of Computer science & Engineering on 20.11.2023.

- An Alumni Guest Lecture on **"Challenges in Developing Mobile Apps"**, was organized by Department of Computer Science & Engineering on 22.11.2023.

- A one-day Guest Lecture on **"Software Product Management"** was organized by Department of Computer Science & Engineering on 22.11.2023.

- A one-day Guest Lecture on **"Sustainable energy storage systems: From materials to Devices"** was organized by Department of Electronics & Communication Engineering on 28.11.2023.

- A one-day Guest Lecture on **"Career Guidance to Core Opportunities"** was organized by Electrical & Electronics Engineering on 28.11.2023.

- A one-day Guest Lecture on **"Employability Initiative for the Next Generation Using Business Intelligence"** was organized by Department of Computer Science & Engineering on 29.11.2023.

- A one-day Guest Lecture on **"Data Science for Engineers"** was organized by Department of Computer Science & Engineering on 02.12.2023.
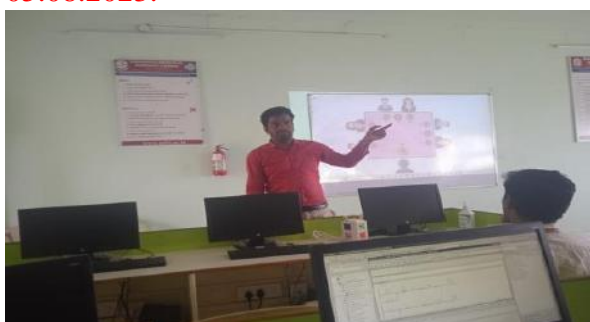

- An Alumni Guest Lecture on **"Career Progression Journey towards Successful Employment"** was organized by Department of Computer Science & Engineering on 02.12.2023.

- A one-day Guest lecture on **"Recent Trends in Mechanical Engineering"**, was organized by Department of Mechanical Engineering on 11.12.2023.

- A one-day Guest Lecture on **"Sustainable Engineering"**, was organized by Department of Mechanical Engineering on 11.12.2023.

- A one-day Guest Lecture on **"Optimizing Decisions -An Application of OR Models"** was organized by Department of Management Studies on 12.12.2023.

- A one-day Guest Lecture on **"Opportunities for Mechanical Engineering"** was organized by Department of Mechanical Engineering on 12.12.2023.

Faculty Development Programs

- A five-day Faculty Development Program on **"Parametric and Non-Parametric Modelling Using Solid Edge Software"** was organized by Department of Mechanical Engineering from 01.08.2023 to 05.08.2023.

- A five-day Faculty Development Program on **"PLC and SCADA"**, was organized by Department of Electronics and Communication & Engineering in association with Electrical & Electronics Engineering from 01.08.2023 to 05.08.2023.

- A five-day Skill Development Training Programme on **"Architectural Modelling Using REVIT"**, was organized by Skill Development Cell from 10.08.2023 to 14.08.2023.

- A One Week Faculty Development Program on **"Smart Grid and Integration of Distributed Generation"**, was organized by Department of Electrical & Electronics Engineering from 28.08.2023 to 01.09.2023.

- A seven-day International Online Faculty Development Program on **"Industry Grade JAVA – Integrating Testing Framework, SonarQube with a Mini Project"**, was organized by Department of Computer Science & Engineering– Artificial Intelligence from 27.09.2023 to 05.10.2023.

- A three-day Online Faculty development program on **"Introductory Universal Human Values (UHV)"**, was organized by UHV Cell, in association with NCC-IP, AICTE from 05.10.2023 to 07.10.2023.

- A five-day FDP on "**Engineering Research Application of Artificial Intelligence (AI), Machine Learning (ML), and Internet of Things (IoT) using MATLAB**" was organized by Department of Electronics & Communication Engineering from 20.11.2023 to 24.11.2023.

- A six-day AICTE-ATAL sponsored FDP on "**Sustainable Machining for Tomorrow: Machine Learning Based Approach**" was organized by Department of Mechanical Engineering from 11.12.2023 to 16.12.2023.

Seminars

- A one-day Seminar on **"Role of Artificial Intelligence in Medical Image Processing"**, was organized by Department of Electronics and Communication Engineering on 04.07.2023.
- A one-day Seminar on **"Campus to Corporate"**, organized by Department of Computer Science & Engineering – Artificial Intelligence on 14.09.2023.
- A one-day Seminar on "**Career Guidance**" was organized by Department of Computer Science & Engineering - Artificial Intelligence on 18.12.2023.
- A one-day Seminar on "**Writing & Publishing a Research Paper- Research Paper Guide**" was organized by Department of Computer Applications on 20.12.2023.

Webinars

- A one-day Webinar on **"Entrepreneurship Opportunities in the Livestock Sector"**, was organized by Entrepreneurship Development Cell in association with Department of Electrical & Electronics Engineering on 19.08.2023.
- A one-day Webinar on **"An Overview of Anaerobic Digestion Process for Biogas Production"** was organized by Department of Mechanical Engineering on 12.10.2023.
- A one-day Webinar on **"Impact of Big Data on Innovation in Industry"** was organized by Department of Computer Science Engineering - Data Science on 01.11.2023.
- A one-day Webinar on **"Interview Skills Mastery with AI Tools",** was organized by Department of Computer Science & Engineering - Data Science on 10.11.2023.

- A one-day webinar on **"Machine Learning for Mechanical Engineers"** was organized by Department of Computer Science & Engineering on 15.11.2023.
- A one-day Webinar on **"Research Opportunities in Integration of IoT and Blockchain for Smart Applications"** was organized by Department of Computer Science & Engineering on 22.11.2023.

- A one-day Webinar on "**An Insight on Cyber Attacks**" was organized by Department of Computer Science & Engineering - Cyber Security on 23.11.2023.
- A one-day Webinar on "**Digital Marketing**" was organized by Department of Management Studies on 18.12.2023.

Workshops

- A one-day Workshop on **"Hands-on Primer on containers and Micro services"**, was organized by CSE - Artificial Intelligence on 25.07.2023.

- A one-day Workshop on **"Machine Learning for Web Developers",** was organized by Department of Computer Science & Engineering-Artificial Intelligence on 11.08.2023.

- A one-day Workshop on **"Exploring Web-AR & Introduction to Web-AR content creation"**, was organized by Department of Computer Science and Technology on 01.09.2023.

- A one-day Workshop on **"Cyber Security & Industrial Applications"**, was organized by Department of Computer Science and Technology on 21.09.2023.

- A one-day Workshop on "**Block Chain & Hyper-Ledger Fabrication"**, was organized by Department of Computer Science & Technology on 22.09.2023.

- A one-day National Level Students Workshop on **"Industrial Project ideas on Emerging Technologies of 3D Printing, CNC Machining & Robotics for Engineering Applications"**, was organized by Department of Mechanical Engineering on 18.10.2023.

- A one-day Workshop on **"Web Development – Front End"** was organized by MITS- Web Club in association with Computer Society of India (CSI) on 04.11.2023.

- A one-day Workshop on **"No-SQL (MongoDB) and Scalable E-commerce Solutions"** was organized by Department of Computer Science & Engineering- Data Science on 08.11.2023.

- A one-day Workshop on **"Image processing & Computer Vision",** organized by Department of Computer Science and Engineering - Data Science on 17.11.2023.

- A one-day Workshop **"Full Stack Development"** organized by MITS-Web Club in association with Computer Society of India (CSI) on 18.11.2023.

- A one-day Workshop on "**Research Proposal Writing**" was organized by Department of Mechanical Engineering on 14.12.2023.

Industrial Visits

- A one-day Industrial Visit to "**Virkam Solar Power Plant (TTD 10 MW Solar Power Plant)"** was organized by Department of Electrical and Electronics Engineering on 19.07.2023.
- A one-day Industrial Visit to **"Check Dam Leveling"** works at Chipili, Madanapalle. was organized by Department of Civil Engineering on 18.08.2023.
- A one-day Industrial Visit to "**Indira Gandhi Centre for Atomic Research**", was organized by Department of Computer Science & Engineering on 01.09.2023.
- A one-day Industrial Visit to **"Rayalaseema Thermal Power Project (RTPP)"** Muddanur, Kadapa, Andhra Pradesh, was organized by Department of Mechanical Engineering on 08.10.2023.

- A one-day Industrial Visit to **"Delphi TVS-Chennai"** was organized by Department of Electrical & Electronics Engineering on 17.10.2023.

- A one-day Industrial Visit to **"Krishnapatanam Port"**, Andhra Pradesh, was organized by Department of Civil Engineering on 20.11.2023.
- A one-day Industrial Visit to **"National Atmospheric Research Laboratory (NARL)"** Gadanki, Pakala, Andhra Pradesh, was organized by Department of Computer Science & Engineering on 24.11.2023.

- A one-day Industrial Visit to "**BSNL, Meenambakam, Chennai**", was organized by Department of Computer Science & Engineering-Artificial Intelligence on 02.12.2023.
- A one-day Industrial Visit to "**Thirumala Dairy**" located at the Palamaner plant, Chittoor District was organised by Department of Management Studies on 06.12.2023.

- A one-day Industrial Visit to "**Rayalaseema Thermal Power Project (RTPP)**", Andhra Pradesh, was organized by Department of Electrical & Electronics Engineering on 18.12.2023.

Events

- The Department of Management Studies organized a one-day Virtual Orientation Programme on **"Agribusiness Incubation Scheme & Funding Opportunities for Agri-Innovators"** on 06.07.2023.
- The "**77th Independence Day celebrations**" were organized by the Department of Physical Education, MITS, on 15.08.2023.

- The Department of Management Studies conducted a one-day **"visit to an orphanage"** on 15.08.2023.

- The Department of Civil Engineering conducted **"Engineer's Day"** on 15.09.2023.
- The Department of Electrical & Electronics Engineering, in association with MITS Alumni Welfare Association, organized an **"Alumni Meet"** on 02.09.2023.

- The Department of Chemistry conducted **"World Ozone Day"** on 16.09.2023.

- The Department of Computer Science and Engineering – Artificial Intelligence organized an MoU Signing Ceremony with **"Inspire Softech Solutions"**, Chennai, Tamil Nadu, on 14.09.2023.

- A one-day Online Quiz on "Current Affairs", was organized by Entrepreneurship Development Cell in Association with Department of Management Studies on 20.09.2023.
- An **Internal Hackathon** 2023, was organized by Department of Computer Science and Engineering & Data Science on 28.09.2023.

- An **"Orientation Program"** was organized by MITS for the I Year B.Tech students on 04.09.2023.

Events

- An Awareness Program on **"Road Safety" with esteemed guest Mr. O Sivanjaneyulu, Circle Inspector** was organized by Department of Mechanical Engineering on 20.10.2023.

- An "**Induction program**" conducted by Department of Management Studies & Department of Computer Applications for I Year students from 16.10.2023 – 27.10.2023.

- A five-day awareness program on **"Cyber Security"** was organized by CSE-Cyber Security from 09.10.2023- 13.10.2023

- MITS Signed on "**MoU with ExcelR Edtech Pvt. Ltd, Benguluru"** at IEEE Education Society, Leadership Summit 2023, Vishakapatnam with CCoE, DSCI, Govt. of Telangana on 12.10.2023.

- The inauguration ceremony of the **"Data Oracle Club"** was organized by the Department of Computer Science & Engineering - Data Science on 06.11.2023.

- MITS, in association with the MITS Alumni Welfare Association, organized the **"Alumni Meet 2023"** on 04.11.2023.

- An awareness program on the **"Importance of Foreign Language Education in the Global Scenario"** was organized by the Department of English on 07.11.2023.

- A quiz competition on **"Online Current Affairs"** for all management and engineering students was organized by the Entrepreneurship Development Cell in association with the Department of Mechanical Engineering on 08.11.2023.

- The organized A one-day event on **"Remembrance Day of Peter F. Drucker"** was organized by Department of Management Studies on 18.11.2023.

- An awareness program on **"Medical Health Insurance for Teaching and Non-Teaching Staff"** was organized by MITS on 24.11.2023.

- Parents meetings were conducted in November by the Departments of CST, CSE, DS, and EEE to discuss the progress of their children.

- A one-day innovation competition, **"Ideathon'23,"** was organized by the Department of Mechanical Engineering on 23.11.2023.

- A one-day Entrepreneurship Development Program on **"Company Registration and Documentation to Start a New Business"** was organized by Department of Computer Science & Engineering on 24.11.2023.

Events

- A one-day Entrepreneurship Development Programme on **"Company Registration and Documentation to Start a New Business"** was organized by Department of Mechanical Engineering in association with IIC on 29.11.2023.
- An awareness program on **"National Pollution Control Day"** was organized by the Department of Civil Engineering on 02.12.2023.

- An event titled **"Mini-Anveshana"** was organized by Department of CSE- Data Science on 02.12.2023.

- An Awareness Program on "World Soil Day" was organized by Department of Civil Engineering on 05.12.2023.
- A one-day event on "Online Current Affairs" conducted for all engineering students, was organized by Entrepreneurship Development Cell in association with Department of Computer Science & Technology on 06.12.2023.
- An event on **"National Energy Conservation Day"** was organized by Department of Electrical and Electronics Engineering on 14.12.2023.
- MITS organized "Fresher's Day" for all Engineering and Post-Graduation fresher's on 16.12.2023.

Achievement

Prof. C Yuvaraj, Principal of MITS has been awarded as "University Best Principal Award – 2023" from the Honorable Vice Chancellor Prof. G. Ranga Janardhana garu during the Award Ceremony at JNTUA, Ananthapuramu on 13th December, 2023.

Conference

A two-day IEEE "International Conference on Optimization Techniques for Learning (ICOTL'23)" was organized by School of Computers, MITS from 07.12.2023 & 08.12.2023.

Paper Publications

- T.S. Balaji Damodhar, Department of EEE published an article titled "A mutual certificate-based data privacy scheme for ubiquitous and sustainable computing system users" in Sustainable Energy Technologies and Assessments in July- Dec 2023, doi: 10.1016/j.seta.2023.103356.

- Chodagam Srinivas, Department of EEE published an article titled "Addressing Power Loss and Voltage Profile Issues in Electrical Distribution Systems: A Novel Approach Using Polar Bear Gradient-Based Optimization" in International Journal of Electrical and Electronics Research in July- Dec 2023, doi: 10.37391/ijeer.110323.

- Baskaran Selvam, Department of MECH published an article titled "Identification of tool wear and surface morphology measurements in sustainable milling of Al 6082 hybrid metal matrix composite" in Journal of Materials Research and Technology in July- Dec 2023, doi: 10.1016/j.jmrt.2023.11.109.

- Arunkumar D, Department of MECH published an article titled "Experimental Investigations of Flammability, Mechanical and Moisture Absorption Properties of Natural Flax/NanoSiO2 Based Hybrid Polypropylene Composites" in Silicon in July- Dec 2023, doi: 10.1007/s12633-023-02611-3.

- Vladimir Kulish, Department of Mechanical Engineering published an article titled "An optimised deep learning method for the prediction of dynamic viscosity of MXene-based nanofluid" in Journal of the Brazilian Society of Mechanical Sciences and Engineering in July- Dec 2023, doi: 10.1007/s40430-023-04284-w.

- D Arunkumar, Department of Mechanical Engineering published an article titled "Application of potential green algal for power generation as a likely and fractional alternative" in Biomass Conversion and Biorefinery in July- Dec 2023, doi: 10.1007/s13399-023-04870-x.

- Raguraman Purushothaman, Department of Mechanical Engineering published an article titled "Early Prediction of Gestational Diabetes with Parameter-Tuned K-Nearest Neighbor Classifier" in Journal of Robotics and Control (JRC) in July-Dec 2023, doi: 10.18196/jrc.v4i4.18412.

- Anantha Raman Lakshmipathi, Department of Mechanical Engineering published an article titled "Shear strength, wear, thermal conductivity, and hydrophobicity behavior of fox millet husk biosilica and Amaranthus dubius stem fiber–reinforced epoxy composite: a concept of biomass conversion" in Biomass Conversion and Biorefinery in July- Dec 2023, doi: 10.1007/s13399-023-04854-x.

- Manish Sharma, Department of Mechanical Engineering published an article titled "A study of the effect of curvature and pressure gradient on aerodynamics performance and turbulence structure of S-shaped compressor transition duct" in Australian Journal of Mechanical Engineering in July- Dec 2023, doi: 10.1080/14484846.2023.2229982.

- Hemantha, G.R, Department of ECE published an article titled "An Optimized Resource Allocation Model for Cloud Computing Using Ant Colony-based Auction Method" in International Journal of Intelligent Systems and Applications in Engineering in July- Dec 2023, doi:https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174824712&partnerID=40&md5=3cf68b748a0709cb15c4f0069e2fec57.

- Rakesh N. Tiwari, Department of ECE published an article titled "Compact dual band 4-port MIMO antenna for 5G-sub 6 GHz/N38/N41/N90 and WLAN frequency bands" in AEU - International Journal of Electronics and Communications in July-Dec 2023, doi: 10.1016/j.aeue.2023.154919.

- Shanthi, T, Department of ECE published an article titled "A Novel approach Secure Routing in Wireless Sensor Networks for Safe Path Establishment of Private IoT Data Transmission" in International Journal of Intelligent Systems and Applications in Engineering in July- Dec 2023, doi:https://www.scopus.com/inward/record.uri?eid=2-s2.0-85171333784&partnerID=40&md5=01064eb2335f96670a700aee60fef838.

Paper Publications

- Janmoni Borah, Smriti Baruah, Timmigani Dinesh, Kandlapalli Divya, Shaik Faseeha Anjum & Subramaniam Rajasekaran, Department of ECE published an article titled "Transmit Power Allocation for Sub-6GHz/mmWave-based 5G Cellular Network" in Radioelectronics and Communications Systems in July- Dec 2023, doi: 10.3103/S0735272723060043.

- Sourav Ghosh, Department of ECE published an article titled "Temperature dependent performance analysis of all-oxynitride asymmetric solid-state supercapacitor" in Journal of Energy Storage in July- Dec 2023, doi: 10.1016/j.est.2023.109563.

- Rakesh N. Tiwari, Department of ECE published an article titled "Design and Validation of Loop-Based Ultraminiature Low-Profile Ultrawideband Capsule Antenna Inside Wistar Rat" in IEEE Transactions on Antennas and Propagation in July-Dec 2023, doi: 10.1109/TAP.2023.3301952.

- Smriti Baruah, Janmoni Borah, Department of ECE published an article titled "Optimization of all inorganic perovskite solar cell with dual active layers for beyond 29% efficiency" in Solar Energy in July- Dec 2023, doi: 10.1016/j.solener.2023.111939.

- Janmoni Borah, Smriti Baruah, Saranya Rayasam, Sarath Chandrika Rayapati & S. P. Kumar Reddy, Department of ECE published an article titled "5G Cellular Network Coverage with KUD-based SC Deployment" in Radio Electronics and Communications Systems in July- Dec 2023, doi: 10.3103/S0735272723100047.

- R. Kiran Kumar, Department of ECE published an article titled "Biometric key generation and multi round AES crypto system for improved security" in Measurement: Sensors in July- Dec 2023, doi: 10.1016/j.measen.2023.100931.

- Janmoni Borah, Smriti Baruah, Ganjiguntla Bhargavi, Palagiri Durgaprasad & Boya Damodar, Department of ECE published an article titled "Transmit Antenna Selection for Achieving Energy Efficiency in Massive MIMO Based 5G Cellular Network" in Radio Electronics and Communications Systems in July- Dec 2023, doi: 10.3103/S0735272723020048.

- Ezhumalai A.; Palaniappan R., Department of ECE published an article titled "Koch Snowflake Fractal Embedded Octagonal Patch Antenna with Hexagonal Split Ring for Ultra-Wide Band and 5G Applications" in Progress in Electromagnetics Research C in July-Dec 2023, doi: 10.2528/PIERC23050702.

- Dr R Sudhakar, Dr P V Venkateswara Rao, Department of CSE published an article titled "Digital Image Anti-Forensic Model Using Exponential Chaotic Biogeography-Based Optimization Algorithm" in Computer Journal in July-Dec 2023, doi: 10.1093/comjnl/bxac148.

- Kumar S.S, Department of CSE published an article titled "Optimized Fuzzy C-Means (FCM) Clustering for High-Precision Brain Image Segmentation and Diagnosis using Densenet Features" in Journal of Theoretical and Applied Information Technology in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85182895551&partnerID=40&md5=3c064aad15266ae7d4ff7ef8399992a7.

- Sundar R, Department of CSE published an article titled "Electronic Health Record Sharing in Cloud Computing with Privacy and Security Preservation Using Blockchain Technology" in International Journal of Intelligent Systems and Applications in Engineering in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85172022538&partnerID=40&md5=0633dab0d0a05522f527d2b9eb391ba3.

- R. Nidhya, Department of CSE published an article titled "Hybrid Tasmanian Devil and Improved Simulated Annealing-Based Clustering Algorithm for Improving Network Longevity in Wireless Sensor Networks (WSNs)" in Wireless Personal Communications in July-Dec 2023, doi: 10.1007/s11277-023-10674-z.

Paper Publications

- Sundar, R, Department of CSE published an article titled "Design Energy Aware Optimized Grey Wolf Based Recurrent Neural Scheme for Bio Medical Application in Wireless Sensor Platform" in International Journal of Intelligent Systems and Applications in Engineering in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85171993020&partnerID=40&md5=7703b48236d3ad039ec2b8d4ba9f5ab1.

- Sreenivasa, K, Department of CSE published an article titled "ECG based cardiac disorder classification using MobileNetV3 and LSTM" in Asia-Pacific Journal of Science and Technology in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85171385423&partnerID=40&md5=2ae78243ad88e8a751477d18741936b7.

- Prasanth V S, Department of CSE published an article titled "Dynamic Key Generation and Distribution Comparison using Machine Learning Integrated Node Authentication Routing Protocol for Improving QOS in Vanet" in Malaysian Journal of Computer Science in July-Dec 2023, doi: 10.22452/mjcs.sp2023no1.2.

- K. Sudhakar, Department of CSE published an article titled "Optimized feature selection-driven convolutional neural network using gray level co-occurrence matrix for detection of cervical cancer" in Open Life Sciences in July-Dec 2023, doi: 10.1515/biol-2022-0770.

- R. Kalpana, Department of CSE published an article titled "Internet of Things (IOT) Based Machine Learning Techniques for Wind Energy Harvesting" in Electric Power Components and Systems in July-Dec 2023, doi: 10.1080/15325008.2023.2293952.

- Sudhakar Raju, Department of CSE published an article titled "Classification of brain tumours from MRI images using deep learning-enabled hybrid optimization algorithm" in Network: Computation in Neural Systems in July-Dec 2023, doi: 10.1080/0954898X.2023.2275045.

- Simpson S.V.; Ravi Raju Y.; Bhanu Rajesh Naidu K.; Venu G., Department of CST published an article titled "Secure Trust: a blockchain-enabled trust and reputation system for malicious node detection in IOT Networks" in International Journal of Information Technology (Singapore) in July-Dec 2023, doi: 10.1007/s41870-023-01467-5.

- Nagappan Mageshkumar, Department of CST published an article titled "Hybrid cloud storage system with enhanced multilayer cryptosystem for secure deduplication in cloud" in International Journal of Intelligent Networks in July-Dec 2023, doi: 10.1016/j.ijin.2023.11.001.

- Dinesh K, Department of CST published an article titled "Temperature analysis of hydrodynamic journal bearing lubrication with a moving journal and a fixed bearing" in Advances in Materials and Processing Technologies in July-Dec 2023, doi: 10.1080/2374068X.2023.2249720.

- R. Manikandan, Department of CST published an article titled "Adaptive cloud orchestration resource selection using rough set theory" in Journal of Interdisciplinary Mathematics in July-Dec 2023, doi: 10.47974/JIM-1662.

- Dinesh Karunanidy, Nandhini Mahadevan, Department of CST, CSE-DS published an article titled "MOJMA: A novel multi-objective optimization algorithm-based Java Macaque Behavior Model" in AIMS Mathematics in July-Dec 2023, doi: 10.3934/math.20231545.

- Bandi Vamsi, Department of CSE-AI published an article titled "An Efficient, Lightweight, Tiny 2D-CNN Ensemble Model to Detect Cardiomegaly in Heart CT Images" in Journal of Personalized Medicine in July-Dec 2023, doi: 10.3390/jpm13091338.

- J. Viswanath, Department of CSE-AI published an article titled "Vigilant Salp Swarm Algorithm for Feature Selection" in Computing and Informatics in July-Dec 2023, doi: 10.31577/cai_2023_4_805.

Paper Publications

- Vamsi, Bandi, Department of CSE-AI published an article titled "Lexical Based Reordering Models for English to Telugu Machine Translation" in Revue d'Intelligence Artificielle in July-Dec 2023, doi: 10.18280/ria.370503.

- Kumar, A.K, Department of CSE-DS published an article titled "OLGV3 Net: Optimized Lightgbm with Inceptionv3 for Accurate Multi-Class Breast Cancer Image Classification" in Journal of Theoretical and Applied Information Technology in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85182885418&partnerID=40&md5=6f139755cedeee3f260d49f4f1e136d1.

- Gunipati Kanishka, Department of CSE-CS published an article titled "A Framework for Tweet Classification and Analysis on Social Media Platform using Federated Learning" in Malaysian Journal of Computer Science in July-Dec 2023, doi: 10.22452/mjcs.sp2023no1.8.

- Abbasi, Department of Mathematics published an article titled "Some Commutativity Criteria for Prime Rings with Involution Involving Symmetric and Skew Symmetric Elements" in Ukrainian Mathematical Journal in July-Dec 2023, doi: 10.1007/s11253-023-02214-6.

- Adnan Abbasi, Department of Mathematics published an article titled "Characterization of prime rings having involution and centralizers" in Proyecciones in July-Dec 2023, doi: 10.22199/issn.0717-6279-5897.

- Padmaja K, Department of Mathematics published an article titled "Cross-Diffusion and Higher-Order Chemical Reaction Effects on Hydromagnetic Copper–Water Nanofluid Flow Over a Rotating Cone in a Porous Medium" in Journal of Multiscale Modelling in July-Dec 2023, doi: 10.1142/S1756973723500063.

- Ahsan Mahboob, Department of Mathematics published an article titled "Fuzzy (m, n)-filters based on fuzzy points in ordered semigroups" in Computational and Applied Mathematics in July-Dec 2023, doi: 10.1007/s40314-023-02381-z.

- Mahboob, Department of Mathematics published an article titled "On a Generalization of Fuzzy Filters of Ordered Semigroups" in New Mathematics and Natural Computation in July-Dec 2023, doi: 10.1142/S1793005723500187.

- Mahboob, Department of Mathematics published an article titled "A Novel Study Based on Fuzzy p-Ideals of BCI-Algebras" in Journal of Function Spaces in July-Dec 2023, doi: 10.1155/2023/9453596.

- Abbasi, Department of Mathematics published an article titled "A study on generalized matrix algebras having generalized Lie derivations" in Algebra and Discrete Mathematics in July-Dec 2023, doi: 10.12958/adm1722.

- Abbasi, A., Department of Mathematics published an article titled "A note on B-generalized Derivations in Rings with Involution" in Italian Journal of Pure and Applied Mathematics in July-Dec 2023, doi: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85166298002&partnerID=40&md5=ff9d32432e2bf24e7e968287c9e4f344.

- Chalapathi, T., Department of Mathematics published an article titled "The radiative composite (NiCr + TC4/H2O) mixture nanofluid flow over a non-linear spinning stretching sheet with the impact of variable Lorenz force and slip condition" in Numerical Heat Transfer; Part A: Applications in July-Dec 2023, doi: 10.1080/10407782.2023.2272793.

- Adnan Abbasi, Department of Mathematics published an article titled "A Study of Differential Identities on Σ-Prime Rings" in Communications of the Korean Mathematical Society in July-Dec 2023, doi: 10.4134/CKMS.c220240.

- Ahsan Mahboob, Department of Mathematics published an article titled "M-Polar cubic p(q and a)-ideals of BCI-Algebras" in Discrete Mathematics, Algorithms and Applications in July-Dec 2023, doi: 10.1142/S1793830923500131.

Paper Publications

- Lokendra P. Singh, Department of Physics published an article titled "Glass transition phenomena and dielectric relaxations in supercooled D-lyxose aqueous solutions" in Carbohydrate Research in July-Dec 2023, doi: 10.1016/j.carres.2023.108917.
- Chandra Sekhar Musalikunta, Department of Physics published an article titled "Recent endeavors and perspectives in developing solution-processable host materials for thermally activated delayed fluorescence organic light-emitting diodes" in Journal of Materials Chemistry C in July-Dec 2023, doi: 10.1039/d3tc02794e.
- Chandra Sekhar M, Department of Physics published an article titled "Mn–Co Prussian blue analogue cubic frames for efficient aqueous Zn ion batteries" in Microporous and Mesoporous Materials in July-Dec 2023, doi: 10.1016/j.micromeso.2023.112793.
- Charan Kuchi, Department of Physics published an article titled "Hierarchical $NiCo_2O_4/NiO$ mixed nanofibers for enhanced supercapacitor and ammonia gas sensor applications" in Inorganic Chemistry Communications in July-Dec 2023, doi: 10.1016/j.inoche.2023.111405.
- Charan Kuchi, Department of Physics published an article titled "Zinc oxide nanoparticles as an efficient antioxidant, photocatalyst, and heterogeneous catalyst in C–P bond synthesis" in Results in Chemistry in July-Dec 2023, doi: 10.1016/j.rechem.2023.101227.
- Nanda Kumar Reddy N, Department of Physics published an article titled "Yttria activated lanthanum -barium titanate ceramic electrode for fast charging supercapacitor applications" in Journal of Molecular Structure in July-Dec 2023, doi: 10.1016/j.molstruc.2023.136352.
- Obinna C. Godfrey, Department of Chemistry published an article titled "Insight into the crystal structure analysis, vibrational studies, reactivities (MESP, HOMO-LUMO, NBO), and the anticancer activities of ruthenium diazide [Ru(POP)(PPh3)(N3)2] complex by molecular docking approach" in Inorganic Chemistry Communications in July-Dec 2023, doi: 10.1016/j.inoche.2023.111714.
- Tulasi Barik, Department of Chemistry published an article titled "Highly Porous Polypyrrole (PPy) Hydrogel Support for the Design of a Co-N-C Electrocatalyst for Oxygen Reduction Reaction" in ACS Applied Materials and Interfaces in July-Dec 2023, doi: 10.1021/acsami.3c08022.
- P. Amaladass, Department of Chemistry published an article titled "Recent synthetic strategies for the construction of functionalized carbazoles and their heterocyclic motifs enabled by Lewis acids" in RSC Advances in July-Dec 2023, doi: 10.1039/d3ra06396h.
- M. Muralidhar Singh, Department of Chemistry published an article titled "Geomechanical characteristics and failure analysis of the limestone slope at Sahastradhara–Chamasari road Dehradun Uttarakhand India" in Innovative Infrastructure Solutions in July-Dec 2023, doi: 10.1007/s41062-023-01214-6.
- Rajendran Rajaram, Department of Chemistry published an article titled "Investigating the structure, bonding, and energy decomposition analysis of group 10 transition metal carbonyls with substituted terminal germanium chalcogenides [M(CO)3GeX] (M = Ni, Pd, and Pt; X = O, S, Se, and Te) complexes: insight from first-principles calculations" in Journal of Molecular Modeling in July-Dec 2023, doi: 10.1007/s00894-023-05745-8.
- Balaji Mohan, Department of Chemistry published an article titled "Controlled Synthesis and Uniform Anchoring of Hollow Cu_xO Nanocubes on Carbon Nanofiber for Enhanced Se(S)-Se(S) Bond Activation" in Inorganic Chemistry in July-Dec 2023, doi: 10.1021/acs.inorgchem.3c01860.
- Dr. Sanoop Pulassery, Department of Chemistry published an article titled "A Practical Nanoplasmonic SERS Substrate for Differential Diagnosis of Lung Normal and Cancer Cells through Multivariate Statistical Analysis" in ChemNanoMat in July-Dec 2023, doi: 10.1002/cnma.202300378.

Paper Publications

- Tulasi Barik, Department of Chemistry published an article titled "A polypyrrole derived nitrogen doped porous carbon support for an atomically dispersed Mn electrocatalyst for the oxygen reduction reaction" in Sustainable Energy and Fuels in July-Dec 2023, doi: 10.1039/d3se00495c.

- Althaf Ali A, K. Hemalatha, Department of Computer Applications, CSE-AI published an article titled "An Enhanced Analysis of Blood Cancer Prediction Using ANN Sensor-Based Model" in Engineering Proceedings in July-Dec 2023, doi: 10.3390/engproc2023059065.

- N. Nirmala Devi, Department of Computer Applications published an article titled "Developing a Hybrid Faster Recurrent Convolutional Neural Network with an Improved Weighted Artificial Bee Optimization Method for Grape Disease Detection at an Early Stage" in SSRG International Journal of Electronics and Communication Engineering in July-Dec 2023, doi: 10.14445/23488549/IJECE-V12I1P113.

Research Projects Sanctioned

- Mishra, B.P., Department of CE, published a project titled "Static Analysis of Composite Plates using NURBS Augmented Finite Element Method" under the DST-SERB-CRG scheme with reference number CRG/2023/004601, amounting to ₹16,10,000.00.

- Roy, D., Department of CE, published a project titled "Ag-Au Nano Array Microfluidic Lab on Chip Fabrication for Detection of Bio Samples using Raman Spectroscopy" under the DST-SERB-TARE scheme with reference number TAR/2023/000342, amounting to ₹15,00,000.00.

- Varma, D.N., Department of MEC, published a project titled "Compact Sustainable Origami Based Furniture" under the MSME IDEA HACKATHON 2.0 (Theme Based), with reference number No. 17(2)/ MSME Innovative/PMAC/2021-22 dated: 27/06/2023, and reference number IDEAAP006864, amounting to ₹3,70,000.00.

- Kumar, S., Department of ECE, published a project titled "An Intelligent Crowd Behavior Analysis System in Video Sequences" under the MSME IDEA HACKATHON 2.0 (Theme Based), with reference number No. 17(2)/ MSME Innovative/PMAC/2021-22 dated: 27/06/2023, and reference number IDEAAP005987, amounting to ₹8,70,000.00.

- Behera, B.R., Department of ECE, published a project titled "AI-Driven Metasurface Based Antenna Designing and its Implementation for RF Energy Harvesting in Medical and Healthcare Applications" under the MSME IDEA HACKATHON 2.0 (Theme Based), with reference number No. 17(2)/ MSME Innovative/PMAC/2021-22 dated: 27/06/2023, and reference number IDEAAP006018, amounting to ₹12,20,000.00.

Conference Papers

- J. Jawahar Babu, Department of EEE presented a paper titled "A Novel Methodology Design to Predict Employee Attrition by Using Hybrid Learning Strategy" in Proceedings of the 2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2023 in July-Dec 2023, doi: 10.1109/ICSES60034.2023.10465555.

- T. S. Balaji Damodhar, Department of EEE presented a paper titled "IoT Enabled Space Vector Modulation Control for Multilevel Converters in Renewable Energy Systems" in 2023 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2023 in July-Dec 2023, doi: 10.1109/PEEIC59336.2023.10450937.

- M. Venkatesh, Department of EEE presented a paper titled "IoT Enabled Microgrid System for Enhancing Power Quality Using Adaptive Neuro-Fuzzy Control Algorithm" in 2023 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2023 in July-Dec 2023, doi: 10.1109/PEEIC59336.2023.10451678.

- A V Pavan Kumar; C Kamal Basha; Ch Srinivas, Department of EEE presented a paper titled "Electric Vehicles Battery Management Device - Opportunities and Implications" in 1st International Conference on Emerging Research in Computational Science, ICERCS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICERCS57948.2023.10434054.

- M. Venkatesh, Department of EEE presented a paper titled "IoT-Based Car Safety System With Airbag Notification for Emergency Assistance" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391442.

- M. Venkatesh, Department of EEE presented a paper titled "Electric Vehicle Based Hybrid Energy Storage System using IoT" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391579.

- K S Rajesh, Department of EEE presented a paper titled "Fuzzy Logic Controlled Photovoltaic system with IoT Technology" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391552.

- T. S. Balaji Damodhar, Department of EEE presented a paper titled "Integrating Cloud Computing with IoT for Battery Monitoring in Electric Vehicles" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391798.

- Thurai Raaj V B, Department of EEE presented a paper titled "Efficient Method to Monitor Power Consumption in Industry Using Lorawanand Rs485 Retrofit" in 2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023 in July-Dec 2023, doi: 10.1109/ICCCNT56998.2023.10308141.

- K Praneeth Guptha; N Sowmya; S S Jaheer Hussain; G Siva Nanda Kishore, Department of EEE presented a paper titled "Phase Locked Loop (PLL) MPPT Based Single Stage Grid-Connected PV System" in 2023 1st International Conference on Circuits, Power, and Intelligent Systems, CCPIS 2023 in July-Dec 2023, doi: 10.1109/CCPIS59145.2023.10291632.

- Chodagam Srinivas, Department of EEE presented a paper titled "Control Strategy for Load Frequency Control in Power Systems with Electric Vehicle Charging Stations" in 2023 3rd Asian Conference on Innovation in Technology, ASIANCON 2023 in July-Dec 2023, doi: 10.1109/ASIANCON58793.2023.10270616.

- Amar Sheelwant, Department of Mechanical Engineering presented a paper titled "A review on analytical models for predicting forming force in incremental forming processes" in AIP Conference Proceedings in July-Dec 2023, doi: 10.1063/5.0168476.

Conference Papers

- M. Lakshman Rao, Department of Mechanical Engineering presented a paper titled "Application of Machine Learning and Deep Learning Algorithms to the Prediction of Stock Market Trends" in 2023 Global Conference on Information Technologies and Communications, GCITC 2023 in July-Dec 2023, doi: 10.1109/GCITC60406.2023.10426519.

- Anantha Raman Lakshmipathi, Department of Mechanical Engineering presented a paper titled "AI-based Prognostic Analysis of NOx Emission from Industrial Diesel Engine for Feedback Control System" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435308.

- Potta Sivaiah, Department of Mechanical Engineering presented a paper titled "Artificial Intelligence Model for Machinability Investigations on Drilling of AA6061 with Micro Textured Tool for Automobile Applications" in SAE Technical Papers in July-Dec 2023, doi: 10.4271/2023-28-0082.

- G. Mallikarjunachari & P. Mohammad Asif Khan, Department of Mechanical Engineering presented a paper titled "Enhancing Structural Properties of Wood and Its Composites by Mechanical Annealing" in Lecture Notes in Civil Engineering in July-Dec 2023, doi: 10.1007/978-981-19-9394-7_16.

- Krishna Chaitanya Katakam, Department of Mechanical Engineering presented a paper titled "Experiment and atomistic simulation of uniaxial compression of Ni–W single-crystal alloy" in Materials Today: Proceedings in July-Dec 2023, doi: 10.1016/j.matpr.2023.04.508.

- Jagannath Pattar, Department of Mechanical Engineering presented a paper titled "Investigating the Multifaceted Applications of Nanotechnology in Wireless Sensor Networks for Environmental Monitoring: Advancing Monitoring Capabilities for a Sustainable Future" in 2023 International Conference on Sustainable Emerging Innovations in Engineering and Technology, ICSEIET 2023 in July-Dec 2023, doi: 10.1109/ICSEIET58677.2023.10303440.

- T. Shanthi, Department of ECE presented a paper titled "Raspberry Pi Pico Based Real Time Patient Health Monitoring System" in 2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023 in July-Dec 2023, doi: 10.1109/ICCEBS58601.2023.10448915.

- G. Reddy Hemantha, Department of ECE presented a paper titled "Switch Controlled State Skipping Based Memory Efficient Test Pattern Generator for BIST Application" in 2023 2nd International Conference on Advances in Computational Intelligence and Communication, ICACIC 2023 in July-Dec 2023, doi: 10.1109/ICACIC59454.2023.10435300.

- Reddy G, Department of ECE presented a paper titled "Critical Review on Heart Disease Prediction: A Machine Learning Approach" in Proceedings of IEEE 2023 5th International Conference on Advances in Electronics, Computers and Communications, ICAECC 2023 in July-Dec 2023, doi: 10.1109/ICAECC59324.2023.10560226.

- Irfan Basha S; Hemanth P; Adikesava Naidu G, Department of ECE presented a paper titled "Design of High Noise Tolerant Single-Bit Line 8T SRAM Cell" in IEEE International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems, ICAECIS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICAECIS58353.2023.10170595.

- M Sai Deepak; N. Sireesha; S. Sadiya, Department of ECE presented a paper titled "Implementation of CSMA/CD and Link State Routing Protocols for Dijkstra Algorithm" in 2023 1st International Conference on Circuits, Power, and Intelligent Systems, CCPIS 2023 in July-Dec 2023, doi: 10.1109/CCPIS59145.2023.10292084.

Conference Papers

- Rakesh N. Tiwari, Department of ECE presented a paper titled "High Isolation Dual Port MIMO Antenna for Vehicle-to-Vehicle Communication" in CIEES 2023 - IEEE International Conference on Communications, Information, Electronic and Energy Systems in July-Dec 2023, doi: 10.1109/CIEES58940.2023.10378779.

- K. Sreelekha; C. Sai Sudeep; S. Sreekar; Bikash Ranjan Behera, Department of ECE presented a paper titled "Compact & Efficient Monopole Antenna Designs Based on AI-Driven EM Optimization Techniques" in 2023 International Conference on Artificial Intelligence and Applications, ICAIA 2023 and Alliance Technology Conference, ATCON-1 2023 - Proceeding in July-Dec 2023, doi: 10.1109/ICAIA57370.2023.10169413.

- Vivek Jain, Department of ECE presented a paper titled "Performance Analysis of Side Lobe Reduction for Smart Antenna Systems Using Genetic Algorithms (GA)" in 2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023 in July-Dec 2023, doi: 10.1109/ICCCNT56998.2023.10306796.

- Deepak. M; Mohammed Asif. S; Devaraj. M; S. K. Tripathi, Department of ECE presented a paper titled "Finite Element Analysis of PCE Gas Sensor Based on Acoustic Resonator" in 2023 International Conference on IoT, Communication and Automation Technology, ICICAT 2023 in July-Dec 2023, doi: 10.1109/ICICAT57735.2023.10263606.

- Thanuja Bai, B., Tharun Kumar, B., Tharun Raj, Y., Mahammed Rafi, G, Department of ECE presented a paper titled "Image Forgery Detection using Block Matching and K-Means Clustering Techniques" in Proceedings of the 8th International Conference on Communication and Electronics Systems, ICCES 2023 in July-Dec 2023, doi: 10.1109/ICCES57224.2023.10192805.

- S. Ayesha Tanveer; A. Maneesha; B. Kavya; P. Jahnavi, Department of ECE presented a paper titled "Performance of Spectrum Sensing in Different Fading Environments for Cognitive Radios" in Proceedings of the 8th International Conference on Communication and Electronics Systems, ICCES 2023 in July-Dec 2023, doi: 10.1109/ICCES57224.2023.10192726.

- Nishant Sharan, Department of ECE presented a paper titled "A Hybrid Combination of OMA and NOMA for Integrated VLC-RF System" in 2023 International Conference on Network, Multimedia and Information Technology, NMITCON 2023 in July-Dec 2023, doi: 10.1109/NMITCON58196.2023.10276120.

- J. Ashwani; K. Deepa; K. Charan Kumar; B. Karthick; Nehru Kandasamy, Department of ECE presented a paper titled "Performance Analysis of Different SRAM Cells and Proposed 9T SRAM Cell" in Proceedings of the 8th International Conference on Communication and Electronics Systems, ICCES 2023 in July-Dec 2023, doi: 10.1109/ICCES57224.2023.10192668.

- Dhruba Jyoti Bora; V. Ajithesh Chowdary; P. Chandana; P. Chaithanya, Department of ECE presented a paper titled "Modeling and Simulation of Electrical Circuits to Determine Human Body Impedance" in 2023 5th International Conference on Electrical, Computer and Communication Technologies, ICECCT 2023 in July-Dec 2023, doi: 10.1109/ICECCT56650.2023.10179800.

- U. Siva Sruthi; Bandlu Sai Ruthu; T. Shireesha; S. K. Tripathi, Department of ECE presented a paper titled "Design of a Filter Using Acoustic Resonator for Wi-Fi Applications" in *2023 International Conference on IoT, Communication and Automation Technology, ICICAT 2023* in July-Dec 2023, doi: 10.1109/ICICAT57735.2023.10263598.

- Nishant Sharan, Department of ECE presented a paper titled "Experimental Demonstration of Hybrid PLC-VLC System" in Proceedings of IEEE InC4 2023 - 2023 IEEE International Conference on Contemporary Computing and Communications in July-Dec 2023, doi: 10.1109/InC457730.2023.10263041.

Conference Papers

- R Nidhya; R Kalpana; R Sudhakar, Department of CSE presented a paper titled "Smart System for Vehicle Number Plate Recognition Using Convolutional Neural Network (CNN)" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435179.

- V. Naveen, Department of CSE presented a paper titled "Enhancing the Prediction of Underwater Wireless Communication using Machine Learning Techniques and Related Issues" in 2023 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAAI 2023 in July-Dec 2023, doi: 10.1109/ICDSAAI59313.2023.10452638.

- R. Usha, Department of CSE presented a paper titled "Development of CNN Model to Avoid the Food Spoiling Level" in 2023 International Conference on New Frontiers in Communication, Automation, Management and Security, ICCAMS 2023 in July-Dec 2023, doi: 10.1109/ICCAMS60113.2023.10525936.

- R Nidhya; R Kalpana, Department of CSE presented a paper titled "Brain Tumor Diagnosis with MCNN-Based MRI Image Analysis" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023-Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435262.

- Gunji Sreenivasulu, Department of CSE presented a paper titled "Efficiency and Precision: Control Systems Empowered by Smart Image Processing" in 2023 3rd International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2023 in July-Dec 2023, doi: 10.1109/SMARTGENCON60755.2023.10442573.

- Nirupa V; Renuka G B; Sumanth Kumar C P; Rudra Sekhar Reddy A; Paramesh J, Department of CSE presented a paper titled "Chatbot Based on Emotions Using Deep Learning" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435281.

- M. Bommy, Department of CSE presented a paper titled "Mobile Ad Hoc Networks Supporting Adaptive Threat Detection through Intrusion Detection Effective Use of Machine Learning for Cyber Defense" in Proceedings of the 2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2023 in July-Dec 2023, doi: 10.1109/ICSES60034.2023.10465320.

- BSH Shayeez Ahamed, Department of CSE presented a paper titled "Multi Objective Evaluator Model Development for Analyze the Customer Behavior" in 2023 3rd International Conference on Advancement in Electronics and Communication Engineering, AECE 2023 in July-Dec 2023, doi: 10.1109/AECE59614.2023.10428189.

- G ArunKumar, Department of CSE presented a paper titled "Wireless IoT Gas and Smoke Detection System with ESP8266 and Blynk Integration" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023-Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435228.

- S Elango, Department of CSE presented a paper titled "Microwave Metamaterial Absorber for X, C and Ku Band Applications" in IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023 in July-Dec 2023, doi: 10.1109/ICSSS58085.2023.10407068.

- Thangarasan T, Department of CSE presented a paper titled "Research and Application of Boundary Optimization Algorithm of Forest Resource Vector Data Based on Convolutional Neural Network" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391589.

- G Arunkumar, Department of CSE presented a paper titled "Development of Healthcare Monitoring System with Pollution Control in Industrial Sectors Using the Internet of Things" in Proceedings of the 5th International Conference on Inventive Research in Computing Applications, ICIRCA 2023 in July-Dec 2023, doi: 10.1109/ICIRCA57980.2023.10220589.

Conference Papers

- Kumar Akuthota, Department of CSE presented a paper titled "Enhancing Lung Segmentation Through Preprocessing of Medical Data Using Convolutional Neural Networks" in 5th IEEE International Conference on Cybernetics, Cognition and Machine Learning Applications, ICCCMLA 2023 in July-Dec 2023, doi: 10.1109/ICCCMLA58983.2023.10346717.

- S Elango, Department of CSE presented a paper titled "Ultra-Wideband Frequency Selective Surface for Microwave Band Applications" in IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023 in July-Dec 2023, doi: 10.1109/ICSSS58085.2023.10407099.

- Yallapragada Ravi Raju, Department of CSE presented a paper titled "Diet Recommendation System for Human Health Using Machine Learning" in 7th IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/CSITSS60515.2023.10334162.

- G ArunKumar, Department of CSE presented a paper titled "A Novel Graph Clustering Algorithm with Enhanced Security using Power Method and Homomorphic Encryption" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435058.

- R Usha; G Vasundhara Devi, Department of CSE presented a paper titled "Integrating the Bigdata and Deep Learning Analysis Human Movement to Improve the Sports" in 2023 3rd International Conference on Advancement in Electronics and Communication Engineering, AECE 2023 in July-Dec 2023, doi: 10.1109/AECE59614.2023.10428236.

- T. Thangarasan; G. Arunkumar; Kamsala Gouthami, Department of CSE presented a paper titled "Code word Based Bi-Server Authentication and Key Exchange Encryption Technique" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435192.

- R. Maruthamuthu, Department of CSE presented a paper titled "A Smart Elevator Design Using Intelligent Video Surveillance System" in Proceedings - International Conference on Technological Advancements in Computational Sciences, ICTACS 2023 in July-Dec 2023, doi: 10.1109/ICTACS59847.2023.10390286.

- Kumar Akuthota, Department of CSE presented a paper titled "Machine Learning Models for Classification of Sensitive Financial Documents" in 5th IEEE International Conference on Cybernetics, Cognition and Machine Learning Applications, ICCCMLA 2023 in July-Dec 2023, doi: 10.1109/ICCCMLA58983.2023.10346685.

- G ArunKumar, Department of CSE presented a paper titled "Customized Creation of ERC 20 Standard Cryptocurrency on the Ethereum Network" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435288.

- S. Elango, Department of CSE presented a paper titled "Analysis of Wireless Internet of Things to Medical Health Care Patient Applications" in 2023 1st International Conference on Advances in Electrical, Electronics and Computational Intelligence, ICAEECI 2023 in July-Dec 2023, doi: 10.1109/ICAEECI58247.2023.10370890.

- S. Elango, Department of CSE presented a paper titled "Determination of Leaf Diseases Using Deep Learning" in IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023 in July-Dec 2023, doi: 10.1109/ICSSS58085.2023.10407084.

- Sameer Yadav, Department of CSE presented a paper titled "Evaluating the Effectiveness of Spam Message Classification and Detection based on Deep Bi-GRU Method" in 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICECA58529.2023.10395622.

Conference Papers

- Bommy M, Department of CSE presented a paper titled "Prediction of Agricultural Surplus Labor Transfer Trend Based on Big Data Fuzzy Clustering Algorithm" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391711.

- K. Hemalatha; S.V.S Ganga Devi, Department of CSE-AI, CSE-CS presented a paper titled "IoT-driven automatic vehicle accident rescue system implemented with Proteus" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435294.

- K Hemalatha, Department of CSE-AI presented a paper titled "Texture Features Based Hybrid Multi Support Vector Machine Model for the diagnosis of Alzheimer's disease through Brain MRI Images" in 2023 International Conference on Computational Intelligence, Networks and Security, ICCINS 2023 in July-Dec 2023, doi: 10.1109/ICCINS58907.2023.10450096.

- E. Sandhya, Department of CSE-AI presented a paper titled "Intrusion Detection using HRO with Ensemble Learning Models and Comparison" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435237.

- K Chokkanathan, Department of CSE-AI presented a paper titled "Smart Containers for Dieticians: Enabling Efficient Nutritional Monitoring through IoT" in 1st International Conference on Emerging Research in Computational Science, ICERCS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICERCS57948.2023.10434208.

- P Kiran; N Saikiran, Department of CSE-AI, CST presented a paper titled "Leveraging Deep Belief Networks and Multi-Class Support Vector Machine for Nutritional Deficiency Identification in Grape Plant Leaves" in 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICECA58529.2023.10395807.

- E. Sandhya; Thammisetty Swetha, Department of CSE-AI, CSE-DS presented a paper titled "Deep Learning Model for Intrusion Detection in SDN Networks" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435198.

- Jaganathan D, Department of CSE-AI presented a paper titled "Comprehensive Analysis Of Various Attacks in the IOT Environment" in 2023 IEEE International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering, RMKMATE 2023 in July-Dec 2023, doi: 10.1109/RMKMATE59243.2023.10369543.

- K Chokkanathan, Department of CSE-AI presented a paper titled "Developing Algorithms for Personalized Recommendations Based on User Behavior" in Proceedings of the 5th International Conference on Inventive Research in Computing Applications, ICIRCA 2023 in July-Dec 2023, doi: 10.1109/ICIRCA57980.2023.10220711.

- K Chokkanathan, Department of CSE-AI presented a paper titled "MLPDR: High Performance ML Algorithms for the Prediction of Diabetes Retinopathy" in 2023 International Conference on Network, Multimedia and Information Technology, NMITCON 2023 in July-Dec 2023, doi: 10.1109/NMITCON58196.2023.10276078.

- Karthikram, Department of CSE-CS presented a paper titled "Investigation of Endorsement Guideline Protocol Actuality Problem using Blowfish AES Algorithm" in 2023 2nd International Conference on Futuristic Technologies, INCOFT 2023 in July-Dec 2023, doi: 10.1109/INCOFT60753.2023.10425489.

- Karthikram, Department of CSE-CS presented a paper titled "A Powerful Load Balancing Algorithm for Cloud Performance Evaluation" in Proceedings of the 5th International Conference on Inventive Research in Computing Applications, ICIRCA 2023 in July-Dec 2023, doi: 10.1109/ICIRCA57980.2023.10220595.

Conference Papers

- E. Sandhya; R. Roopa, Department of CSE-DS presented a paper titled "Intrusion Detection System for IoT Networks" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023-Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435271.

- Manjula Prabakaran, Department of CSE-DS presented a paper titled "Enhancing Disease Prediction in Healthcare: A Comparative Analysis of PSO and Extreme Learning Approach" in 3rd International Conference on Innovative Mechanisms for Industry Applications, ICIMIA 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICIMIA60377.2023.10426121.

- Prudhivi Anuradha, Department of CSE-DS presented a paper titled "Comparison of Time-Series Forecasting Models based on Prophets for Predicting Rainfall" in International Conference on Self Sustainable Artificial Intelligence Systems, ICSSAS 2023 – Proceedings in July-Dec 2023, doi: 10.1109/ICSSAS57918.2023.10331809.

- Arockia Raj A, Department of CSE-DS presented a paper titled "Collaborative Filtering of Malicious Information from the MULTimedia Data Using s" in 2023 International Conference on Computer Science and Emerging Technologies, CSET 2023 in July-Dec 2023, doi: 10.1109/CSET58993.2023.10346953.

- Arockia Raj A, Department of CSE-DS presented a paper titled "3D Based CNN for Improved Segmentation from the Hyperspectral Images" in 2023 International Conference on Computer Science and Emerging Technologies, CSET 2023 in July-Dec 2023, doi: 10.1109/CSET58993.2023.10346933.

- Arockia Raj Abraham, Department of CSE-DS presented a paper titled "Application of Magnetic Resin based on Grey Clustering Algorithm in Advanced Treatment of Industrial Wastewater" in 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023 in July-Dec 2023, doi: 10.1109/SmartTechCon57526.2023.10391645.

- N. Mageshkumar, Department of CST presented a paper titled "Enhancement of CURE algorithm using Map-Reduce Technique with Parallelism" in 2023 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAAI 2023 in July-Dec 2023, doi: 10.1109/ICDSAAI59313.2023.10452533.

- P Lakshmiramana, Department of CST presented a paper titled "Wood Type Identification via Neural Networks and Spectral Analysis: An Advanced Algorithmic Solution" in 2023 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAAI 2023 in July-Dec 2023, doi: 10.1109/ICDSAAI59313.2023.10452657.

- Dinesh Karunanidy; P Sai Rakshith; G Sireesha; Nandhini M; MageshKumar N; M. Sreedevi, Department of CST.CSE-DS presented a paper titled "Cloudburst Prediction in India Using Machine Learning" in Proceedings of the 2023 6th International Conference on Recent Trends in Advance Computing, ICRTAC 2023 in July-Dec 2023, doi: 10.1109/ICRTAC59277.2023.10480754.

- Dinesh Karunanidy; Vyshnavi V; M Sai Soumya Reddy; Aravind Balakrishnan; Abdul Jaleel D; M. Sreedevi, Department of CST presented a paper titled "Self-Organized Genetic Algorithm for Enhanced Data Clustering" in Proceedings of the 2023 6th International Conference on Recent Trends in Advance Computing, ICRTAC 2023 in July-Dec 2023, doi: 10.1109/ICRTAC59277.2023.10480857.

- Basabi Chakraborty, Department of CST presented a paper titled "Influence of Contextual Information on Bengali-English Forward and Backward Transliteration Using Binary Coding" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435050.

Conference Papers

- Suresh, D, Department of CST presented a paper titled "Quality Enhancement for Uninvited Content of Social Media Using Support Vector Machine and Alexnet" in 2023 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAAI 2023 in July-Dec 2023, doi: 10.1109/ICDSAAI59313.2023.10452586.

- Basabi Chakraborty, Department of CST presented a paper titled "BERT-Driven Deep Learning Approach for Depression Detection in Social Media Posts" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICOTL59758.2023.10435285.

- N Saikiran; P Kiran, Department of CST, CSE-AI presented a paper titled "Leveraging the Ensemble Model in Spam detection for Youtube Comments" in International Conference on Self Sustainable Artificial Intelligence Systems, ICSSAS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICSSAS57918.2023.10331815.

- Ashok, D, Department of CST presented a paper titled "Leveraging CNN and LSTM for Identifying Citrus Leaf Disorders" in 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 - Proceedings in July-Dec 2023, doi: 10.1109/ICACRS58579.2023.10404123.

- N Junnu Babu, Department of CST presented a paper titled "Detecting Diseases in Potato Leaves using Deep Learning and Machine Learning Approaches: A Review" in Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023 in July-Dec 2023, doi: 10.1109/ICOSEC58147.2023.10276029.

- Basabi Chakraborty, Department of CST presented a paper titled "Impact Analysis of Supply Chain Competence on Market Capital Growth in Automobile Manufacturers" in Proceedings - 2023 14th IIAI International Congress on Advanced Applied Informatics, IIAI-AAI 2023 in March 2025, doi: 10.1109/IIAI-AAI59060.2023.00090.

- Subba Rao, Department of MATHS presented a paper titled "Security of Connected Cars that Promise Zero Accidents" in ITEC-India 2023 - 5th International Transportation Electrification Conference: eAMRIT - Accelerating e-Mobility Revolution for India's Transportation in March 2025, doi: 10.1109/ITEC-India59098.2023.10471495.

- Nanda Kumar Reddy Nallabala, Department of PHYSICS presented a paper titled "Flexible Photocapacitor Device Using Reduced Graphene Oxide@MOS2Nano Sheets for Future Flexible and Wearable Electronic and IoT Devices" in PowerMEMS 2023 - 2023 IEEE 22nd International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications in March 2025, doi: 10.1109/PowerMEMS59329.2023.10417597.

- Prem Knowles S; Sremmant Basu; Ashpin Pabi D J, Department of MBA, CSE presented a paper titled "An Empirical Study Measuring the Performance Ratings and Evaluating Gender Based Satisfaction Level" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023-Proceedings in March 2025, doi: 10.1109/ICOTL59758.2023.10434986.

- Sreekanth Bonthala; Basabi Chakraborty, Department of MBA, CST presented a paper titled "SDGs Gender Equality Analysis in India by using SHAP Interpretation" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in March 2025, doi: 10.1109/ICOTL59758.2023.10435062.

- D. Pradeep Kumar; B. Sreekanth, Department of Management Studies presented a paper titled "Reduction of dimensions of Customer Satisfaction in Food Delivery Apps using Confirmatory Factor Analysis" in 2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings in March 2025, doi: 10.1109/ICOTL59758.2023.10435045.

- R. Maruthamuthu, Department of Computer Applications presented a paper titled "Advancements in Compiler Design and Optimization Techniques" in E3S Web of Conferences in March 2025, doi: 10.1051/e3sconf/202339904047.

Book Chapters Published

- Shanmukha sundaram V.R, Assistant Professor, Department of Mechanical Engineering published a Book Chapter titled "Determining the accurate free vibration response of thin functionally graded plates using the dynamic stiffness method" in Functionally Graded Structures: Modelling and computation of static and dynamical problems in July-Dec 2023 doi: 10.1088/978-0-7503-5301-4ch10.

- K. Sudhakar, Assistant Professor, Department of CSE published a Book Chapter titled "Sustainable developments of human-machine interaction for knowledge discovery and management: Healthcare and agricultural domains" in Sustainable Science and Intelligent Technologies for Societal Development in July-Dec 2023 doi: 10.4018/979-8-3693-1186-8.ch023.

- J. Nagaraj, Assistant Professor, Department of CSE published a Book Chapter titled "Artificial Intelligence Based Transfer Learning Approach in Identifying and Detecting Covid-19 Virus from CT-Scan Images" in 6G Enabled Fog Computing in IoT: Applications and Opportunities in July-Dec 2023 doi: 10.1007/978-3-031-30101-8_9.

- K. Sudhakar, Assistant Professor, Department of CSE published a Book Chapter titled "Machine learning and deep learning for intelligent systems in small aircraft applications" in Handbook of Research on AI and ML for Intelligent Machines and Systems in July-Dec 2023 doi: 10.4018/978-1-6684-9999-3.ch011.

- G. Muthugurunathan, Assistant Professor, Department of CSE published a Book Chapter titled "Food quality assessment using image processing technique" in Handbook of Research on Thrust Technologies? Effect on Image Processing in July-Dec 2023 doi: 10.4018/978-1-6684-8618-4.ch018.

- K. Sudhakar, Assistant Professor, Department of CSE published a Book Chapter titled "Sustainable energy generation from waste water: IoT integrated technologies" in Adoption and Use of Technology Tools and Services by Economically Disadvantaged Communities: Implications for Growth and Sustainability in July-Dec 2023 doi: 10.4018/978-1-6684-5347-6.ch010.

- R. Nidhya, R. Kalpana, Assistant Professor, Department of CSE published a Book Chapter titled "Energy Harvesting Scheme Using Queuing Theory for Wireless Body Area Network" in EAI/Springer Innovations in Communication and Computing in July-Dec 2023 doi: 10.1007/978-3-031-35965-1_9.

- Koppisetti Giridhar, Assistant Professor, Department of CST published a Book Chapter titled "Scope of Research Areas Enlightened in Augmented and Virtual Reality" in Cognitive Science and Technology in July-Dec 2023 doi: 10.1007/978-981-99-2746-3_32.

Patents Published

- Dr. Sandip D Satav, Mr. Gowtham A, Dr. Althaf Ali A, Ms. K. Amuthachenthiru, Mrs. Veeramachaneni Nirosha, Dr. R Vijaya Kumar Reddy, Dr. J K Periasamy , Faculty of MITS published a patent on "Workflow Scheduling in Fog-Cloud Computing using a Quantum Genetic Algorithm " in August 2023. Patent No: 202321043817.

- Dr. S. Kumarganesh, Dr. P. A. Gowri Sankar, Dr. K. Jayaram, Dr. S. Elango, Dr. P. Vijayalakshmi, Dr. K. Muthumanickam, Dr. K. Gowsic, Dr. M. Suganthi, Dr. A. Immanuvel, Dr. P. N. Palanisamy, Faculty of MITS published a patent on "IOT based Street cleaning Vehicle" in August 2023. Patent No: 387875-001.

- Dr. Kishore Kumar Ponnuswamy Krishnan, Dr. Thirumal Pattabi, Dr. Vutukuru Shravan Koundinya, Srinivas Kumar Seepuram, Dr. Parthasarathi Patra Harekrushna, Dr. Kasi Viswanathan Palanisamy, Dr. Kiran Kumar Kommineni, Faculty of MITS published a patent on "Smart Inter-Transfer Data Drive" in September 2023. Patent No: 202341053751.

- Anju Das, Dr Ramesh P, P. Velrajkumar, Dr Solai Manohar, Dr. T. S. Balaji Damodhar, Mr. M. Venkatesh, Dr. N. RATHIKA, Faculty of MITS published a patent on "Smart Charger for EV Battery" in September 2023. Patent No: 202341043712.

- Dr. D. Kumar, Dr. S. Richard, Dr. C. Santhakumar, Dr. S. Ramesh, Dr. N. Nagabhooshanam, Dr. L. Anantha Raman, Faculty of MITS published a patent on "Solar Powered Glass Cleaning Robot" in September 2023. Patent No: 392222-001.

- Dr. Sivakumar Karthikeyan, Dr. Pooja Singh, Dr. D. S. Robinson Smart, Dr. G. Anand, Dr. N. Nagabhooshanam, Dr. L. Anantha Raman, Faculty of MITS published a patent on "An Intelligence Sensor Based Biodegradable Waste Collection Unit" in September 2023. Patent No:389840-001.

- Gowtham A, D. Karunkuzhali Sathish. R, Dr. E. Sivanantham, Faculty of MITS published a patent on "Wireless Router Network" in September 2023. Patent No: 391254-001.

- Dr. Santosh Kumar Singh, Dr. R. Viswanathan, Dr. N. Naveen Kumar, Mrs. M. Sowmiya, Dr. K. Karuppasamy, Mrs. P. Naga Durga, Ms. Anuba S, Dr. D. Rajalakshmi, Dr. Jyoti Prasad Patra, Mrs. S. S. Jaya, Mr. M. Mohana Sundharam, Mr. J. Logeshwaran, Dr. V. Kannan, Faculty of MITS published a patent on "An Effective Lung Transplantation using Machine Learning Based Techniques" in September 2023. Patent No: 202321047002.

- Dr. Shaik Mohammed Ibrahim, Dr. Prathi Vijaya Kumar, Dr. Sobhanapuram Sreedhar, Dr. Pandikunta Sreenivasulu, Dr. Annasagaram Subba Rao, Dr. Tamalapakula Poornima, Faculty of MITS published a patent on "Influence of Thermophoresis and Brownian Motion of Nanoparticles on Radiative Chemically-Reacting MHD Hiemenz Flow Over a Nonlinear Stretching Sheet with Heat Generation" in September 2023. Patent No: 202341047864.

- Prof (Dr) Janardan Singh Chauhan, Dr. Priyam Nath Bhowmik, Dr. Reena Singh, Prof. Dr. B.K.Sarkar, Mr. Pawan Kumar Singh, Faculty of MITS published a patent on "Develop Railway Sleeper Using Recycled Plastic." in October 2023. Patent No: 202321057245.

- Mr. Vengateshwaran Masilamani, Dr. Jayanthi Sampath, Dr. Srividhya Elangovan, Mr. Amandeep Singh, Ms. Uma Devi Gunasegaran, Ms. Hema Ramachandran, Mr. Arockia Raj Abraham, Faculty of MITS published a patent on "Solar based automated railway track inspection trolly" in October 2023. Patent No: 6319705.

- Dr. Yuvaraj Kunnathur Periyasamy, Dr. Swapnil Sonajirao Lahane, Dr. Manoj Dattopant Joshi, Rajkumar Govindarajan, Sivaprakash Kandasamy, Dr. Ramesh Babu Subramaniam, Shobana Alagarsamy, Faculty of MITS published a patent on "Intelligent Tea Leaves Disease Detecting Device" in November 2023. Patent No: 6327994.

- Dr. Yuvaraj Kunnathur Periyasamy, Dr. Swapnil Sonajirao Lahane, Shobana Alagarsamy, Komal Kumar Napa, Sampathkumar Karthikeyan, Dr. Anandkumar Ramasamy, Gayathri Ulaganathan, Faculty of MITS published a patent on "Smart Emotion Sensing Device" in November 2023. Patent No: 6327952.

Patents Published

- Dr. Kusuma Sreenivasa, Faculty of MITS published a patent on "Smart Automobile Health Diagnostic Device" in November 2023. Patent No: 6327951.

- Dr Chenthil Thapasimuthu Rajeswari, Dr Chandan Singh Rawat, Rajdeep Shrivastava, Dr Vivek Jain, Dr Rajesh Kumar Nema, Dr Rajeev Yadav, Pooja Kumari, Faculty of MITS published a patent on "Wireless Laptop Charger Cum Cooling Pad" in November 2023. Patent No: 6327546.

- Dr. Priyam Nath Bhowmik, Dr. Biplab Kumar Sarkar, Dr. Reena Singh, Vandana Singh, Faculty of MITS published a patent on "Digital Concrete Mixing Device" in December 2023. Patent No: 398428-001.

- Dr. Lakshmi C, Badesab, Dr. G. S. Bansode, Akankhya Panda, Dr. R . Murugesan, Dr. Prashant Mundeja, Prabakaran V, S. Srinivas Kumar, D. Maithra, Aryan Khanna, Mrs. Pallavi Nikumbh (Dhade), N.Srija, Faculty of MITS published a patent on "Artificial Intelligence and Cognitive Language, Vision, and Emotion-Based Approaches to Dealing with Stress during Workplace Stress Management" in December 2023. Patent No: 202341078055.

- Dr. T. Sri Devi, Dr. V. Samuel Morris, Mr. R. Kathiravan, Dr. Preeti Chitkara, Dr. Saloman Raju Yarlagadda, Dr.V.Deepha, Dr. Arpita Mazumdar, Dr. Lila Simon, Dr. K. Shaheen, Dr. Bikash Bepari, Dr. Chanchal Kumar De, Mr. J Logeshwaran, Faculty of MITS published a patent on "MULTI- MODEL LANGUAGE ACQUISITION APPARATUS FOR NON-NATIVE ENGLISH USERS" in December 2023. Patent No: 202341081108.

- Mr.M.Selvam, Dr.O.M.Saravanakumar, Mr.A.P.Rajesh, Dr. Supriya Gupta Bani, Ms.Ramya Palaniappan, Prof.B.Rajakumar, Dr. Dahlia Sam, Mr.Vinoth Kumar M, Dr. Nitin R. Chopde Karimulla Syed , Faculty of MITS published a patent on "Artificial Intelligence-Enhanced Prosthetic Limb For Intuitive Operation and Sensory Feedback " in December 2023. Patent No: 202341077087.

- Dr. Priyam Nath Bhowmik, Prof. Dr. Reena Singh, Mr. Pawan Kumar Singh, Prof. Dr. B.K.Sarkar, Miss Pari Nidhi Singh, Faculty of MITS published a patent on "Evaluation Of High Volume Flyash Concrete for Rigid Pavement Overlays." in December 2023. Patent No: 202341076651.

- Saravanan Deivasigamani, K. Prabu, Anandh Nagarajan, Basi Reddy Ganesh Reddy, Yenduri Mohan Krishna, Faculty of MITS published a patent on "Automated Speed Limit Adaptation and Regulation System for Vehicles in Traffic and Its Method Thereof" in December 2023. Patent No: 202341074579.

- Ms.G. Leena Rosalind Mary, Faculty of MITS published a patent on "Topological Indices and QSPR Analysis of Nsaid Drugs" in November 2023. Patent No: 202341069363.

- Dr. K Vimala, Dr. M. Manjuladevi, Mr. Dwarka, Mrs. Ragavi Priya S, Dr. Tapas Kumar, Dr. Srinivasan J, Ramendra Yadav, Mrs. Menda Sreevani, Dr. N Venkatesh, Dr. K Prakash, Dr. Sarbeswara Hota, Dr. Debabrata Singh, Faculty of MITS published a patent on "IOT Based Humanity Prediction Using Time Series Based Arima Model" in November 2023. Patent No: 202341069305.

- Dr VIJAYVASANTH A, Dr. M. Jeyaselvi, Dr G Suseela, Dr N Praveena, Dr Sree Divya SonaIi Laxmanrao Mortale, Manaswml Anlruddha Pankar , Madhavi Manojkumar, Faculty of MITS published a patent on "Evaluation Of Packet Traffic Abnormally Beacon Analysis for ICMP Ping Flood Identification of ATTAC" in November 2023. Patent No: 202341072767.

NSS Activities/Community Service Programs

- An awareness program on **"World Organ Donation Day"** was organized by Department of Civil Engineering in collaboration with the NSS Cell, MITS, on 13.08.2023.
- The NSS Cell at MITS organized **"Teacher's Day"** on 05.09.2023.

- The NSS Cell celebrated **"NSS Day"** on 25.09.2024.

- A Heart Check-up (2D Echocardiography Test) Camp was organized by the NSS Unit of MITS in collaboration with the Lions Club Horsley Hills on 27.09.2023. The event was hosted by RL Jalappa Hospital and Research Centre, Kolar, in association with Narayana Heart Centre, Bangalore.

- A one-day event on **"Gandhi Jayanti"** was organized by the NSS Cell-MITS and NCC Cell-MITS on 02.10.2023.
- **National Unity Day** was celebrated by the NSS Unit at MITS, to commemorating the birth anniversary of Sardar Vallabhbhai Patel on 31.10.2023.

- An awareness program on **"Voter Enrolment"** was organized by MITS on 23.11.2023, with 200 students participating in the event.
- An awareness program on **"Drug Abuse and Mandal Level NCORD Meeting"** was conducted by the NSS Cell-MITS in association with the Revenue Department, Kurabalakota, AP Police, and Mudivedu on 13.12.2023.
- An awareness program on **"Viksit Bharat@2047"** was organized by the NSS Cell-MITS on 19.12.2023, aiming to encourage students to register on mygov.in and participate in Viksit Bharat@2047 initiative.