

# Madanapalle Institute of Technology & Science

(UGC Autonomus Institution)

Angallu (V), Madanapalle-517325

Annamayya District, Andhra Pradesh, India



## NEWSLETTER

*Issue - 2*

*January - June, 2024*





## 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.

### Website:

[www.mits.ac.in](http://www.mits.ac.in)

### Phone:

+91-8571-280255; 280706

### Email:

[info@mits.com](mailto:info@mits.com)

### Reach Us:

**Madanapalle Institute of Technology & Science**

Post Box No: 14, Kadiri Road,  
Angallu (V), Madanapalle – 517326  
Annamayya District, Andhra Pradesh, India

### Editorial Team:

#### **Editor-in-chief**

Dr. C. Kamal Basha,  
Vice principal (Administration)

#### **Student coordinators:**

Mr. Nihanth Nelavanka– III Year (EEE)  
Ms. T. Shravya– III Year (EEE)  
Mr. T. Chaithanya Lakshmi – III Year (EEE)

## Content

Message from Principal	1
Message from Vice Principal (Administration)	1
About MITS	2
Guest Lectures	3-5
Webinars	6
Workshops	7-8
Symposiums	9
Faculty Development Programs	11-12
Industrial Visit & Training Programs	13-14
Programs/Events	15-16
Paper Publications	17-30
Conferences Papers	31-36
Book Chapters Published	37-38
Patents Published	39
Research Projects Sanctioned	40
NSS Activities/Community Service Programs	41-42





## Message from Principal

I am delighted to extend warm greetings to all through the bi-annual newsletter of Madanapalle Institute of Technology & Science (MITS). This newsletter acts as a vital link, connecting our institution with its stakeholders. As the Principal of MITS, I value the role of effective communication in building a strong sense of community and unity. Through this publication, we aim to showcase the achievements, initiatives, and progress within our college community.



This newsletter provides a platform to celebrate our students' successes, recognize our faculty's dedication, and highlight our progress towards academic excellence and holistic development. I encourage everyone to engage actively with its content, as it represents the collective efforts and aspirations of our MITS family. Let us continue working together, inspiring each other, and driving our institution towards greater success and innovation.

**Dr. C. Yuvaraj**

Principal, Madanapalle Institute of Technology & Science.

## Message from Vice Principal (Administration)

In this issue of our bi-annual newsletter, we are excited to present the vibrancy and energy of our college community. This newsletter encapsulates our collective journey towards excellence, showcasing both academic accomplishments and extracurricular successes. It is inspiring to witness the resilience and determination of our students, faculty, and staff as we navigate these times together.



We are committed to upholding the values of innovation, collaboration, and integrity that define MITS. I encourage you to delve into the achievements highlighted in this newsletter and join us in celebrating the MITS spirit.

**Dr. C. Kamal Basha,**

Vice Principal (Administration) & Editor-in-chief, NEWSLETTER.



## About MITS

Madanapalle Institute of Technology & Science was established in 1998 in the picturesque and pleasant environs of Madanapalle. It 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 **“Emerging Technologies in Supply Chain Management”** was organized by Department of Management Studies on **04.01.2024**.
- A One-Day Alumni Guest Lecture on **“Opportunities for Mechanical Engineers in Software Industries”** was organized by Department of Mechanical Engineering on **25.01.2024**.
- A One-Day Guest Lecture on **“Quantum Computing: A Journey into the future of Computing”** was organized by Department of Computer Science & Technology on **30.01.2024**.
- A One-Day Guest Lecture on **“Solving Real-World problems with Multi-Agent Systems: A Soft Computing Framework”** was organized by Department of Computer Science & Technology on **31.01.2024**.



- A One-Day Guest Lecture on **“Security Challenges in Wireless Communication: Threats and Countermeasures”** was organized by Department of Computer Science & Technology on **01.02.2024**.
- A One-Day Guest Lecture on **“Development of Computer Vision System for an AI Assistant”** was organized by Department of Computer Science & Technology on **02.02.2024**.
- A One-Day Guest Lecture on **“Securing the Future: Exploring the foundations of Cryptography in Blockchain Technology”** was organized by Department of Computer Science & Engineering- Cyber Security on **30.01.2024**.



- A One-Day Guest Lecture on **“IOT and Healthcare: Innovations in Remote Patient Monitoring”** was organized by Department of Computer Science & Technology on **31.01.2024**.
- A One-Day Alumni Guest Lecture on **“SRE and Data Science Opportunities in USA”** was organized by Department of Electrical & Electronics Engineering on **02.02.2024**.

## Guest Lectures

- A One-Day Guest Lecture on **“Awareness Program on Understanding Quality Control and Quality Management in Construction Activities”** was organized by Department of Civil Engineering in association with Builders Club on **02.02.2024**.
- A One-Day Guest Lecture on **“Protocols for the future: Post Quantum Public Key Infrastructure Essentials”** organized by Department of Computer Science & Technology on **03.02.2024**.
- A One-Day Alumni Guest Lecture on **“The Path of Higher Education Abroad”** was organized by Department of Civil Engineering in association with Builders Club on **03.02.2024**.
- A One-Day Guest Lecture on **“Roadmap for JavaScript Development”** was organized by Department of CSE- Data Science on **28.02.2024**.
- A One-Day Guest Lecture on **“Intellectual Property Rights: Concept, Importance, and Its Role in Economic Growth”** was organized by Department of Electrical & Electronics Engineering on **29.02.2024**.
- A One-Day Alumni Guest Lecture on **“Career Opportunities for Young Graduates in the Energy Sector”** was organized by Department of Electrical & Electronics Engineering on **29.02.2024**.
- A One-Day Alumni Guest Lecture on **“Importance of Power Platform and Automation Anywhere”** was organized by Department of Mechanical Engineering on **04.03.2024**.
- A One-Day Guest Lecture on **“What is Plasma?”** was organized by Department of Physics on **04.03.2024**.
- A One-Day Guest Lecture on **“Software Testing Tools & Techniques”** was organized by Department of Computer Applications on **14.03.2024**.
- A One-Day Alumni Guest Lecture on **“Merits of Java Tools in Design Engineering”** was organized by Department of Mechanical Engineering on **18.03.2024**.



- A One-Day Alumni Guest Lecture on **“Career Guidance for IT Industry”** was organized by Department of Computer Applications on **03.02.2024**.



- A One-Day Guest Lecture on **“Beyond Boundaries: Design Thinking as The Catalyst for Innovation”** was organized by Department of Electrical & Electronics Engineering on **17.02.2024**.
- A One-Day Guest Lecture on **“The Evolution of Cyber Threats: Navigating Emerging Trends”** was organized by Department of Computer Science & Technology on **26.02.2024**.



- A One-Day Guest Lecture on **“Spark for Data Analysts: Transforming Big Data into Actionable Insights”** was organized by Department of Computer Science & Technology on **19.03.2024**.

## Guest Lectures

- A One-Day Alumni Guest Lecture on **“Transition to IT Industry and Opportunities in Ireland”** was organized by Department of Electrical & Electronics Engineering on **21.03.2024**.
- A One-Day Alumni Guest Lecture on **“Career Development Interaction”** was organized by Department of Mechanical Engineering on **26.03.2024**.
- A One-Day Guest Lecture on **“An Interactive Session on Opportunities in Japan”** was organized by Department of Computer Science & Engineering-Artificial Intelligence on **02.04.2024**.
- A One-Day Guest Lecture on **“Sand to System on Chip: VLSI Design, Fabrication & Testing Flow”** was organized by Department of Electronics & Communication Engineering on **08.04.2024**.
- A One-Day Guest Lecture on **“Thermal Analysis in Building”** was organized by Department of Civil Engineering on **19.04.2024**.
- A One-Day Guest Lecture on **“Cybersecurity Trends and Career Paths - A Journey into Digital Defense”** was organized by Department of Computer Science & Engineering on **20.04.2024**.
- A One-Day Guest Lecture on **“Physics for Engineering and Technology: Content and Tools for study”** was organized by Department of Physics on **20.04.2024**.
- A One-Day Guest Lecture on **“Applications of IOT in Civil Engineering”** was organized by Department of Civil Engineering on **23.04.2024**.
- A One-Day Online Guest Lecture on **“Machine Learning Techniques”** was organized by Department of Computer Science & Engineering on **01.05.2024**.
- A One-Day Online Guest Lecture on **“Basic Concepts of Cryptography & Block chain Technologies”** was organized by Department of Computer Science & Engineering on **01.05.2024**.
- A One-Day Guest Lecture on **“The Roadmap to Success in IT Career Pathways”** was organized by Department of Computer Science & Engineering-Data Science on **04.05.2024**.
- A One-Day Online Guest Lecture on **“Introduction and Real-World Applications of Machine Learning”** was organized by Department of Computer Science & Engineering on **06.05.2024**.
- A One-Day Guest Lecture on **“Protecting Innovation through IPR”** was organized by Department of Electrical & Electronics Engineering on **09.05.2024**.
- A One-Day Guest Lecture on **“Perovskite Power: Unleashing the Future of Energy Applications”** was organized by Department of Chemistry on **14.06.2024**.
- A One-Day Online Guest Lecture on **“Reliability of Electronic Components”** was organized by Department of Electronics & Communication Engineering on **25.06.2024**.
- A One-Day Guest Lecture on **“Cryptocurrency-Significance, Impact on Emerging Economies, Recent Developments and Future Challenges”** was organized by Department of Management Studies on **28.06.2024**.



## Webinars

- A Webinar on “**Challenges and Career Opportunities for Mechanical Engineering Students**” was organized by Department of Mechanical Engineering on **30.01.2024**.



- A Webinar on “**Capital Goods Scheme – Phase 2 & Industry 4.0**” was organized by Department of Mechanical Engineering on **07.02.2024**.
- A Webinar on “**Solar Thermal Assisted Applications**” was organized by Department of Mechanical Engineering on **13.02.2024**.
- A Webinar on “**Power BI End to end Project for Beginners**” was organized by Department of Department of CSE-Artificial Intelligence on **01.03.2024**.

- A Webinar on “**Investment Awareness and opportunities**” was organized by Department of Management Studies on **28.03.2024**.
- A Webinar on “**Emerging Trends in Automobile Engineering**” was organized by Department of Management Studies on **30.04.2024**.
- A Webinar on “**Smart Surveillance: Advancements in Video Analytics with Machine Learning**” was organized by Department of Computer Science & Engineering on **04.05.2024**.
- A Webinar on “**Innovation & Technology**” was organized by Department of Computer Science & Engineering-Cyber Security on **10.05.2024**.





## Workshops

- A Three-Day Workshop titled "**PC-Hardware and Networking**" was organized by Department of Computer Applications from **02.01.2024** to **04.01.2024**.
- A One-Day Workshop titled "**Career Opportunities for MBA Students**" was organized by Department of Management Studies on **04.01.2024**.
- A One-Day Workshop on "**Mastering SCCM 2024: Advanced Deployment Strategies and Best Practices**" was organized by Department of Computer Science & Technology on **05.02.2024**.



- A One-Day Workshop titled "**Social Information Network - Data Analysis and Visualization**" was organized by Department of Computer Science & Engineering in association with Institute of Electrical and Electronics Engineers (IEEE) on **06.01.2024**.
- A One-Day Workshop on "**Next-Gen Networking Technologies: Exploring 5G, SDN and NFV**" was organized by Department of Computer Science & Technology on **07.02.2024**.
- A Five-Day National Workshop titled "**PCB Design for II Year, Embedded Systems for III Year**" was organized by Department of Electronics & Communication Engineering from **19.02.2024** to **24.02.2024**.



- A Five-Day International Workshop titled "**International Work Shop on LATEX Essentials and Practices**" was organized by Department of Electronics & Communication Engineering from **26.02.2024** to **01.03.2024**.

- A One-Day Workshop on "**Redefining Tomorrow: A Workshop on AI Advancements**" was organized by Department of Computer Science & Technology on **30.01.2024**.
- A One-Day Workshop on "**Quantum-safe Cryptography Workshop: Navigating the Transition**" was organized by Department of Computer Science & Technology on **02.02.2024**.



## Workshops

- A One-Day Workshop on “**Awareness on IPR**” was organized by Department of Computer Applications on **27.02.2024**.
- A One-Day Workshop on “**Designing your Digital Presence**” was organized by Department of CSE-Artificial Intelligence on **22.03.2024**.
- A One-Day Workshop on “**Trading Mechanism of Stock Market**” was organized by Department of Management Studies on **26.03.2024**.
- A Two-Day Workshop on “**Number Analytics and Data Science**” was organized by Department of Computer Science & Technology in collaboration with the Indian Academy of Sciences at MITS from **02.04.2024** to **04.04.2024**.
- A One-Day Workshop on “**Fundamentals of Metasurface Design and its Applications in Energy Harvesting and Sensing**” was organized by Department of Electronics & Communication Engineering on **15.04.2024**.
- A Two-Day National Level Workshop on “**Digital ASIC Design Using Open-Source Tools**” was organized by Department of Electronics & Communication Engineering from **18.04.2024** to **19.04.2024**.



- A One-Day Workshop on “**Azure Cloud Essentials**” was organized by Department of CSE- Data Science on **20.04.2024**.



- A Three-Day International Level Workshop on “**Advances in Electron Device Technology for IoT and Communication**” was organized by Department of Electronics & Communication Engineering from **22.04.2024** to **24.04.2024**.



*Education is the most powerful weapon which you can use to change the world*

*- Nelson Mandela*

## Symposiums

- A One-Day National Level Technical Symposium titled “**TERA 2K24 -(TERA - Techno Fest on Electrical Revolutions and Advancements)**” was organized by Department of Electrical and Electronics Engineering in Association with IIC and IEEE Chapter, MITS on **02.04.2024**.



- A One-Day National Level Technical Symposium titled “**GMOCS 2K24**” was organized by Department of Computer Science & Engineering on **03.04.2024**.



- A One-Day National Level Technical Symposium titled “**D’Festa-24**” was organized by Department of CSE- Data Science on **04.04.2024**.



- A One-Day National Level Technical Symposium titled “**INVICTA 2K24**” was organized by Department of Computer Science & Technology on **06.04.2024**.



- A One-Day National Level Technical Symposium titled “**AURA**” was organized by Department of Computer Science & Engineering –Artificial Intelligence on **27.03.2024**.
- A One-Day National Level Technical Symposium titled “**EPICS 2K24 - National Level TTechnical Symposium**” was organized by Department of Computer Science & Engineering – Cyber Security on **28.03.2024**.
- A One-Day National Level Technical Symposium titled “**Mechonance-2K24**” was organized by Department of Mechanical Engineering on **01.05.2024**.



- A One-Day National Level Technical Symposium titled “**CITA-2K24**” was organized by Department of Civil Engineering on **03.05.2024**.

## Seminars

- A One-Day Seminar on “**Cyber Crime Investigation**” was organized by Department of Computer Science & Engineering- Cyber Security on **20.01.2024**.
- A Three-Day SERB Sponsored Seminar on “**Recent Trends and Challenges in VLSI Circuits, Devices and Architectures**” was organized by Department of Electronics and Communication Engineering from **23.01.2024** to **25.01.2024**.
- A One-Day Seminar on “**Success Mindset**” was organized by Department of Computer Science & Engineering- Data Science on **25.01.2024**.
- A One-Day Seminar on “**Automotive Software Development and its Tools and Protocols**” was organized by Department of Electronics & Communication Engineering on **03.02.2024**.
- A One-Day Seminar on “**Career Readiness**” was organized by Department of Computer Science & Engineering- Data Science on **19.03.2024**.



## Conferences

- A Two-Day International Conference on “**Computing and Intelligent Systems**” was organized by Department of CSE-Artificial Intelligence from **03.05.2024** to **04.05.2024**.



- A Two-Day International Conference-cum-Workshop on Language and Literature (ICWLL 2024) titled “**Trends in Language Teaching, Literature, Cultural Studies, and Linguistics**” was organized by Department of English & Foreign Languages from **12.06.2024** to **13.06.2024**.

## Faculty Development Programs

- A Five-Day FDP on **“Exploring the Quantum Frontier: An In-Depth Investigation of Quantum Computing and its Revolutionary Applications”** was organized by Department of Computer Science & Technology from **29.01.2024** to **02.02.2024**.

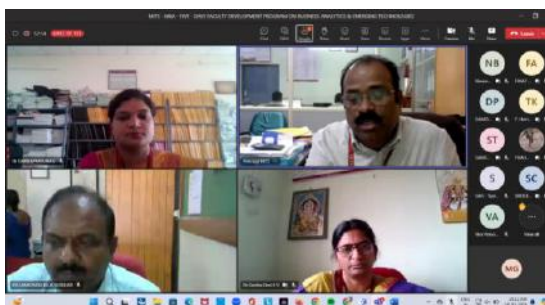


- A Five-Day Online FDP on **“Futuristic Trends of Language Learning: Impact of Artificial Intelligence on 21<sup>st</sup> Century learners”** was organized by Department of English & Foreign Languages from **05.02.2024** to **10.02.2024**.
- A Five-Day International Online FDP on **“Emerging Tools & Techniques in Machine Learning and Data Science”** was organized by Department of Computer Science & Engineering from **05.02.2024** to **10.02.2024**.
- A Five-Day National Online FDP on **“Unlocking Industry Insights in Data Science”** was organized by Department of CSE- Data Science from **12.02.2024** to **16.02.2024**.
- A Five-Day Online Professional Development Programme (PDP) on **“NBA Accreditation”**, was organized by Internal Quality Assurance Cell (IQAC), in association with NITTTR, Chennai from **12.02.2024** to **16.02.2024**.
- A One-Week Short Term Course on **“Big Data Analytics for Smart Grid”** was organized by Department of Electrical & Electronics Engineering from **12.02.2024** to **16.02.2024**.
- A Five-Day International Online FDP on **“Unveiling Emerging Trends in Artificial Intelligence and Data Renaissance”** was organized by Department of Computer Science & Engineering- Artificial Intelligence in association with MITS - IEEE Student Branch, Indian Society for Technical Education (ISTE) and MITS IIC from **19.02.2024** to **23.02.2024**.
- A Five-Day International Online FDP on **“Global Conversations in Mechanical Engineering: Bridging Innovation and Sustainability”** was organized by Department of Mechanical Engineering from **19.02.2024** to **23.02.2024**.



## Faculty Development Programs

- A Six-Day Online FDP on “**Impact of Emerging Technologies in AI/ML and Data Science**” was organized by Department of Computer Science & Engineering from **26.02.2024** to **02.03.2024**.
- A Five-Day FDP on “**Strategic Hoops: NBA Accreditation and OBE Mastery**” was organized by Department of Computer Science & Technology from **26.02.2024** to **01.03.2024**.
- A Five-Day Online FDP on “**Business Analytics**” was organized by Department of Management Studies from **18.03.2024** to **22.03.2024**.



- A Five-Day Online Faculty Development Program on “**Exploring Data Science with Hands on Training using Python**” was organized by Department of Computer Applications from **22.04.2024** to **26.04.2024**.

- A Five-Day Online Faculty Development Program on “**Developing Potentials-Emerging Technologies in Computer Science and IT**” was organized by Department of Computer Applications from **06.05.2024** to **10.05.2024**.



- A Five-Day Online Professional Development Programme (PDP) on “**Block Chain Technologies**”, was organized by Internal Quality Assurance Cell (IQAC), in association with NITTR, Chennai from **03.06.2024** to **07.06.2024**.



**MITS has hosted “Ashv - the race of talent”, a Two-day National Level festival encompassing Technology, Culture, and Sports, held from April 25th to April 26th, 2024.**



## Industrial Visits

- A One-Day Industrial Visit to “**Saviynt, Bengaluru**” was organized by Department of Computer Science Engineering - Data Science on **05.02.2024**.



- A One-Day Industrial Visit to “**Doordarshan Centre, Tirupati**” was organized by Department of Electronics & Communication Engineering on **20.02.2024**.



- A One-Day Industrial Visit to “**HMT Machine Tools Ltd., Bengaluru**” was organized by Department of Mechanical Engineering on **09.02.2024**.



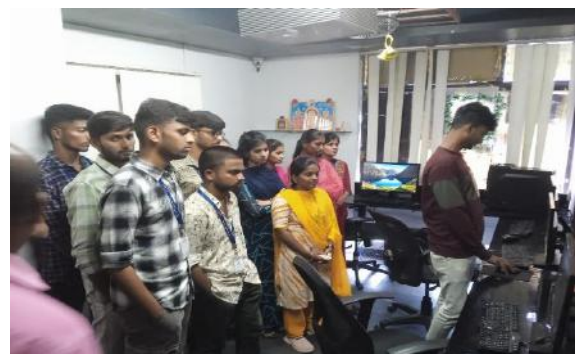
- A One-Day Industrial Visit to “**Computational Intelligence Research Foundation**” was organized by Department of Computer Science & Engineering- Cyber Security on **21.02.2024**.



- A One-Day Industrial Visit to “**Doordarshan Centre, Tirupati**” was organized by Department of Electronics & Communication Engineering on **16.02.2024**.
- A One-Day Industrial Visit to “**Sathish Dhawan Space Center (SDSC)SHAR, Sriharikota, Andhra Pradesh**” was organized by Department of Computer Science & Engineering on **17.02.2024**.



- A One-Day Industrial Visit to “**Arena Multimedia, Chennai**” was organized by Department of Computer Science & Engineering –Artificial Intelligence on **02.03.2024**.



## Industrial Visits/Training Programs

- A One-Day Industrial Visit to “**Lepakshi**” was organized by Department of Civil Engineering on **03.03.2024**.
- A One-Day Industrial Visit to “**Kirloskar Ferrous Industries Limited-Koppal Plant**” was organized by Department of Mechanical Engineering on **21.03.2024**.
- A Two-Day Industrial Visit to “**Kaynes Technology, Mysore, Karnataka**” was organized by Department of Electrical & Electronics Engineering from **18.06.2024** to **19.06.2024**.



- A One-Day Industrial Visit to “**Royalaseema Thermal Power Project (RTPP)**” was organized by Department of Mechanical Engineering on **21.03.2024**.



### Faculty Achievements:

*Dr. S. Kusuma, (HoD of CSE-Data Science), received the prestigious “Jyestha Acharya Award” at the Bharat Education Excellence Awards 2024, held at Andhra University, Vizag, in recognition of her contribution to teaching and research.*

### TRAINING PROGRAMS (Students):

- A Two-Day Hands-on Training Program on “**Cloud Computing with Amazon Web Services (AWS)**” was organized by Department of Computer Science & Engineering from **19.02.2024** to **21.02.2024**.
- A Six-Day Skill Development Program on “**Mechanical AUTOCAD**” was organized by Department of Mechanical Engineering in association with APSSDC from **19.02.2024** to **24.02.2024**.
- A Six-Day Skill Development Program on “**Mechanical CATIA**” was organized by Department of Mechanical Engineering in association with APSSDC from **19.02.2024** to **24.02.2024**.





## Events

- MITS NCC organized a one-day trekking event at “Horsley Hills” on 07.01.2024.



- The Department of CSE-Data Science, in collaboration with the Institution Innovation Council, hosted a one-day motivational program titled “National Youth Day Celebration” on 12.01.2024.
- The Department of Management Studies organized an event on “National Girl Child Day” on 24.01.2024.



- The Department of Management Studies organized an exhibition on “Sustainable Production and Consumption Patterns in the Indian Economy” on 31.01.2024.
- An Awareness Program on “Company Registration, and Documentation to Start a New Business” was conducted by the Department of Electrical & Electronics Engineering in association with the Entrepreneurship Development Cell on 01.02.2024.
- The Department of Computer Applications visited the “Velugu Free Home for Orphans and Senior Citizens” on 04.02.2024.
- Department of Computer Applications in association with IEEE MITS inaugurated the “Computational Intelligence Society” on 09.02.2024.
- The Department of Computer Applications organized a “Parent-Teacher Meeting” for first-year students on 12.02.2024.
- Department of Electronics & Communication Engineering conducted an event on “Alumni Interaction” on 13.02.2024.

- A one-week bootcamp on “Innovation & Incubation” was organized by the IIC Cell and NISP Cell from 15.02.2024 to 22.02.2024.
- NCC organized an interaction session with the “Additional Director General of the AP & T Directorate” on 23.02.2024.
- The Department of Physics organized an event on “Research in Physical Sciences: New Trends and Research Findings, along with National Science Day celebrations” on 28.02.2024.
- The Civil Engineering Department conducted an awareness program on “World Engineering Day” on 04.03.2024.
- The Department of Management Studies organized “International Women's Day” on 07.03.2024.
- The Civil Engineering Department organized an awareness program on “International Day of Action for Rivers” on 14.03.2024.
- The Department of Mechanical Engineering organized a hackathon event titled “Inno-Tech Spark 2024” on 16.03.2024.



- The Civil Engineering Department hosted an awareness program on “World Water Day” on 22.03.2024.
- The Department of Mechanical Engineering conducted a “Parent-Teacher Meeting” on 28.03.2024.
- The Department of Computer Applications organized an event titled “Alumni Meet” on 30.03.2024.

## Events

- Dr. Prathyusha Subbarao, a renowned psychologist, conducted a session on **“Reprogramming the Mind for I B. Tech Students”** was organized by the Department of Chemistry on **06.04.2024**.
- The Department of Physical Education, in association with the Department of Artificial Intelligence, conducted an event on **“International Sports Day – Medal Ceremony”** on **06.04.2024**.



- The Department of Chemistry organized a **“Teacher-Student Counseling”** session led by renowned psychologist Dr. Prathyusha Subbarao for I B. Tech students on **06.04.2024**.
- NCC organized **“A Parents' Meeting and a Career Guidance Session on Opportunities in the Indian Armed Forces”** on **20.04.2024**.
- IIC, MITS organized an event on **“MITS Prototype Challenge 2.0 & Inauguration of Startup Cell”** in association with NISP Cell on **07.05.2024**.
- The Department of Computer Science & Technology, in association with the Institute Innovation Cell and Entrepreneurship Development Cell, organized the **“Internal Project Expo – 2024”** on **24.04.2024**.



- The Department of Central Library organized a one-day user awareness program on **“IEEE and EBSCO, E-Journals Access”** on **08.05.2024**.
- The Department of Management Studies hosted the **“Internal Management Meet 'SAMARTHYA – The Empowerment Summit”** on **16.05.2024**.
- The Department of English & Foreign Languages conducted **“English Language Day Celebrations”** for I B. Tech students on **17.05.2024**.



- The Department of Civil Engineering organized **“Farewell Celebrations”** for the final-year students on **18.05.2024**.
- The Department of Management Studies organized **“International Human Resource Day”** on **22.05.2024**.
- The Department of Civil Engineering organized an awareness program titled **“World Environment Day”** on **05.06.2024**.
- The Department of Civil Engineering, in collaboration with the Research & Development Cell, organized a one-day research talk titled **“Development of Filler Reinforced Sustainable Polymeric Composite for the Implementation of Green Technology in Building Construction”** on **28.06.2024**.
- The Department of Mechanical Engineering conducted an awareness session titled **“NASSCOM Future Skills Prime”** on **15.06.2024**.



## Paper Publications

- Dr. Manish Sharma, Department of Mechanical Engineering published an article titled “Analysis of Interfacial Heat Transfer Coefficients In Squeeze Casting Of Aa6061 Aluminum Alloy With H13 Steel Die: Impact Of Section Thickness On Thermal Behavior” in Thermal Science International Scientific Journal in **January 2024** doi: <https://doi.org/10.2298/TSCI230310272K>
- Dr. R. Maruthamuthu, Department of Computer Applications published an article titled “An Improved Mechanism for Optimizing Fault Detection for Big Data Analytics Environment” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85181507884&partnerID=40&md5=3fb0dd8ee025f238b79055db598d0638>.
- Mr. Amit Arya, Assistant Professor, Department of Computer Science & Technology published an article titled “A Novel Approach for Human Behaviour Prediction Using Deep Learning Algorithm” in Intelligent Systems and Applications in Engineering **January 2024**. doi: <https://ijisae.org/index.php/IJISAE/article/view/4192>.
- Dr. Jagadeesh Babu Bellam, Assistant Professor, Department of Physics published an article titled “Highly stable CsPbBr<sub>3</sub>/ PMA perovskite nanocrystals for improved optical performance” in Elsevier Ltd in **January 2024**. doi: [ISSN :24058440](https://doi.org/10.1016/j.spc.2024.100000).
- Reddy Nallabala N.K, Assistant Professor, Department of Physics published an article titled “Enhanced self-driven ultraviolet photodetection performance of high-k Ta<sub>2</sub>O<sub>5</sub>/GaN heterostructure” in Elsevier Ltd in **January 2024**. doi: [ISSN:13698001](https://doi.org/10.1016/j.spc.2024.100000).
- Bhaskaran, R, Assistant Professor, Department of Chemistry published an article titled “Lowest electronic states of neutral and ionic LiN” in International Journal of Quantum Chemistry in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85177451498&doi=10.1002%2fqua.27288&partnerID=40&md5=3cfb59726c236d0a943cb1c3c358e711>
- Rajaram. R, Assistant Professor, Department of Chemistry published an article titled “Bismuth tungstate nanocomposites for simultaneous detection of hydroquinone and resorcinol” in Materials Advances in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85182561981&doi=10.1039%2fd3ma00533j&partnerID=40&md5=9dcadcd2faf01b9cc7bbc2a6ef638ffe>.
- Amaladass. P, Assistant Professor, Department of Chemistry published an article titled “Nitrogen-doped carbon quantum dots decorated ZnO nanorods array film for efficient UV photodetector applications” in Journal of Materials Science: Materials in Electronics in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85181584837&doi=10.1007%2fs10854-023-11768-x&partnerID=40&md5=6249cedb47c7f5fa5ac6f31aa9da5623>.
- Lipika Rout, Assistant Professor, Department of Chemistry published an article titled “Graphene oxide, it’s surface functionalisation, preparation and properties of polymer-based composites: a review in Composite Interfaces” in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163672329&doi=10.1080%2f09276440.2023.2229594&partnerID=40&md5=4cf6e0ad57aa0604eee0fe8d94d5dbe9>.
- Bhaskar. B, Assistant Professor, Department of Computer Science & Engineering published an article titled “Protectors of the Android Domain: Research into Mobile Malware Detection and Defense” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**.

## Paper Publications

- Mohamed Yousuff, A.R, Assistant Professor, Department of Computer Science & Engineering published an article titled “Leveraging deep learning models for continuous glucose monitoring and prediction in diabetes management: towards enhanced blood sugar control” in International Journal of System Assurance Engineering and Management in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.085182407971&doi=10.1007%2fs13198-023-02200y&partnerID=40&md5=f6828f5eb79bc76044403087802f68cd>
- Arul, U, Assistant Professor, Department of Computer Science & Engineering published an article titled “Effective Anomaly Identification in Surveillance Videos Based on Adaptive Recurrent Neural Network” in Journal of Electrical Engineering and Technology in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85181225667&doi=10.1007%2fs42835-023-01630-9&partnerID=40&md5=757f9841baeaa4baa4073e8f10b929b8>
- Sundar. R, Assistant Professor, Department of Computer Science & Engineering published an article titled “An Effective Twitter Spam Detection Model using Multiple Hidden Layers Extreme Learning Machine” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85173768762&partnerID=40&md5=7812b2e4b49458d412c1a7d4bdc3c891>
- Geethanjali, N, Assistant Professor, Department of CSE- Artificial Intelligence Published an article titled “Protection of Network Hacking and Threats in Industry 5.0 Based on DL Intrusion Detection System” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85181672078&partnerID=40&md5=4e109fe62cfbeb43e0e55ad594b4ed19>
- S.V.S Ganga Devi, Assistant Professor, Department of CSE- Cyber Security Published an article titled “Enhancement of Image Processing based on Deep Learning Backpropagation Approach” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85181464151&partnerID=40&md5=a2bf9d3ed7a7cbab8210574c4374b07e>
- Kiran Kumar, G Assistant Professor, Department of CSE- Data Science Published an article titled “Analysis of Extreme Learning Machine Based on Multiple Hidden Layers” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0.85181472449&partnerID=40&md5=12c9024f51265638f26396f30ffb250b>
- Swetha. T, Assistant Professor, Department of CSE- Data Science Published an article titled “Advanced Cardiovascular Disease Prediction: A Comparative Analysis of Ensemble Stacking and Deep Neural Networks” in International Journal of Intelligent Systems and Applications in Engineering in **January 2024**.
- Kusuma. S, Assistant Professor, Department of CSE- Data Science Published an article titled “Early betel leaf disease detection using vision transformer and deep learning algorithms” in International Journal of Information Technology (Singapore) in **January 2024**.



## Paper Publications

- Sreelakshmi. K, Assistant Professor, Department of Mathematics published an article titled “Darcy-Forchheimer hybrid nanofluid flow in an asymmetric channel with an exponential heat source, variable thermal conductivity, and activation energy” in Numerical Heat Transfer; Part A: Applications in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85182233904&doi=10.1080%2f10407782.2023.2300746&partnerID=40&md5=8100efb2a4d35d96f3da50badebcde3e>
- Ramesh Reddy. P, Assistant Professor, Department of Mathematics Published an article titled “Influence of performance feedback and academic performance on parent–family involvement and parent satisfaction in US schools” in Journal of Community Psychology in **January 2024**. doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85167689327&doi=10.1002%2fjcop.23083&partnerID=40&md5=6834e61bfd87d6eb12d695efbc2e77ec>
- Janmoni Borah, Assistant Professor, Department of ECE published a paper titled “Transmit antenna selection for achieving energy efficiency in massive MIMO based 5G cellular network” in Radio Electronics and Communication Systems in **January 2024**.
- Janmoni Borah, Assistant Professor, Department of ECE published a paper titled “Transmit power allocation for Sub-6GHz/mmWave based 5G cellular network” in Radio Electronics and Communication Systems in **January 2024**.
- Smriti Baruah, Assistant Professor, Department of ECE published a paper titled “Transmit antenna selection for achieving energy efficiency in massive MIMO based 5G cellular network” in Radio Electronics and Communication Systems in **January 2024**.
- Smriti Baruah, Assistant Professor, Department of ECE published a paper titled “Transmit power allocation for Sub-6GHz/mmWave based 5G cellular network” in Radio Electronics and Communication Systems in **January 2024**.
- Smriti Baruah, Assistant Professor, Department of ECE published a paper titled “Hydrothermal synthesis, phase analysis and magneto–electric characterizations of lead-free ferroelectric BM2+(Zn, Ca, Mg)T-BFO system” in ACS Omega in **January 2024**.
- Mrs. M. Nandhini, Department of CSE-Data Science published an article titled “A Novel Approach of Stock Price Forecast Using Deep Learning Practices” in International Journal of Intelligent Systems and Applications in Engineering in **February 2024**.
- Mrs. Anusuri Krishna Veni, Department of CSE-Data Science published an article titled “Enhancing K-Clustering based Privacy Preserving for E-Healthcare IoT Systems” in International Journal of Intelligent Systems and Applications in Engineering in **February 2024**.
- Baskaran Selvam, Department of Mechanical Engineering published an article titled “Towards sustainability assessment, energy consumption, and carbon emissions in cryogenic drilling of Alloy 20: a new approach towards sustainable future and challenges” in International Journal of Advanced Manufacturing Technology in **February 2024** doi:[10.1007/s00170-024-13144-3](https://doi.org/10.1007/s00170-024-13144-3).
- Dr. Rajendran Rajaram, Department of Chemistry published an article titled “Unraveling the secrets of molecular and electronic structures of [Fe(CO)4(GeX)]: A DFT study” in Chemical Physics Impact in **February 2024** doi: [10.1016/j.chphi.2023.100415](https://doi.org/10.1016/j.chphi.2023.100415).



## Paper Publications

- P. Amaladass, Department of Chemistry published an article titled “Improved ultraviolet photodetector performances using solution-processed nitrogen-doped carbon quantum dots/ZnO hybrid thin films” in Thin Solid Films in February 2024. doi: [10.1016/j.tsf.2024.140221](https://doi.org/10.1016/j.tsf.2024.140221).
- Nanda Kumar Reddy Nallabala, M. Chandra Sekhar, Department of Physics published an article titled “Highly Performing MSM Type Ag/n-titanium Dioxide Nanotubes/p-Si Heterojunction Based Ultraviolet-A Photodetectors” in Silicon in February 2024 doi: [10.1007/s12633-024-02877-1](https://doi.org/10.1007/s12633-024-02877-1).
- K.V. Narasimha Murthy, Department of Mathematics published an article titled “Dynamic Linear Modeling for Characterizing and Predicting the Patterns of Summer Monsoon Rainfall in Northwest India” in Pure and Applied Geophysics in February 2024 doi: [10.1007/s00024-023-03425-5](https://doi.org/10.1007/s00024-023-03425-5).
- G. Sreenivasulu, Department of EEE published an article titled “A coordinated stochastic dispatch model for hybrid energy markets with renewable energy uncertainties using moth flame optimization” in Energy Systems in February 2024 doi: [10.1007/s12667-022-00535-2](https://doi.org/10.1007/s12667-022-00535-2).
- S. Manoj Kumar, Department of Mechanical Engineering published an article titled “Characterization of heat-treated biosilica from biomass waste fox tail millet husks and banana fiber reinforced epoxy composite” in Biomass Conversion and Biorefinery in February 2024 doi: [10.1007/s13399-024-05411-w](https://doi.org/10.1007/s13399-024-05411-w).
- P. Sivaiah, N. Siva Balaji, Department of Mechanical Engineering published an article titled “Comparative analysis and experimental exploration of the milling process in the machining of Inconel 825 material under MQL” in Materials and Manufacturing Processes in February 2024 doi: [10.1080/10426914.2024.2311387](https://doi.org/10.1080/10426914.2024.2311387)
- S. Manoj Kumar, Department of Mechanical Engineering published an article titled “Mechanical, wear, hydrophobic, and thermal behavior of waste cassava root cellulose and twill-weaved banana fiber-reinforced unsaturated polyester composites” in Biomass Conversion and Biorefinery in February 2024 doi: [10.1007/s13399-024-05349-z](https://doi.org/10.1007/s13399-024-05349-z).
- Baskaran Selvam, Department of Mechanical Engineering published an article titled “Towards sustainability assessment, energy consumption, and carbon emissions in cryogenic drilling of Alloy 20: a new approach towards sustainable future and challenges” in International Journal of Advanced Manufacturing Technology in February 2024 doi: [10.1007/s00170-024-13144-3](https://doi.org/10.1007/s00170-024-13144-3).
- Aravindraj, E, Department of Electronics & Communication Engineering published an article titled “A Compact Sierpinski Gasket Fractal Antenna for S, C, X, and Ku Band Applications” in Progress in Electromagnetics Research C in February 2024 doi: [10.2528/PIERC23110704](https://doi.org/10.2528/PIERC23110704).
- R. Kalpana, Department of Computer Science & Engineering published an article titled “Analysis on quantum reinforcement learning algorithms for prediction of protein sequence” in Optical and Quantum Electronics in February 2024 doi: [10.1007/s11082-023-06244-z](https://doi.org/10.1007/s11082-023-06244-z).



## Paper Publications

- Vivekananda G. N, Department of Computer Science & Engineering published an article titled “Achieving concurrency in cloud-orchestrated Internet of Things for resource sharing through multiple concurrent access” in Computational Intelligence in February 2024 doi: [10.1111/coin.12296](https://doi.org/10.1111/coin.12296).
- Deepthi, P, Department of Computer Science & Engineering published an article titled “A Comparative Study on Machine Learning and Fuzzy Logic-Based Approach for Enhancing Credit Card Fraud Detection” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185275690&partnerID=40&md5=aa3db346cb94926462cab893886d496d3>.
- Shabbeer Basha, K.H, Department of Computer Science & Engineering published an article titled “Analysis of Voltage Source Inverter with Photovoltaic Renewable Energy Source for Improving Power Quality in Solar” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184937961&partnerID=40&md5=874181ec8de116ea62303ba2e34a7f85>.
- Amit Arya, Department of Computer Science & Technology published an article titled “A Quantum Machine Learning Approach for Bridging the Gap Between Quantum and Classical Computing” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185300156&partnerID=40&md5=8a1c01ae19705de9639f41b143e38e3f>.
- Maruthi Prasad. V, Department of Computer Science & Technology, Swetha, G.N., Department of Electronics & Communication Engineering published an article titled “Creation of A Music Recommendation System using Facial Expression Recognition with MATLAB” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184710604&partnerID=40&md5=ff387667a13b41f274331eaf59adcd25>.
- D. Suresh, Department of Computer Science & Technology published an article titled “Analysing a Duo of Widespread Neurodegenerative Disorders: Exploring Their Roots, Clinical Expressions, Unfolding Processes, and the Arsenal of Available Therapies” in Tuijin Jishu/Journal of Propulsion Technology in February 2024.
- Dr. N. Magesh kumar, Department of Computer Science & Technology published an article titled “Wireless Sensor Networks Consistent and Honest Routing Scheme”, in IEEE Conference in February 2024.
- M MUTHARASU, Department of CSE- Cyber security published an article titled “Energy Efficient Task Scheduling Strategy using Modified Coot Optimization Algorithm for Cloud Computing” in Journal of Intelligent Systems and Internet of Things in February 2024 doi <https://doi.org/10.54216/JISIoT.120104>.
- Dr. K. Srinivasa Krishna & Dr. B. Rajesh Kumar, Department of Management Studies published an article titled “Predictive stock market trends with artificial Intelligence and Time series analysis with respect to FMCG gold and Banking sectors” in Migration Letters in February 2024.



## Paper Publications

- A. Naga Lakshmi, Department of CSE-Artificial Intelligence published an article titled “Data Generation for Speech Recognition based on Generative Adversarial Networks” in International Journal of Intelligent Systems and Applications in Engineering (IJISAE)Journal, Scopus in February 2024 doi <https://ijisae.org/index.php/IJISAE/article/view/4724>, 07-02-24, 12, 15s, 126-135.
- K Mahammad, Department of CSE-Artificial Intelligence published an article titled "Early prediction of chronic heart disease with recursive feature elimination and supervised learning techniques" in IAES International Journal of Artificial Intelligence Journal, Scopus in February 2024 doi: <https://ijai.iaescore.com/index.php/IJAI/article/view/23655>.
- Mr. R. Ashok Kumar, Department of CSE-Artificial Intelligence published an article titled “Machine Learning-Based Intrusion Detection: A Comparative Analysis among Datasets and Innovative Feature Reduction for Enhanced Cybersecurity” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185259634&partnerID=40&md5=c950832f8d6541cef7d5eb6d0bfc9757>.
- Ayisha Noori, V.K, Department of CSE-Artificial Intelligence published an article titled “Analysis of Student’s Education Data Based on Data Mining Techniques” in International Journal of Intelligent Systems and Applications in Engineering in February 2024 doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185282253&partnerID=40&md5=8864eb18182d771600486a8ae830e61d>.
- Mr. Vijayakumar Natesan, Department of Civil Engineering published an article titled “Corrigendum to “Effectiveness of CFS web cleat bolted connections between beam–to–column” in Structures in March 2024 doi: [10.1016/j.istruc.2024.106106](https://doi.org/10.1016/j.istruc.2024.106106).
- Mr. Sudheer. N, Department of Computer Science & Technology published an article titled “Contemporary Social Media and Iot Based Pandemic Control; An Analytical Approach” in Migration Letters in March 2024.
- Kanimozhi S. Department of Computer Science & Engineering – Cyber Security published an article titled “Performance Assessment of Virtual Machine Consolidation and Placement in Software Defined Network using CloudSim” in International Journal of Intelligent Systems And Applications in Engineering (IJISAE) in March 2024 doi: <https://ijisae.org/index.php/IJISAE/article/view/5266>.
- Kanimozhi S. Department of Computer Science & Engineering – Cyber Security published an article titled “One-pot hydrothermal method of green-synthesized nitrogen-doped carbon quantum dots for ultra-sensitive dual detection of tannic acid and Hg<sup>2+</sup> ions” in Springer in March 2024 doi: <https://doi.org/10.1007/s13204-024-03036-z>.
- Dr. N. Komal Kumar, Department of Computer Science & Engineering- Data Science published an article titled “Early prediction of chronic heart disease with recursive feature elimination and supervised learning techniques” in IAES International Journal of Artificial Intelligence in March 2024 doi: [10.11591/ijai.v13.i1.pp730-736](https://doi.org/10.11591/ijai.v13.i1.pp730-736).
- Mrs. R. Roopa, Department of Computer Science & Engineering- Data Science published an article titled “Pattern Recognition to Enhance Video Based Human Identification for Advanced Security” in International Journal of intelligent Systems and Applications in Engineering in March 2024 doi: <https://ijisae.org/index.php/IJISAE/article/view/5328/4054>.





## Paper Publications

- Jagannath Pattar, Department of Mechanical Engineering published an article titled “Microgrids with day-ahead energy forecasting for efficient energy management in smart grids: hybrid CS-RERNN” in Australian Journal of Electrical and Electronics Engineering in **March 2024** doi: [10.1080/1448837X.2024.2312488](https://doi.org/10.1080/1448837X.2024.2312488).
- P. Sivaiah, C. Yuvaraj, Department of Mechanical Engineering published an article titled “Performance evaluation of developed new textured tools during turning of AISI 321 material” in Materials and Manufacturing Processes in **March 2024** doi: [10.1080/10426914.2023.2260460](https://doi.org/10.1080/10426914.2023.2260460).
- Appana Naga Lakshmi, Department of CSE-Artificial Intelligence published an article titled “Data Generation for Speech Recognition based on Generative Adversarial Networks” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.085187415452&partnerID=40&md5=2a882553f698a5f2f0f44123c64e6e3d>
- Dr. Aravind. B, Department of Computer Science & Technology published an article titled “Improved Crow Search-Based Feature Selection and Ensemble Learning for IoT Intrusion Detection” in IEEE Access in **March 2024** doi: [10.1109/ACCESS.2024.3372859](https://doi.org/10.1109/ACCESS.2024.3372859).
- K Sree Divya, Department of Computer Science & Technology published an article titled “An Improved Mutual Exclusion Mac Protocol For Mac Layer In Manet To Overcome Hidden And Exposed Terminal Problem” in Journal of Theoretical and Applied Information Technology in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85186715721&partnerID=40&md5=df7f236a3c5a4b3c61b008513d6db1aa>
- Dr. Magesh Kumar. N, Department of Computer Science & Technology published an article titled “Prediction of User Attrition in Telecommunication Using Neural Network” in EAI Endorsed Transactions on Scalable Information Systems in **March 2024**.
- Dr. Magesh Kumar. N, Department of Computer Science & Technology published an article titled “Distributed Dos Attacks Detection Based on Machine Learning Techniques in Software Defined Networks” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024**.
- Sundar, R, Department of Computer Science & Engineering published an article titled “Future directions of artificial intelligence integration: Managing strategies and opportunities” in Journal of Intelligent and Fuzzy Systems in **March 2024** doi: [10.3233/JIFS-238830](https://doi.org/10.3233/JIFS-238830).
- Sundar, R, Department of Computer Science & Engineering published an article titled “Cloud computing encrypted image retrieval strategy in cloud computing using a hybrid optimization algorithm” in Journal of Intelligent and Fuzzy Systems in **March 2024** doi: [10.3233/JIFS-237948](https://doi.org/10.3233/JIFS-237948).
- Anusuri Krishna Veni, Department of Computer Science & Engineering published an article titled “Enhancing K-Clustering based Privacy Preserving for E-Healthcare IoT Systems” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85187419583&partnerID=40&md5=9be3cea157109c3760f31f94956884d4>.
- M. Rajasekaran, Department of Computer Science & Engineering published an article titled “A Review of Power Management Approaches for Mobile Ad Hoc Networks” in



## Paper Publications

- Thripathi P. Balakrishnan, Department of Computer Science & Engineering published an article titled “Enhancing the Food Processing in Industry 5.0 Based on Artificial Intelligence” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185657419&partnerID=40&md5=b025678f3dc243e2fdbfbd546acd9216>
- G. Muthugurunathan, Department of Computer Science & Engineering published an article titled “Predictive Analytics in Stock Markets: Unleashing the Power of IoT and Machine Learning” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185487868&partnerID=40&md5=14803d88963910843967ba03b9dcb5a6>
- Nirupa. V, Department of Computer Science & Engineering published an article titled “Detection and Classification of Diabetic Retinopathy Using Inception V3 and Xception Architectures” in International Journal of Nutrition, Pharmacology, Neurological Diseases in **March 2024** doi: [10.4103/ijnpnd.ijnpnd\\_76\\_23](https://doi.org/10.4103/ijnpnd.ijnpnd_76_23).
- Rakesh N. Tiwari, Department of Electronics & Communication Engineering published an article titled “Dual-Band MIMO Antenna Data Telemetry for Dual-Chamber Leadless Cardiac Pacing on Internet of Things Environment” in IEEE Internet of Things Journal in **March 2024** doi: [10.1109/JIOT.2023.3321903](https://doi.org/10.1109/JIOT.2023.3321903).
- Smriti Baruah, Department of Electronics & Communication Engineering published an article titled “Hydrothermal Synthesis, Phase Analysis, and Magneto-Electronic Characterizations of Lead-Free Ferroelectric BM2+(Zn, Ca, Mg) T-BFO System” in ACS Omega in **March 2024** doi: [10.1021/acsomega.3c08072](https://doi.org/10.1021/acsomega.3c08072).
- Kumar, C, Department of Electronics & Communication Engineering published an article titled “Enhancing efficiency in electrical distribution systems: A novel approach via modified genetic optimization algorithm for loss reduction in optimal network distribution” in Journal of Intelligent and Fuzzy Systems in **March 2024** doi: [10.3233/JIFS-233917](https://doi.org/10.3233/JIFS-233917).
- E. Sathiyarayanan, Department of Electronics & Communication Engineering published an article titled “Revolutionizing Human-Robot Interaction (HRI): Multimodal Intelligent Robotic System for Responsive Collaboration” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85187482828&partnerID=40&md5=00c9a20667210205b0ddd60917358736>.
- Smriti Baruah, Janmoni Borah, Subramaniam Rajasekaran, Department of Electronics & Communication Engineering published an article titled “Analytical investigation of CdSe/CdS/ZnSe-based single-core double-shell nanotextured vertical nanopillar array antenna for broadband photodetection applications” in International Journal of Communication Systems in **March 2024** doi: [10.1002/dac.5752](https://doi.org/10.1002/dac.5752).
- P. Kowsalya, Department of Electronics & Communication Engineering published an article titled “Online Fraudulence Detection Based on Decision Support System in Digital Banking” in International Journal of Intelligent Systems and Applications in Engineering in **March 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85187433882&partnerID=40&md5=55e108d71a28332fe2bflcfa936b1e1a..>



## Paper Publications

- Anbarasi Kannan, V. Bhavana, S. Mohammad Younus, S. Mujeebur Rehman, Department of Electronics & Communication Engineering published an article titled “Experimental Demonstration and Performance Analysis of Free Space and Underwater Optical Wireless Communication Systems” in Wireless Personal Communications in **March 2024** doi: [10.1007/s11277-024-10887-w](https://doi.org/10.1007/s11277-024-10887-w).
- Mr. Vijayakumar Natesan, Department of Civil Engineering published an article titled “Numerical investigation of cold formed steel sleeve connection for channel sections subjected to combined bending and shear” in Journal of Constructional Steel Research in **April 2024** doi: [10.1016/j.jcsr.2024.108588](https://doi.org/10.1016/j.jcsr.2024.108588).
- Mr. Lakshmikhandan. K, Department of Electrical & Electronics Engineering published an article titled “Enhanced Predictive Model for Grid Stability Using Hybrid GBM-LSTM Approach” in International Journal of Renewable Energy Research in **April 2024** doi: [10.20508/ijrer.v14i1.14591.g8880](https://doi.org/10.20508/ijrer.v14i1.14591.g8880).
- R Ravindraiah, Department of Electronics & Communication Engineering published an article titled “Clinical Application of Neural Network for Cancer Detection Application” in EAI Endorsed Transactions on Pervasive Health and Technology in **April 2024** doi: [10.4108/eetpht.10.5454](https://doi.org/10.4108/eetpht.10.5454).
- Abuthahir Syed Ibrahim, Department of Computer Science & Engineering published an article titled “Intelligent-of-things multiagent system for smart home energy monitoring” in Indonesian Journal of Electrical Engineering and Computer Science in **April 2024** doi: [10.11591/ijeecs.v34.i3.pp1858-1867](https://doi.org/10.11591/ijeecs.v34.i3.pp1858-1867).
- Rajasekaran, M, Department of Computer Science & Engineering published an article titled “WHITE HOLE ATTACKER DETECTION IN MOBILE ADHOC NETWORK” in Journal of Theoretical and Applied Information Technology in **April 2024**.
- D. Jagadeesan, Department of Computer Science & Engineering published an article titled “Novel hybrid optimization based adaptive deep convolution neural network approach for human activity recognition system” in Multimedia Tools and Applications in **April 2024** doi: [10.1007/s11042-024-19095-x](https://doi.org/10.1007/s11042-024-19095-x).
- Y. Ravi Raju, Department of Computer Science & Technology published an article titled “Integrating the Internet of Things to Protect Electric Vehicle Control Systems from Cyber Attacks” in IAENG International Journal of Applied Mathematics in **April 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189429697&partnerID=40&md5=4c274a4daf33c6d45552aa173e4400c4>.
- Thiyagu, T, Department of CSE- Cyber Security published an article titled “Design And Evolution Of Mac Algorithm Based Strategy To Mitigate Black Hole Attacks In Wireless Sensor Network” in Journal of Theoretical and Applied Information Technology in **April 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190590504&partnerID=40&md5=705e2dd23d4dc74bfcc42f1189e508c6>.
- Mutharasu, M, Department of CSE- Cyber Security published an article titled “Energy Efficient Task Scheduling Strategy using Modified Coot Optimization Algorithm for Cloud Computing” in Journal of Intelligent Systems and Internet of Things in **April 2024** doi: [10.54216/JISIoT.120104](https://doi.org/10.54216/JISIoT.120104).



## Paper Publications

- K. Lokeshwaran, Department of CSE- Data Science published an article titled “Energy efficient multi-objective cluster-based routing protocol for WSN using Interval Type-2 Fuzzy Logic modified dingo optimization” in Peer-to-Peer Networking and Applications in **April 2024** doi: [10.1007/s12083-024-01696-w](https://doi.org/10.1007/s12083-024-01696-w).
- Charan Kuchi, Department of Physics published an article titled “Synthesis and Properties of Eu and Ni Co-Doped ZnS Nanoparticles for the Detection of Ammonia Gas” in ECS Journal of Solid State Science and Technology in **April 2024** doi: [10.1149/2162-8777/ad34fb](https://doi.org/10.1149/2162-8777/ad34fb).
- Charan Kuchi, Department of Physics published an article titled “Graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) decorated on CuCo<sub>2</sub>O<sub>4</sub> nanosphere composites for enhanced electrochemical performance for energy storage applications” in Materials Today Communications in **April 2024** doi: [10.1016/j.mtcomm.2024.108688](https://doi.org/10.1016/j.mtcomm.2024.108688).
- K. Chandrakanta, Department of Physics published an article titled “A study on the tunable magnetic and magnetodielectric properties of KBFO-CFO composite” in Journal of Materials Science: Materials in Electronics in **April 2024** doi: [10.1007/s10854-024-12578-5](https://doi.org/10.1007/s10854-024-12578-5).
- R. Maruthamuthu, N. Naveenkumar, Department of Computer Applications published an article titled “Impact of nutrients in food quality and safety by machine learning classifier using internet of things” in International Journal of Information Technology (Singapore) in **April 2024** doi: [10.1007/s41870-024-01840-y](https://doi.org/10.1007/s41870-024-01840-y).
- Nanda Kumar Reddy Nallabala, Department of Physics published an article titled “Enhanced pursuance of dye-sensitized solar cell for indoor and outdoor stability using reduced graphene oxide @ Mn<sub>2</sub>O<sub>3</sub> nanocomposite” in Carbon Letters in **April 2024** doi: [10.1007/s42823-023-00646-5](https://doi.org/10.1007/s42823-023-00646-5).
- Ramesh Reddy, Department of Mathematics published an article titled “Chemical Reaction and Viscous Dissipative Effects on Buongiorno’s Nanofluid Model Past an Inclined Plane: A Numerical Investigation” in International Journal of Applied and Computational Mathematics in **April 2024** doi: [10.1007/s40819-024-01723-7](https://doi.org/10.1007/s40819-024-01723-7).
- Rakesh N Tiwari, Department of Electronics & Communication Engineering published an article titled “Circumferential slots based decoupled wideband MIMO antenna for 5G and sub-6 GHz applications” in Physica Scripta in **April 2024** doi: [10.1088/1402-4896/ad43c9](https://doi.org/10.1088/1402-4896/ad43c9).
- Veeraiyah Thangasam, Department of Electrical & Electronics Engineering published an article titled “Design, Implementation and Performance Analysis of RF Power Amplifier for 5G Mobile Communication in the Sub-6 GHz Band Using Advanced Node 18nm FinFET Technology” in Mathematical Modelling of Engineering Problems in **May 2024** doi: [10.18280/mmep.110426](https://doi.org/10.18280/mmep.110426).
- Arapirala Venkata Pavan Kumar, Department of Electrical & Electronics Engineering published an article titled “Unbalanced Distribution Network Cross-Country Fault Diagnosis Method with Emphasis on High-Impedance Fault Syndrome” in Engineering, Technology and Applied Science Research in **May 2024** doi: [10.48084/etasr.6917](https://doi.org/10.48084/etasr.6917).
- Usuf Rahaman, Department of Physics published an article titled “Microscopic Investigation of Ground State Properties and Shape Evolution in Osmium Isotopes” in Brazilian Journal of Physics in **April 2024** doi: [10.1007/s13538-024-01473-3](https://doi.org/10.1007/s13538-024-01473-3).



## Paper Publications

- Lakshmikhandan. K, Department of Electrical & Electronics Engineering published an article titled “Green Horizons Sustainable Practices In Data Centre Networking For Environmental Conservation” in Journal of Environmental Protection and Ecology in **May 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191743800&partnerID=40&md5=2b6b20e4f78539c85ed854a034ac4254>
- Ilangovan Arun, Igor Velkavrh, Uma Rani R, Sivakumar Annamalai and Yuvaraj.C, Department of Mechanical Engineering published an article titled “Electrical discharge shape memory alloying of Ti-6Al-4V: Mechanisms and mechanical properties” in Journal of Process Mechanical Engineering in **May 2024** DOI: [10.1177/09544089241259665](https://doi.org/10.1177/09544089241259665).
- Mohan M, Department of Computer Science & Engineering published an article titled “Hybrid deep learning enabled breast cancer detection using mammogram images” in Biomedical Signal Processing and Control in **May 2024** doi: [10.1016/j.bspc.2024.106310](https://doi.org/10.1016/j.bspc.2024.106310).
- Bommy Manivannan, Department of Computer Science & Engineering published an article titled “Consistency, local stability, and approximation of Shapash explanation” in Telkomnika (Telecommunication Computing Electronics and Control) in **May 2024** doi: [10.12928/TELKOMNIKA.v22i3.25560](https://doi.org/10.12928/TELKOMNIKA.v22i3.25560).
- G. Arunkumar, Department of Computer Science & Engineering published an article titled “LCO-EGC: levy chaotic optimization-based enhanced graph convolutional network for monitoring health of sports athletes” in Wireless Networks in **May 2024** doi: [10.1007/s11276-023-03574-4](https://doi.org/10.1007/s11276-023-03574-4).
- Dr K P MANIKANDAN, Department of CSE- Cyber Security published an article titled “Unveiling Android Threats: Malware Identification Through Machine Learning” in African Journal of Biological Sciences (South Africa) in **May 2024** doi:[10.33472/AFJBS.6.8.2024.471-481](https://doi.org/10.33472/AFJBS.6.8.2024.471-481).
- Rajkumar Govindarajan, Vidhyashree Balaji, Department of CSE- Data Science published an article titled “Evaluation of sequential feature selection in improving the K-nearest neighbor classifier for diabetes prediction” in IAES International Journal of Artificial Intelligence in **May 2024** doi: [10.11591/ijai.v13.i2.pp1567-1573](https://doi.org/10.11591/ijai.v13.i2.pp1567-1573).
- Lokeshwaran. K, Department of CSE- Data Science published an article titled “Green Ai Revolution Machine Learning For Environmental-Friendly Communication Networks” in Journal of Environmental Protection and Ecology in **May 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191727366&partnerID=40&md5=afd158b12672a0d136e32cea2f433a1b>
- Dr. B. Rajesh Kumar, Department of Management Studies published an article titled "Gender Diversity and Governance Excellence: Exploring the Financial Implications of Independent and Female Directors in Indian Listed Companies" in Educational Administration: Theory and Practice in **May 2024** page. No: 5818-5829 ISSN: [2148-2403](https://doi.org/10.1080/00137581.2024.234275).
- Althaf Ali, A, Department of Computer Applications published an article titled “Determination of the time location points and investigation of the body sensor network using RATDMA and PATDMA” in Journal of Intelligent and Fuzzy Systems in **May 2024** doi: [10.3233/JIFS-234275](https://doi.org/10.3233/JIFS-234275).
- Subba Rao A, Department of Mathematics published an article titled “Effect of inclined Lorentzian force on radiated nanoflow Williamson model under asymmetric energy source/sink: Keller box method” in APL Materials in **May 2024** doi: [10.1063/5.0201939](https://doi.org/10.1063/5.0201939).



## Paper Publications

- K. V. Narasimha Murthy, Department of Mathematics published an article titled “Numerical simulation of natural convection in a rectangular enclosure filled with porous medium saturated with magnetic nanofluid using Buongiorno's two-component model” in Canadian Journal of Chemical Engineering in **May 2024** doi: [10.1002/cjce.25300](https://doi.org/10.1002/cjce.25300).
- Chandrasekar Perumal Veeramalai, Department of Physics published an article titled “Bi<sub>2</sub>Se<sub>3</sub> nanosheets prepared by solvothermal method for high performance NIR photodetector” in Colloids and Surfaces A: Physicochemical and Engineering Aspects in **May 2024** doi: [10.1016/j.colsurfa.2024.134090](https://doi.org/10.1016/j.colsurfa.2024.134090).
- Chandrasekar Perumal Veeramalai, Department of Physics published an article titled “Monolithically grown CSPbBr<sub>3</sub> by chemical vapor deposition for Self-Powered photodetector” in Chemical Engineering Journal in **May 2024** doi: [10.1016/j.cej.2024.152213](https://doi.org/10.1016/j.cej.2024.152213).
- Rajesh Dagupati, Department of Physics published an article titled “Effect of B<sub>2</sub>O<sub>3</sub> on Optical Properties of Dy<sup>3+</sup> Ion-Doped Zinc–Aluminum–Sodium–Phosphate Glasses” in Journal of Applied Spectroscopy in **May 2024** doi: [10.1007/s10812-024-01731-x](https://doi.org/10.1007/s10812-024-01731-x).
- Majumdar, A. D, Department of Physics published an article titled “Descriptive and Correlation Analysis of Physicochemical Properties of Ground Water of Delhi and NCR Region, India” in African Journal of Biological Sciences (South Africa) in **May 2024** doi: [10.33472/AFJBS.6.5.2024.2554-2561](https://doi.org/10.33472/AFJBS.6.5.2024.2554-2561).
- Chandra Sekhar Musalikunta, Department of Physics published an article titled “Unveiling the potential of nonconjugate linkers (sp<sup>3</sup>-cores) in through-space charge transfer emitters and host materials for thermally activated delayed fluorescence organic light emitting diodes” in Journal of Materials Chemistry C in **May 2024** doi: [10.1039/d4tc00591k](https://doi.org/10.1039/d4tc00591k).
- Renjith Bhaskaran, Department of Chemistry published an article titled “Thiourea Functionalised Receptor for Selective Detection of Mercury Ions and its Application in Serum Sample” in Journal of Fluorescence in **May 2024** doi: [10.1007/s10895-024-03740-7](https://doi.org/10.1007/s10895-024-03740-7).
- Renjith Bhaskaran, Department of Chemistry published an article titled “Detecting Moisture in Building Materials and Commercial Food adducts by 2-Hydroxy-naphthaldehyde Derived Chromo-Fluorogenic Chemosensor” in Journal of Fluorescence in **May 2024** doi: [10.1007/s10895-024-03700-1](https://doi.org/10.1007/s10895-024-03700-1).
- K Giridhar, Department of CST published an article titled “EEG-Based Brain-Computer Interfaces Using Gazelle Optimization Algorithm with Deep Learning for Motor-Imagery Classification” in Fusion: Practice and Applications in **May 2024** doi: <https://doi.org/10.54216/FPA.160103>.
- Amit Arya A, Department of CST published an article titled “Quantum Machine Learning Approach for Bridging the Gap Between Quantum and Classical Computing” in Intelligent Systems And Applications In Engineering in **May 2024** doi: <https://www.ijisae.org/index.php/IJISAE/article/view/4539>.
- Dr. K. Sree Divya, Department of CST published an article titled “Machine Learning for Characterization and Analysis of Microstructure and Spectral Data of Materials” in Intelligent Systems And Applications In Engineering in **May 2024** doi: <https://ijisae.org/index.php/IJISAE/article/view/5478>.



## Paper Publications

- G. Nakkeeran, Department of Civil Engineering published an article titled “Soft computing techniques for predicting the compressive strength properties of fly ash geopolymer concrete using regression-based machine learning approaches” in Journal of Building Pathology and Rehabilitation in **June 2024** doi: [10.1007/s41024-024-00461-z](https://doi.org/10.1007/s41024-024-00461-z).
- Mr. C. H. Srinivas, Department of Electrical & Electronics Engineering published an article titled “A novel hybrid approach for efficient energy management in battery and supercapacitor based hybrid energy storage systems for electric vehicles” in Electrical Engineering in **June 2024** doi: [10.1007/s00202-024-02483-9](https://doi.org/10.1007/s00202-024-02483-9).
- Ilangovan Arun, Yuvaraj C, Department of Mechanical Engineering published an article titled “Electrical discharge shape memory alloying of Ti-6Al-4V: Mechanisms and mechanical properties” in Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering in **June 2024** doi: [10.1177/09544089241259665](https://doi.org/10.1177/09544089241259665).
- Siva Balaji. N, Department of Mechanical Engineering published an article titled “Exploring The Synergy: Nano SiO<sub>2</sub> Reinforcement In Basalt Fiber Epoxy Composites For Improved Tribological And Mechanical Properties” in Journal of the Balkan Tribological Association in **June 2024** doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85196183996&partnerID=40&md5=5cf7fab32fc2b1938e86b1fe46f410d5>.
- Mohit Kumar Singh, Department of Electronics & Communication Engineering published an article titled “Simulation investigations of an efficient L-band bi-frequency MILO with ridged-disk-loaded interaction structure” in Physics of Plasmas in **June 2024** doi: [10.1063/5.0200379](https://doi.org/10.1063/5.0200379).
- Rakesh N. Tiwari, Department of Electronics & Communication Engineering published an article titled “Design of Dual-Band 4-Port Flexible MIMO Antenna for mm-Wave Technologies and Wearable Electronics” in IEEE Access in **June 2024** doi: [10.1109/ACCESS.2024.3412712](https://doi.org/10.1109/ACCESS.2024.3412712).
- Gourav Kumar Suman, Suman Yadav, Department of Electronics & Communication Engineering published an article titled “A novel LF-TLBO-based optimisation scheme for islanding detection in microgrids” in Electrical Engineering Access in **June 2024** doi: [10.1007/s00202-024-02512-7](https://doi.org/10.1007/s00202-024-02512-7).
- Rakesh N. Tiwari, Department of Electronics & Communication Engineering published an article titled “A flexible dual-band 4 × 4 MIMO antenna for 5G mm-wave 28/38 GHz wearable applications” in Scientific Reports in **June 2024** doi: [10.1038/s41598-024-65023-2](https://doi.org/10.1038/s41598-024-65023-2).
- Anandaraj. B, Department of Computer Science & Engineering published an article titled “Enhancing MANET Battery Life and Performance Using Cluster Node” in International Journal of Engineering Trends and Technology in **June 2024** doi: [10.14445/22315381/IJETT-V72I5P137](https://doi.org/10.14445/22315381/IJETT-V72I5P137).
- Dr. R. Manikhandan, Department of Computer Science & Technology published an article titled “Integrating Intelligent Breach Detection System into 6g Enabled Smart Grid-Based Cyber Physical Systems” in Wireless Personal Communications in **June 2024** doi: [10.1007/s11277-024-11192-2](https://doi.org/10.1007/s11277-024-11192-2).
- Dr. R. Manikhandan, Department of Computer Science & Technology published an article titled “An Integration of Digital Twin and 6G Edge Computing Approach to Secure Cyber Physical Systems” in Wireless Personal Communications in **June 2024** doi: [10.1007/s11277-024-11181-5](https://doi.org/10.1007/s11277-024-11181-5).



## Paper Publications

- Dr. N. Komal Kumar, Department of CSE- Data Science published an article titled “Enhancing Wind Power Generation Forecasting with Advanced Deep Learning Technique using Wavelet-Enhanced Recurrent Neural Network and Gated Linear Units” in International Journal of Renewable Energy Research in **June 2024** doi: [10.20508/ijrer.v14i2.14577.g8893](https://doi.org/10.20508/ijrer.v14i2.14577.g8893).
- K. Chandra, Department of Humanities published an article titled “Investigating the Impact of Compressed Sensing Techniques and IoT in Medical Imaging” in Journal of Intelligent Systems and Internet of Things in **June 2024** doi: [10.54216/JISIoT.120214](https://doi.org/10.54216/JISIoT.120214).
- Nanda Kumar Reddy Nallabala, C. Yuvaraj, Department of Physics published an article titled “Realization of CO<sub>2</sub> gas sensors and broadband photodetectors using metal/high-k CeO<sub>2</sub>/p-Si heterojunction” in Ceramics International in **June 2024** doi: [10.1016/j.ceramint.2024.05.482](https://doi.org/10.1016/j.ceramint.2024.05.482).
- Priya, S.S, Department of English & Foreign Languages published an article titled “Enhancing Language Acquisition through Literary Texts: A Comprehensive Approach to English Language Instruction” in African Journal of Biological Sciences (South Africa) in **June 2024** doi: [10.33472/AFJBS.6.SI1.2024.1-10](https://doi.org/10.33472/AFJBS.6.SI1.2024.1-10).
- A. Barik, Department of Physics published an article titled “Tuning the Magnetic and Electrical Properties of LaYFe<sub>2</sub>O<sub>6</sub> by Mn Substitution” in Journal of Superconductivity and Novel Magnetism in **June 2024** doi: [10.1007/s10948-024-06770-1](https://doi.org/10.1007/s10948-024-06770-1).
- Komal Kumar Napa, Angati Kalyan Kumar, Sangeetha Murugan, Kamaluru Mahammad, Department of Computer Science & Engineering published an article titled “Early prediction of chronic heart disease with recursive feature elimination and supervised learning techniques” in IAES International Journal of Artificial Intelligence in **June 2024** doi: [10.11591/ijai.v13.i1.pp730-736](https://doi.org/10.11591/ijai.v13.i1.pp730-736).
- Rama Krishna Gandhi, Department of Computer Science & Engineering published an article titled “Dynamic Sign Language Recognition Through an Ensemble of Deep Learning Techniques” in African Journal of Biological Sciences (South Africa) in **June 2024** doi: [10.33472/AFJBS.6.10.2024.945-950](https://doi.org/10.33472/AFJBS.6.10.2024.945-950).
- Deepthi P, Kalyan B, Varun Choudary T, Yuva Prakash Reddy C, Vishnu Sai Rao K, Department of Computer Science & Engineering published an article titled “Neurovascular Crisis Prediction Using Machine Learning” in African Journal of Biological Sciences (South Africa) in **June 2024** doi: [10.33472/AFJBS.6.10.2024.996-1003](https://doi.org/10.33472/AFJBS.6.10.2024.996-1003).
- J. Ashpin Pabi, Department of Computer Science & Engineering published an article titled “Bio-cellulose-derived rGO-supported SmCoO<sub>3</sub> hybrid composite photoanode for high performance dye-sensitized solar cells” in Journal of Materials Science: Materials in Electronics in **June 2024** doi: [10.1007/s10854-024-12898-6](https://doi.org/10.1007/s10854-024-12898-6).
- Rajkumar. G, Mrs. Vidhyashree B, Department of CSE- Data Science published an article titled “Evaluation of sequential feature selection in improving the K-nearest neighbor classifier for diabetes prediction” in IAES International Journal of Artificial Intelligence in **June 2024** doi: [10.11591/ijai.v13.i2.pp1567-1573](https://doi.org/10.11591/ijai.v13.i2.pp1567-1573).
- Reddeppa Nadimicherla, M. Chandra Sekhar, Department of Physics published an article titled “Poly(ethylene glycol)/poly(vinylidene) fluoride/TiO<sub>2</sub> nanoparticle composite for sandwiched solid-state dye-sensitized solar cells” in Journal of Materials Science: Materials in Electronics in **June 2024** doi: [10.1007/s10854-024-12731-0](https://doi.org/10.1007/s10854-024-12731-0).





## Conference Papers

- J. Selvi, T. S. Balaji Damodhar, P. Sathyanathan, S. Sujatha, S. Priya, Assistant professor, Department of EEE presented a paper titled “[Integrating Cloud Computing with IoT for Battery Monitoring in Electric Vehicles](#)” in 2023 Second International Conference on Smart Technologies for Smart Nation (SmartTechCon) in **January, 2024** pp. 1200-1204.
- G. Chandrasekaran, N. Rathika, M. Venkatesh, S. Sujatha, T. Kanthimathi, Assistant professor, Department of EEE presented a paper titled “[Electric Vehicle Based Hybrid Energy Storage System using IoT](#)” in 2023 Second International Conference on Smart Technologies for Smart Nation (SmartTechCon) in **January, 2024** pp. 405-409.
- L. M. Merlin Livingston, Elangovan Guruva Reddy, K S Rajesh, M. Muthulekshmi, E. N. Ganesh, Assistant professor, Department of EEE presented a paper titled “[Fuzzy Logic Controlled Photovoltaic system with IoT Technology](#)” in 2023 Second International Conference on Smart Technologies for Smart Nation (SmartTechCon) in **January, 2024** pp. 928-933.
- Mr. Dasari Ashok, Assistant Professor, Department of Computer Science & Technology presented a paper titled “[Leveraging CNN and LSTM for Identifying Citrus Leaf Disorders](#)”, in Proceedings of the Second International Conference on Automation, Computing and Renewable Systems (ICACRS-2023) IEEE Explore in **January 2024**. [ISBN: 979-8-3503-4023-5](#).
- Mr. Karthikram A, Department of CSE- Cyber security presented a paper titled “[Investigation of Endorsement Guideline Protocol Actuality Problem Using Blowfish AES Algorithm](#)” in INCOFT International Conference on Futuristic Technologies in **February 2024** doi: [10.1109/INCOFT60753.2023.10425489](#).
- Dr. S.V.S Ganga Devi, Department of CSE- Cyber security presented a paper titled “[IoT-driven automatic vehicle accident rescue system implemented with Proteus](#)” in INCOFT International Conference on Futuristic Technologies in **February 2024** doi: [10.1109/IOCTL59758.2023.10435294](#).
- K Hemalatha, Department of CSE- Artificial Intelligence presented a paper titled “[IOT-Driven Automatic Vehicle accident rescue system implemented with proteus](#)” in ICOTL 2023, IEEE Xplorer in **February 2024** doi: [10.1109/ICOTL59758.2023.10435294](#).
- E Sandhya, Department of CSE- Artificial Intelligence presented a paper titled “[Deep Learning Model for Intrusion Detection in SDN Networks](#)” in ICOTL 2023, IEEE Xplorer in **February 2024** doi: [10.1109/ICOTL59758.2023.10435198](#).
- E Sandhya, Department of CSE- Artificial Intelligence presented a paper titled “[Intrusion Detection System for IoT Networks](#)” in ICOTL 2023, IEEE Xplorer in **February 2024** doi: [10.1109/ICOTL59758.2023.10435271](#).
- E Sandhya, Department of CSE- Artificial Intelligence presented a paper titled “[INTRUSION DETECTION USING HRO WITH ENSEMBLE LEARNING](#)” ICOTL 2023, IEEE Xplorer Xplorer in **February 2024** doi: [10.1109/ICOTL59758.2023.10435237](#).
- P. Kiran, Department of CSE- Artificial Intelligence presented a paper titled, “[Leveraging Deep Belief Networks and Multi-Class Support Machine for Nutritional Deficiency Identification in Grape Plant Leaves](#)” in ICECA 2023 - IEEE Xplore in **February 2024** doi: [10.1109/ICECA58529.2023.10395807](#).



## Conference Papers

- A V. Pavan Kumar, Department of EEE presented a paper titled “An Investigation of Fault Detection in Electrical Distribution Systems Using Deep Neural Networks” in International Conference on Electric Power and Renewable Energy in **February 2024**.
- V. Pavan Kumar, C. Kamal Basha and C. Srinivas, Department of EEE presented a paper titled “Electric Vehicles Battery Management Device– Opportunities and Implications” in 2023 International Conference on Emerging Research in Computational Science (ICERCS) in **February 2024**.
- 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 IEEE-Explorer in **February 2024** doi: [10.1109/ICOTL59758.2023.10435308](https://doi.org/10.1109/ICOTL59758.2023.10435308).
- Dr. N. Magesh kumar, Department of Computer Science & Technology presented a paper titled “Wireless Sensor Networks Consistent and Honest Routing Scheme”, IEEE Conference in **February 2024** (Scopus Indexed).
- Dr. D. Pradeep Kumar, Mr. 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) in **March 2024**.
- Mr. Sreekanth, Department of Management Studies 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) in **March 2024**.
- Rakesh N. Tiwari, Department of ECE presented a paper titled “Triple-Band Gap Coupled  $4 \times 4$  MIMO Antenna in mm-Wave for High Data Rate and IoT Applications” in Lecture Notes in Electrical Engineering in **March 2024** doi: [10.1007/978-981-99-8646-0\\_39](https://doi.org/10.1007/978-981-99-8646-0_39).
- J. Nagaraj, Department of CSE presented a paper titled “Enhancing Intelligent Video Surveillance: Deep Learning Approaches for Human Anomalous Behavior Recognition” in Lecture Notes in Networks and Systems in **March 2024** doi: [10.1007/978-981-99-9524-0\\_7](https://doi.org/10.1007/978-981-99-9524-0_7).
- Sathish, K, Department of CSE presented a paper titled “Implementation and deployment of the integration of IoT devices in the development of GIS in the cloud platform” in Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023 in **March 2024** doi: [10.1201/9781032684994-13](https://doi.org/10.1201/9781032684994-13).
- K. Lokeshwaran, Department of CSE-Data Science presented a paper titled “Analysis of android malware detection using machine learning techniques” in AIP Conference Proceedings in **March 2024** doi: [10.1063/5.0199036](https://doi.org/10.1063/5.0199036).
- Rajesh K S, Department of EEE presented a paper titled “Robotic 3D Printing for Customized Industrial Components: IoT and AI-Enabled Innovation” in Proceedings of the 14th International Conference on Cloud Computing, Data Science and Engineering, Confluence 2024 in **April 2024** doi: [10.1109/Confluence60223.2024.10463472](https://doi.org/10.1109/Confluence60223.2024.10463472).
- Devashish; R Sasi Kumar; S Shameevulla, Department of ECE presented a paper titled “Novel Fuzzy PID Control Tuning for a Chemical Process Control System” in 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2024 in **April 2024** doi: [10.1109/SCEECS61402.2024.10482346](https://doi.org/10.1109/SCEECS61402.2024.10482346).



## Conference Papers

- V. Naveen, Department of CST presented a paper titled “Enhanced Visuals through Software-Optimized Memory Pipeline” in 2024 2nd International Conference on Computer, Communication and Control, IC4 2024 in April 2024 doi: [10.1109/IC457434.2024.10486698](https://doi.org/10.1109/IC457434.2024.10486698).
- D. Jaganathan, Department of CSE-Artificial Intelligence presented a paper titled “MLIDS: Revolutionizing of IoT based Digital Security Mechanism with Machine Learning Assisted Intrusion Detection System” in 2024 International Conference on Automation and Computation, AUTOCOM 2024 in April 2024 doi: [10.1109/AUTOCOM60220.2024.10486179](https://doi.org/10.1109/AUTOCOM60220.2024.10486179).
- Veeraiyah Thangasamy, Department of EEE presented a paper titled “Comparator Based Envelope Tracking for RF PA Using FinFET” in 2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2024, in May 2024 doi: [10.1109/ICRITO61523.2024.10522338](https://doi.org/10.1109/ICRITO61523.2024.10522338).
- K. ArulKumar; R. Gowthami; Venkata Pavan Kumar Arapirala; P. Ramanathan, Department of EEE & Department of ECE presented a paper titled “Estimating Lithium-Ion Battery State of Health with Least Squares Approach for Accurate Assessment” in 2nd International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE 2024 in May 2024 doi: [10.1109/ic-ETITE58242.2024.10493768](https://doi.org/10.1109/ic-ETITE58242.2024.10493768).
- G. Muthugurunathan, Department of CSE presented a paper titled “Smart Conversations: Enhancing User Engagement through NLP in IoT Environments” in 2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2024 in May 2024 doi: [10.1109/ICRITO61523.2024.10522332](https://doi.org/10.1109/ICRITO61523.2024.10522332).
- G Vasundhara Devi, Department of CSE presented a paper titled “Cloud Computing Based Medical Activity Supporting System” in 2024 2nd International Conference on Disruptive Technologies, ICDT 2024 in May 2024 doi: [10.1109/ICDT61202.2024.10489245](https://doi.org/10.1109/ICDT61202.2024.10489245).
- J Viswanath, Department of CSE-Artificial Intelligence presented a paper titled “Ensemble Techniques for the Prediction of Heart Disease with Reduced Entropy” in 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2024 in May 2024 doi: [10.1109/IATMSI60426.2024.10503147](https://doi.org/10.1109/IATMSI60426.2024.10503147).
- Manjula Prabakaran, Department of CSE-Data Science presented a paper titled “An IoT and Random Forest-DT-Based Early Enhanced Forest Fire Detection in Large and Small Targets” in 2024 3rd International Conference for Innovation in Technology, INOCON 2024 in May 2024 doi: [10.1109/INOCON60754.2024.10512064](https://doi.org/10.1109/INOCON60754.2024.10512064).
- S. Kusuma; S. Gopala Krishnan; Kasala Samreen; Macha Venkata Ramana; Gaddam Siva Prasad, Department of CSE-Data Science presented a paper titled “A Hybrid Deep Learning Approach for Early Detection and Classification of Lung Cancer Using the Pelican Optimization Algorithm” in International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 in May 2024 doi: [10.1109/ICDCOT61034.2024.10515355](https://doi.org/10.1109/ICDCOT61034.2024.10515355).
- V. G. Murugan, Department of Management Studies published a conference titled “Predictive Model for Risk Assessment in Share Market Using AI in Finance” in International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 in May 2024 doi: [10.1109/ICDCOT61034.2024.10515683](https://doi.org/10.1109/ICDCOT61034.2024.10515683).



## Conference Papers

- N. Komal Kumar; A. Kalyan Kumar; G. Thorani; L. Sahithi; P. Pujitha, Department of CSE-Data Science presented a paper titled “Improving Cardiovascular Disease Prediction: Machine Learning and Cross-Fold Validation” in 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2024 in **May 2024** doi: [10.1109/IATMSI60426.2024.10503072](https://doi.org/10.1109/IATMSI60426.2024.10503072).
- Prabhakaran, Department of Computer Applications presented a paper titled “Addressing Mobility Based RPL Routing for Low Power Lossy Networks in IoV Networks” in 2nd International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE 2024 in **May 2024** doi: [10.1109/ic-ETITE58242.2024.10493629](https://doi.org/10.1109/ic-ETITE58242.2024.10493629).
- Althaf Ali, Department of Computer Applications presented a paper titled “Performance Analysis of the Machine Learning Algorithms for the Early Detection of Breast Carcinoma” in 2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2024 in **May 2024** doi: [10.1109/IATMSI60426.2024.10503434](https://doi.org/10.1109/IATMSI60426.2024.10503434).
- P Lakshmiramana, Department of CST presented a paper titled “Hybrid of Ant Colony and Artificial Bee Colony Optimization for Resource Allocation in Cognitive Radio Networks” in International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 in **May 2024** doi: [10.1109/ICDCOT61034.2024.10516257](https://doi.org/10.1109/ICDCOT61034.2024.10516257).
- K. Lakshmi Khandan, Department of EEE presented a paper titled “Deep Learning Approach for Predicting Output Current Ripple in Electric Vehicle Chargers” in 7th International Conference on Inventive Computation Technologies, ICICT 2024 in **June 2024** doi: [10.1109/ICICT60155.2024.10544866](https://doi.org/10.1109/ICICT60155.2024.10544866).
- K. Sathesh; P Kowsalya; E. Aravindraj, Department of ECE presented a paper titled “Design and Implementation of Multi-Band Honeycomb Fractal Antenna for 5G Applications” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543430](https://doi.org/10.1109/ICCSP60870.2024.10543430).
- Karthick, Department of ECE presented a paper titled “Deep Capsule Networks for Accurate Microaneurysm Detection and Classification in Retinal Images” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10544338](https://doi.org/10.1109/ICCSP60870.2024.10544338).
- Dhruva Jyoti Bora; Eediga Sravani; Karamala Tharun; Kolla Sushma, Department of ECE presented a paper titled “Lung Cancer Recognition using CNN Algorithm and MATLAB” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10544180](https://doi.org/10.1109/ICCSP60870.2024.10544180).
- G. Kavya; P. Mokshitha; Y. Hasanthi; B. Karthick; R. Arivarasu, Department of ECE presented a paper titled “A (2X2) Microstrip Patch Antenna with Reduced Mutual Coupling Using CSRR” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543330](https://doi.org/10.1109/ICCSP60870.2024.10543330).
- M Kamesh; Somandapalli Karanam Ganesh; Godina Ganga Kushal; Konduru Sai, Department of ECE presented a paper titled “Design a Quarter-wave monopole antenna specifically designed for Wireless internet applications at 2.4 GHz” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543487](https://doi.org/10.1109/ICCSP60870.2024.10543487).



## Conference Papers

- V. S Prasanth; M Munikumar; Maddigiri Ganesh; Gulimi Ranjith Kumar, Department of ECE presented a paper titled “Chaotic Technique for High Information Security based on Dual-Hiding Asynchronous-Logic AES Accelerator with High Resistance to Prevent Side-Channel Attacks” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543679](https://doi.org/10.1109/ICCSP60870.2024.10543679).
- K. Sathesh; P Kowsalya; E. Aravindraj; S.Guru Naveen Reddy; K. Anvith Sai Varma; P. Ganesh, Department of ECE presented a paper titled “Clearer HeartBeats: Enhancement of cardiac sounds using Adaptive Filtering and Wavelet Decomposition” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543921](https://doi.org/10.1109/ICCSP60870.2024.10543921).
- K. Sathesh; P Kowsalya; E. Aravindraj; Sreesailam Phani Tej; Shaik Mahammed; Nandyala Manikanteswar Reddy, Department of ECE presented a paper titled “Integrated Smart Trolley System: Arduino Nano-Based RFID Billing and Weight Sensor Augmentation” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10544371](https://doi.org/10.1109/ICCSP60870.2024.10544371).
- Subbarao Genikala, Department of ECE presented a paper titled “A Power-Aware Algorithm for Mobile Devices Focused on Batteries” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10544227](https://doi.org/10.1109/ICCSP60870.2024.10544227).
- M. Kamesh; Kasa Vishnu Sai; L.Sai Venkata Krishna; Shaik Ahamed Basha, Department of ECE presented a paper titled “Design and Compare Microstrip Patch Antenna for 5G Wireless Communication Systems Using K-Ka Band” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543878](https://doi.org/10.1109/ICCSP60870.2024.10543878).
- V.S Prasanth; P. Likhitha; K. Rahul Chowdary; P. Manohar; A Parveen Akhther, Department of ECE presented a paper titled “A Novel Approach to Cloud Load Balancing Using Advanced Migration Operator” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543229](https://doi.org/10.1109/ICCSP60870.2024.10543229).
- M Kamesh; Somandapalli Karanam Ganesh; Godina Ganga Kushal; Konduru Sai, Department of ECE presented a paper titled “Design a Quarter-wave monopole antenna specifically designed for Wireless internet applications at 2.4 GHz” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543487](https://doi.org/10.1109/ICCSP60870.2024.10543487).
- R. Nidhya; K. Imabee; M. Geethanjali; M. Lakshmi Anusha; I. Vyshnavi, Department of CSE presented a paper titled “Real Time Medicinal Plant Identification & Classification Using Random Forest Algorithm” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543388](https://doi.org/10.1109/ICCSP60870.2024.10543388).
- M. Bommy; M.Anjaneya Reddy; T. Balaji; T. Devesh; D.Dilip Kumar Reddy, Department of CSE presented a paper titled “Revolutionizing Presence Management with Facial Recognition” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in **June 2024** doi: [10.1109/ICCSP60870.2024.10543474](https://doi.org/10.1109/ICCSP60870.2024.10543474).



## Conference Papers

- R Nidhya; D J Ashpin Pabi; U. DivyaSree; B. Abhishek; A. Harika; S. Abdul Alim, Department of CSE presented a paper titled “Exploring Facial Recognition Technologies for Classroom Management” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10544143](https://doi.org/10.1109/ICCSP60870.2024.10544143)
- R Kalpana; D Deepika; A Kavya; P Himabindhu; S Kethavi, Department of CSE presented a paper titled “Facial Age and Gender Prediction using Deep Learning” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10543983](https://doi.org/10.1109/ICCSP60870.2024.10543983).
- Puneeth Gangarapu, Nitish Sine & Vamsi Bandi, Department of CSE presented a paper titled “A Stroke Complication Neural Network Model to Predict the Severity of Brain Stroke Using Family History” in Springer Proceedings in Mathematics and Statistics in June 2024 doi: [10.1007/978-3-031-51167-7\\_79](https://doi.org/10.1007/978-3-031-51167-7_79).
- Nidhya R, Department of CSE presented a paper titled “Intense Triad Defender for End-User Security in Cyber Physical System” in Proceedings of the 2nd IEEE International Conference on Networking and Communications 2024, ICNWC 2024 in June 2024 doi: [10.1109/ICNWC60771.2024.10537533](https://doi.org/10.1109/ICNWC60771.2024.10537533).
- Serin V Simpson; Nimmanapalle Ruhin Taj; Ganjikunta Reddy Deepika; Paladi Shreya; K Swathi, Department of CST presented a paper titled “Detection and Classification of Pneumonia in Chest X-ray Images using Deep Learning Techniques” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10543633](https://doi.org/10.1109/ICCSP60870.2024.10543633).
- Serin V Simpson; Madhu Sree Sane; Madan Mohan Singiri; Mahesh Settipalli; Lavan Kumar Dama, Department of CST presented a paper titled “New Analytic Framework of Public Mental Health Prediction Using Data Science” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10543555](https://doi.org/10.1109/ICCSP60870.2024.10543555).
- Serin V Simpson; Bhanu Prakash Gatti; Sandeep Setty; Anusha Papepalli; Balakrishna Sompalle, Department of CST presented a paper titled “Intelligent URL Analysis for Phishing Threads” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10543918](https://doi.org/10.1109/ICCSP60870.2024.10543918).
- Serin V Simpson, Department of CST presented a paper titled “An IoT-based Deep Belief Network in Intrusion Detection System using Butterfly Optimization” in Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024 in June 2024 doi: [10.1109/ICCSP60870.2024.10543781](https://doi.org/10.1109/ICCSP60870.2024.10543781).
- Yallapragada Ravi Raju, Department of CST presented a paper titled “Optimization of Natural Language Processing Models for Multilingual Legal Document Analysis” in 2024 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing, INCOS 2024 – Proceedings in June 2024 doi: [10.1109/INCOS59338.2024.10527598](https://doi.org/10.1109/INCOS59338.2024.10527598).
- Bandi Vamsi, Department of CSE-Artificial Intelligence presented a paper titled “Prediction of Rice Leaf Diseases at an Early Stage Using Deep Neural Networks” in Springer Proceedings in Mathematics and Statistics in June 2024 doi: [10.1007/978-3-031-51167-7\\_6](https://doi.org/10.1007/978-3-031-51167-7_6)

## Book Chapters published

- Bandi Vamsi, Department of CSE-Artificial Intelligence published an article titled “A Detailed Case Study on Various Challenges in Vehicular Networks for Smart Traffic Control System Using Machine Learning Algorithms” in Artificial Intelligence and Machine Learning for Smart Community: Concepts and Applications in **February 2024**. doi: [10.1201/9781003409502-3](https://doi.org/10.1201/9781003409502-3).
- Manikandan, K.P, Department of CSE- Cyber security published an article titled “Industry 5.0 based on Hybrid and Nonlinear Systems in Robustness” in International Journal of Intelligent Systems and Applications in Engineering in **February 2024**. Doi: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85185267233&partnerID=40&md5=c9dc0c23d766c1533c89f3dd152453e0>
- Dr. Shanthi S Department of Computer Science & Technology published an article titled “Intelligent Iot-Based Control System For Optimizing Manufacturing Processes” in **February 2024**.
- G. Arunkumar, Department of Computer Science & Engineering published an article on “Detecting healthcare issues using a neuro-fuzzy classifier” in Advances in Fuzzy-Based Internet of Medical Things (IoMT) in **April 2024**. doi: [10.1002/9781394242252.ch4](https://doi.org/10.1002/9781394242252.ch4).
- G. Arunkumar, Department of Computer Science & Engineering published an article on “Management of trust between patient and IoT using fuzzy logic theory” in Advances in Fuzzy-Based Internet of Medical Things (IoMT) in **April 2024**. doi: [10.1002/9781394242252.ch6](https://doi.org/10.1002/9781394242252.ch6).
- Manikandan, K. P, Department of CSE- Cyber Security Engineering published an article on “Strengthening security, privacy, and trust in artificial intelligence drones for smart cities” in Analyzing and Mitigating Security Risks in Cloud Computing in **April 2024**. doi: [10.4018/979-8-3693-3249-8.ch011](https://doi.org/10.4018/979-8-3693-3249-8.ch011).
- R. Maruthamuthu, N. Naveenkumar, Department of Computer Applications published an article on “Optimization of effectual sentiment analysis in film reviews using machine learning techniques” in Computational Intelligence Methods for Sentiment Analysis in Natural Language Processing Applications in **April 2024**. doi: [10.1016/B978-0-443-22009-8.00003-3](https://doi.org/10.1016/B978-0-443-22009-8.00003-3).





## Book Chapters published

- Ramakrishna Gandhi, Department of Computer Science & Engineering published an article on “Navigating green computing challenges and strategies for sustainable solutions” in Computational Intelligence for Green Cloud Computing and Digital Waste Management in **April 2024**. doi: [10.4018/979-8-3693-1552-1.ch003](https://doi.org/10.4018/979-8-3693-1552-1.ch003).
- G. Arunkumar, Department of Computer Science & Engineering published an article on “Development of the fuzzy logic system for monitoring of patient health” in Advances in Fuzzy-Based Internet of Medical Things (IoMT) in **April 2024**. doi: [10.1002/9781394242252.ch5](https://doi.org/10.1002/9781394242252.ch5).
- Dr. Dipankar Roy, Department of Civil Engineering published an article on “Entropy-weighted-multi-criteria decision-making (E-MCDM) approach for erosion area prioritization case study of a Himalayan River Basin” in Agri-Tech Approaches for Nutrients and Irrigation Water Management in **May 2024**. doi: [10.1201/9781003441175-10](https://doi.org/10.1201/9781003441175-10).
- Mutharasu, M, Department of Computer Science & Engineering published an article on “Synergizing federated learning and in-memory computing: An experimental approach for drone integration” in Developments Towards Next Generation Intelligent Systems for Sustainable Development in **May 2024**. doi: [10.4018/979-8-3693-5643-2.ch004](https://doi.org/10.4018/979-8-3693-5643-2.ch004).
- K. Sudhakar, Department of Computer Science & Engineering published an article on “Age of Computational AI for Autonomous Vehicles” in Artificial Intelligence for Autonomous Vehicles in **May 2024**. doi: [10.1002/9781119847656.ch2](https://doi.org/10.1002/9781119847656.ch2).
- Rajaram, R, Department of Chemistry published an article on “Non-Noble Metal Catalysts in Oxygen Reduction Reaction” in Nano-electrocatalyst for Oxygen Reduction Reaction: Fundamentals to Field Applications in **May 2024**. doi: [10.1201/9781003334903-11](https://doi.org/10.1201/9781003334903-11).
- Dr. K. S. Krishna, Department of Management Studies published an article on “Lightweight Digital Trust Architectures in the Internet of Medical Things” in IGI-Global in **May 2024**. pg. no: 52-72 ISBN: [9798369321096](https://www.isbn-international.org/product/9798369321096).
- Dr. Dipankar Roy, Professor, Department of Civil Engineering published an article on “Entropy-Weighted Multi-Criteria Decision Making (E-MCDM) Approach for Erosion Area Prioritization Case Study of a Himalayan River Basin” in Agri-Tech Approaches for Nutrients and Irrigation Water Management in **June 2024**. doi: <https://doi.org/10.1201/9781003441175-10>.
- K. Srinivasa Krishna, Department of Management Studies published an article on “Optimizing trust and security in healthcare 4.0: Human factors in lightweight secured IoMT ecosystems” in Lightweight Digital Trust Architectures in the Internet of Medical Things (IoMT) in **June 2024**. doi: [10.4018/979-8-3693-2109-6.ch004](https://doi.org/10.4018/979-8-3693-2109-6.ch004).
- R. Sundar, Department of Computer Science & Engineering published an article on “Achieving balance between innovation and security in the cloud with artificial intelligence of things: Semantic web control models” in Semantic Web Technologies and Applications in Artificial Intelligence of Things in **June 2024**. doi: [10.4018/9798369314876.ch001](https://doi.org/10.4018/9798369314876.ch001).
- K. Lokeshwaran, Department of Computer Science & Engineering- Data Science published an article on “AI-driven energy forecasting, optimization, and demand side management for consumer engagement” in Intelligent Solutions for Sustainable Power Grids in **June 2024**. doi: [10.4018/979-8-3693-3735-6.ch006](https://doi.org/10.4018/979-8-3693-3735-6.ch006).





## Patents published

- Dr. Priyam Nath Bhowmik, Department of Civil Engineering published a patent on “Hybrid Power Generations by using road speed Breakers” on **02-02-2024**.
- E. Aravindraj, Syed Mubin Taz, Nafeesa Annu, Syed Nasriya, Kowsalya P, T. Manivannan, K. Ayyappan, Department of ECE published patent on “Trident Tree Fractal Embedded Hexagonal Printed Monopole Antenna” on **02-02-2024** [Patent No: 202441003740](#).
- Dr. K. Shaheen, Dr. Rajeev Kumar Sharma, Mr. V Moses Jayakumar, Dr. Bathula Srihari Rao, Dr. Mohini Rajendra Gurav, Dr. V. R. Yasu Bharathi, Dr. C. Tharini, Dr. J. Moushumi, Ms. S. Nithyasri, Dr. P. Basheer Khan, Mr. R. Manoj Kumar, Dr. Barkha Saxena, Department of English & Foreign Languages published a patent on “Significance Of English Language For Business Growth And Development In India” on **09-02-2024** [Patent No: 202441000909](#).
- Mrs. R. Roopa, Department of CSE-Data Science published a patent on “System and Method for Tracking and Managing Chronic Diseases using IoT and Machine Learning” on **01.03.2024** [Patent No: 202441006903](#).
- Mrs. M. Nandhini, Department of CSE-Data Science published a patent on “Patient Monitoring Device” on **01.03.2024** [Patent No: 6345921](#).
- Mrs. Manjula Prabakaran, Department of CSE-Data Science published a patent on “Analysing the Role of Machine Learning for Driving the Future of Autonomous Vehicles” on **08.03.2024** [Patent No: 202441014907A](#).
- Dr. SRINIVASAN JAGANNATHAN, Department of MCA published a patent on “Sun Glasses for the Visually Impaired” on **18.03.2024** [Patent No: 6351733](#).
- Dr. S. ELANGO, Department of CSE published a patent on “AUTOMATED HOME CONTROL DEVICE” on **22.03.2024** [Patent No: 389956-001](#).
- Mr. N. Komal Kumar, Department of CSE-Data Science published a patent on “Method and System for Task Scheduling in a Cloud-Fog Network Operating in Space via Computing Offloading” on **03.05.2024** [Patent No:202441034120](#).
- Dr. K. Shaheen, Department of English & Foreign Languages published a patent on “Analysis of the Importance of English Language in the Success of E-Commerce” on **03.05.2024** [Patent No: 202441031590](#).
- Dr. K. Lakshmi Devi, Department of English & Foreign Languages published a patent on “Artificial Intelligence based Detection and Prevention of Thyroid Disease on Hormone Level for all ages of People using IoT and Machine Learning for Smart Health Care Management System” on **03.05.2024** [Patent No: 202441032686](#).
- Dr. K. Shaheen and Dr. G. Hemalatha, Department of English & Foreign Languages published a patent on “AI-Based English Language Learning” on **03.05.2024** [Patent No: 407764-001](#).



## Projects Sanctioned

### RESEARCH PROJECTS(SANCTIONED):

Name of the faculty (PI)	Department	Project title	Funding agency	Sanctioned Month & Year	Amount sanctioned	Present Status Sanctioned / Ongoing / Completed
MITS	Institute	MITS-IPFC Center	MSME	Mar-24	1,00,00,000.00	Ongoing
PI: S.Vyshnavi Mentor: ANANDH NAGARAJAN	CSE-AI	Face Shield Next-Generation Facial Recognition Security System	MSME	Mar-24	9,50,000.00	Ongoing
PI: Bandi Thrisha Mentor: N. Mohana Priya	CSE-AI	BirdScan	MSME	Mar-24	8,00,000.00	Ongoing
PI: Kalpana A Mentor: Karthikram A	CSE-CS	AI based scanning system to scan luggages - VEGA	MSME	Mar-24	10,00,000.00	Ongoing
PI: Nikitha T Mentor: Dr. S. V. S Ganga Devi	CSE-CS	A comprehensive legal assistance application designed to address a wide range of legal challenges with efficiency and expertise. - DHARMA	MSME	Mar-24	9,00,000.00	Ongoing
PI: S PADMAVATHI Mentor: S.Reddi Lakshman	MEC	Design and Fabrication of Thermoelectric Refrigeration System to Extend the Shelf Life of Mushrooms	MSME	Mar-24	10,00,000.00	Ongoing

## NSS Activities/Community Service Programs

- The NSS Cell-MITS, in association with Eenadu and ETV Andhra Pradesh, conducted a "Vote Enrolment Awareness Program" on **09.01.2024**.



- A "Blood Donation Camp" was organized by the NSS Cell-MITS in collaboration with The Lions Club, Madanapalle, on **23.01.2024**.



- The NSS Cell-MITS, in association with The Lions Club, Madanapalle, and Lions Eye Hospital, Madanapalle, conducted a "Free Eye Check-up Camp" on **23.01.2024**.



- A program on "National Voters Day" was conducted by the NSS Cell-MITS in association with the Revenue Department, Kurabalakota, Andhra Pradesh, on **25.01.2024**, to encourage youth participation in the electoral process.
- The NSS Cell-MITS, in association with the Physical Education Department, MITS, organized an event to celebrate the "75th Republic Day" on **26.01.2024**.

- The MCA Department organized a program at "Velugu Free Home for Orphans and Senior Citizens" on **04.02.2024**.

- "National Science Day" was organized by the NSS Cell-MITS in association with the Department of Physics on **28.02.2024**.

- A six-day "NSS Special Camp" was conducted from **01.03.2024** to **07.03.2024**.



- The NSS Cell-MITS conducted an awareness program on "Mera Pehla Vote Desh Ke Liye" on **11.03.2024**.

- An awareness program on "SVEEP Awareness" was organized by MITS on **06.04.2024**, to promote voter enrolment and the use of the C-Vigil app and other facilities provided by the Election Commission of India.



- The NSS Cell organized "Ambedkar Jayanthi" at MITS on **14.04.2024**.

- A "Blood Donation Camp" was organized by the NSS Cell-MITS in collaboration with the Rotary Club, Madanapalle, and the Indian Red Cross Society, Bangalore, on **22.04.2024**.

## NSS Activities/Community Service Programs

- Another "SVEEP Awareness Program" was conducted by NSS, MITS, in association with the Election Commission of India, on **04.05.2024**.



- A two-day training program titled "Master Trainers on My Bharat Portal & Digital Literacy" was held at MITS from **30.05.2024** to **31.05.2024**, sponsored by the Ministry of Youth Affairs & Sports and the Regional Directorate of NSS, in association with the NSS unit at MITS.



- The NSS-MITS organized an event on "World No Tobacco Day" on **31.05.2024**.
- A "Blood Donation Camp" was organized by the NSS Unit-MITS in collaboration with the NTR Trust Blood Bank, Tirupati, on **20.06.2024**.



- A "Free Eye Check-up Camp" was conducted by the NSS Unit-MITS in association with Dr. Agarwal's Eye Hospital, Madanapalle, on **27.06.2024**.

