

# Madanapalle Institute of Technology & Science

(UGC Autonomus Institution)

Angallu (V), Madanapalle-517325  
Annamayya District, Andhra Pradesh, India



## NEWSLETTER

Issue -2

January - June 2023





## Vision

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

## Mission

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

### 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 – 517325  
Annamayya District, Andhra Pradesh,  
India

### Editorial Team:

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

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

#### **Students Coordinators:**

Mr. Arshad – II Year (MBA)  
Mr. Rakesh Kumar – II Year (MBA)  
Mr. Uma Mahesh – II Year (MBA)

## Content

|   |       |
|---|-------|
| Message from Principal                          | 1     |
| Message from Vice Principal<br>(Administration) | 1     |
| About MITS                                      | 2     |
| Guest Lectures                                  | 3-4   |
| Faculty Development Programs                    | 5     |
| Workshops/Seminars                              | 6     |
| Webinars/Conference                             | 7     |
| Industrial visits                               | 8     |
| Symposiums                                      | 9     |
| Events  | 10-11 |
| Achievements                                    | 11-12 |
| Paper Publications                              | 13-20 |
| Conference Papers                               | 20-26 |
| Book Chapters Published                         | 26-27 |
| Patents Published                               | 27-28 |
| Projects Sanctioned                             | 28    |
| NSS Activities/Community<br>Service Programs    | 29-30 |





## Message from Principal

It gives me great pleasure to extend warm greetings to everyone through the bi-annual newsletter of Madanapalle Institute of Technology & Science (MITS). This newsletter serves as a conduit of communication, bridging the gap between our institution and its stakeholders. As the Principal of MITS, I believe in the power of effective communication to foster a sense of community and unity among us. Through this newsletter, we aim to highlight the achievements, initiatives, and developments within our college community.



It serves as a platform to celebrate the successes of our students, acknowledge the dedication of our faculty, and showcase the strides we are making towards academic excellence and holistic development. I encourage all of you to actively engage with the content of this newsletter, as it reflects the collective efforts and aspirations of our MITS family. Let us continue to work together, inspire one another, and propel our institution towards greater heights of success and innovation.

**Dr. C. Yuvaraj**

Principal, Madanapalle Institute of Technology & Science.

## Message from Vice Principal (Administration)

In this issue of the bi-annual newsletter, we are thrilled to showcase the vibrancy and dynamism of our college community. From academic achievements to extracurricular triumphs, this newsletter encapsulates the essence of our collective journey towards excellence. As we navigate through the times, it is heartening to witness the resilience and determination of our students, faculty, and staff.



Together, we continue to uphold the values of innovation, collaboration, and integrity that define MITS. I invite you to immerse yourself in the achievements shared within these pages, and to join us in celebrating the spirit of MITS.

**Dr. C. Kamal Basha,**

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



## About MITS

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

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

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



Industrial Block



## Guest Lectures

- A One Day Guest Lecture on “**Artificial Intelligence & Machine Learning**” was organized by the Department of Computer Science & Engineering on **05.01.2023**.
- A One Day Guest Lecture on “**Linux and Databases**”, was organized by the Department of Computer Science & Technology on **07.01.2023**.
- A One Day Guest Lecture on “**Technical Aspects of Community Radio Station**”, was organized by the Department of Electronics and Communication Engineering on **10.01.2023**.
- A One Day Guest Lecture on “**Insights of tasks in Data Science and AI**”, was organized by the Department of Artificial Intelligence & Data Science on **02.02.2023**.
- A One Day Guest Lecture on “**Artificial Intelligence in Health Care**”, was organized by the Department of Computer Science & Engineering on **08.02.2023**.
- A One Day Guest Lecture on “**Career Development Interaction**”, was organized by Alumni Relation Office, MITS on **27.02.2023**.
- A One Day Guest Lecture on “**Power Quality Events Monitoring System Using Signal Processing Techniques on an Embedded Platform**” was organized by the Department of Electrical and Electronics Engineering in association with IEEE & ISTE Chapter on **04.03.2023**
- A One Day Guest Lecture on “**Multi-disciplinary Research**”, was organized by the Department of Computer Science & Technology on **06.03.2023**



- A One Day Guest Lecture on “**Machine Learning & its applications**”, was organized by the Department of Computer Science & Technology on **16.02.2023**.
- A One Day Guest Lecture on “**AWS based Cloud Computing**”, was organized by the Department of Computer Science & Technology on **22.02.2023**.
- A One Day Guest Lecture on “**Intelligent Question Answering System with NLP**”, was organized by Department of Computer
- A One Day Guest Lecture on “**Driver Behavior Modelling for Autonomous Vehicle**” was organized by the Department of Electrical and Electronics Engineering in association with IEEE & ISTE Chapter on **07.03.2023**
- A One Day Guest Lecture on “**Cutting Edge Technology on Cloud Computing**”, was organized by the Department of Computer Science and Engineering in association with IEEE on **18.03.2023**.
- A One Day Guest Lecture on “**MEMS Based Biomedical Sensors an Introduction**” was organized by the Department of Electronics and Communication Engineering in association with MITS IEEE Student Branch on **21.03.2023**.

## Guest Lectures

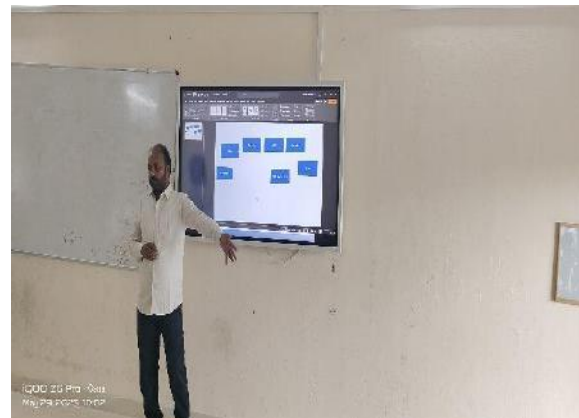
- A One Day Guest Lecture on **“Communication Skills for Career Building”** was organized by the Department of English & Foreign Languages on **31.03.2023**.



- A One Day Guest Lecture on **“Satellite Image Processing - Research Aspects”**, was organized by the Department of Computer Science and Engineering on **04.04.2023**.
- A One Day Guest Lecture on **“Career Opportunities”**, was organized by the Department of Civil Engineering on **04.04.2023**.
- A One Day Guest Lecture on **“Scope of Engineering Graduates as Techno-Managers”**, was organized by the Department of Civil Engineering on **17.04.2023**.



- A One Day Guest Lecture on **“Introduction to NLP”**, was organized by Department of Computer Science and Engineering on **28.05.2023**.
- A One Day Guest Lecture on **“Opportunities Available for Students in SAP especially in ABAP Technology”**, was organized by Department of Electrical & Electronics Engineering on **29.05.2023**.



- A One Day Guest Lecture on **“Cloud Computing and AWS DevOps”**, was organized by the Department of Computer Science and Engineering on **19.04.2023**.
- A One Day Guest Lecture on **“Big data Technologies”**, was organized by the Department of Computer Science and Engineering on **20.05.2023**.
- A One Day Guest Lecture on **“Career in Abroad Education and Job”**, was organized by the Department of Computer Science and Engineering on **25.05.2023**.

- A One Day Guest Lecture on **“Data Science Applications and Industrial Insights”**, was organized by the Department of Computer Science and Engineering on **31.05.2023**.
- A One Day Guest Lecture on **“Machine Learning and its Applications”**, was organized by the Department of Computer Science and Engineering on **05.06.2023**.
- A One Day Guest Lecture on **“Recent Advancement in Smart Grid and Renewable Energy with Modern Computational Technique”**, was organized by the Department of Computer Science and Engineering on **05.06.2023**.

## Faculty Development Programs

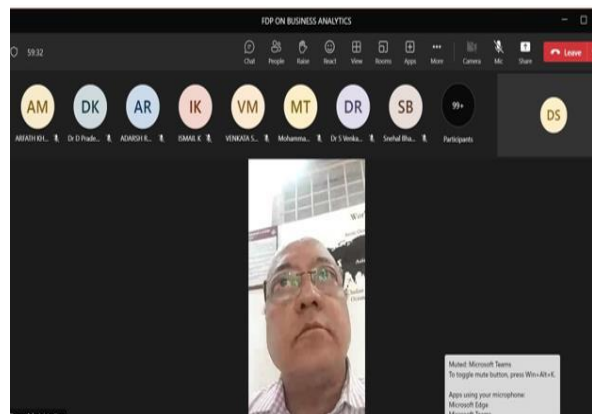
- A five-day online Faculty Development Programme on “**Emerging Trends in Machine Learning and Deep Learning Techniques**” was organized by the Department of Computer Applications. from **02.01.2023** to **06.01.2023**.
- A five-day online Faculty Development Programme on “**Microwave Passive Circuits: Design, Fabrication and Measurements (MPCDFM-2023)**” was organized by the Department of Electronics and Communication Engineering from **17.01.2023** to **21.01.2023**.
- A One Week Faculty Development Programme on “**Computational modeling of materials**”, was organized by the Department of Physics on **12.05.2023**.
- A five-day Faculty Development Programme on “**Mathematics and its Applications**” was organized by the Department of Mathematics from **05.06.2023** to **09.06.2023**.
- A One-week virtual International Faculty development program on “**Research Insights on Recent Revolutions and Evolutions in Information Technology**” was organized by the Department of Computer Science and Technology from **12.06.2023** to **17.06.2023**.



- A five-day Faculty Development Programme on “**Research paper writing, proposal drafting, and patenting Strategies**”, was organized by the Department of Computer Science and Technology from **22.05.2023** to **26.05.2023**.

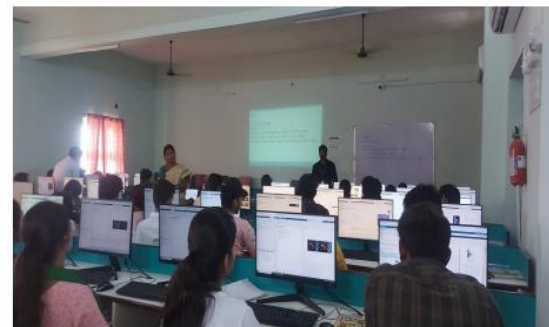
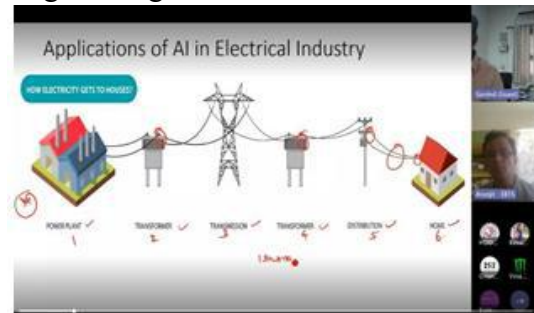


- A five-day Online Faculty Development Programme on “**Business Analytics**” was organized by the Department of Management Studies from **12.06.2023** to **16.06.2023**.



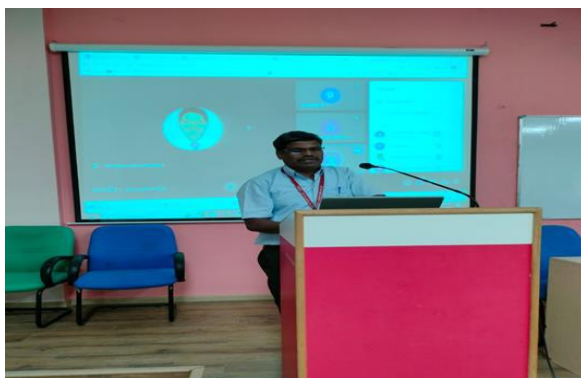
## Workshops

- A One Day Workshop on “**Achieving Problem-Solution Fit and Product-Market Fit**”, was organized by the Department of Computer Science & Engineering in association with IIC on **23.02.2023**.
- A One Day Workshop on “**How to plan for Start-up and legal & Ethical Steps**”, was organized by the Institute Innovation Council on **13.04.2023**.
- A One Day Workshop on “**Intellectual Property Rights (IPRs) and IP Management for Startup**”, was organized by the Institute Innovation Centre **20.05.2023**.
- A One Day Workshop on “**Application of Automated Machine Learning in Electrical Industry**”, was organized by the Department of Electrical & Electronics Engineering on **24.05.2023**.
- A One Day Hands on Workshop on “**Image Processing using MATLAB**”, was organized by the Department of Artificial Intelligence on **24.06.2023**.



## Seminars

- A One Day Seminar on “**Emerging Technologies in IoT and Industry 4.0**”, was organized by the Department of Computer Science & Technology on **12.01.2023**.
- A One Day Seminar on “**Innovation and Entrepreneurship**”, was organized by the Entrepreneurship Development Cell on **24.01.2023**.





## Webinars

- A One Day Webinar on “**Challenges and Opportunities in IT Sector**”, was organized by the Department of Computer Science & Technology on **09.01.2023**.



- A One Day Webinar on “**Digital Marketing Opportunities**”, was organized by the Department of Management Studies on **18.01.2023**.
- A One Day Webinar on “**Entrepreneurial Uses of AI**”, was organized by the Department of Artificial Intelligence & Data Science on **25.01.2023**.
- A One Day Webinar on “**Emanate Tendency towards Data Science**”, was organized by the Department of Computer Science & Technology on **06.02.2023**.



- A One Day Webinar on “**Data Science**”, was organized by the Department of Artificial Intelligence & Data Science on **10.02.2023**.

- A One Day Webinar on “**Entrepreneurship challenges in 21st century**”, was organized by the Department of Management Studies on **10.02.2023**.



- A One Day Webinar on “**IoT Wearable Computing**”, was organized by the Department of Computer Science & Engineering on **23.05.2023**.



## International Conference

- A two-day International Conference on “**Recent Advancements in Computing, Communication & Societal Applications**’(NASA’23), was organized by the Department of Computer Science and Engineering from **19.04.2023** to **20.04.2023**.



## Industrial Visits

- A One Day Industrial Visit to “**Gandikota Reservoir Project located between Gandikota village and Kondapur village of Kadapa district**” was organized by Department of Civil Engineering on **02.02.2023**.

- A One Day Industrial Visit to “**National Atmospheric Research Laboratory**” was organized by the Department of Computer Science and Engineering on **10.02.2023**.



- A One Day Industrial Visit to “**Krishna Raja Sagara Dam, Mysore**” was organized by Department of Civil Engineering on **12.03.2023**.

- A One Day Industrial Visit to “**Krishna Raja Sagara Dam, Mysore**” was organized by the Department of Civil Engineering on **12.03.2023**.



- A One Day Industrial Visit to “**Chandragiri Fort & Kalyani Dam, Tirupati**”, was organized by the Department of Civil Engineering on **21.05.2023**.



## Symposiums

- A One Day National Level Technical Symposium “**INVICTA – 2k23**”, was organized by the Department of Computer Science and Technology on **01.04.2023**.



- A One Day National Level Technical Symposium “**ECLECTICA**” was organized by Department of Electronics and Communication Engineering on **20.04.2023**.



- A One Day National Level Technical Symposium “**TERA – 2k23**”, was organized by Department of Electrical and Electronics Engineering on **18.04.2023**.



- A One Day National Level Technical Symposium “**Mechonance’23**” was organized by the Department of Mechanical Engineering on **21.04.2023**.



- A One Day National Level Technical Symposium “**RAIDS - 23**”, was organized by the Department of Artificial Intelligence and Data Science on **19.04.2023**.



- A One Day National Level Technical Symposium “**CITA 23**” was organized by the Department of Civil Engineering on **26.04.2023**.



## Events

- A Quiz program on “**Robotics**” was organized by the Department of CST on **04.01.2023**.
- The Department of CST hosted a one-day event, “**Fun with Tech,**” on **06.01.2023**.
- A one-day event “**National Youth Day**” was organized by the Department of Mechanical Engineering on **12.01.2023**.
- An Inauguration of “**MITS Civil Engineering Society**” was organized by the Department of Civil Engineering on **12.01.2023**.
- A program on “**Budget 2023**” was organized by the Department of MBA on **01.02.2023**.
- An awareness program on “**Benefits of IEEE Membership**” was organized by the Department of ECE in association with IEEE Student Branch on **01.02.2023**.
- The Department of MCA organized a meeting on “**A Student-Parent & Corporate Conclave**” on **22.02.2023**.
- The Department of Physics held a one-day event on “**Emerging Trends in Physical Science Research & National Science Day**” on **28.02.2023**.
- NCC, MITS organized a career guidance session on “**Indian Armed Forces, guiding them towards a fulfilling career of service, discipline, and honor**” on **11.04.2023**.
- A One Day Event on “**National Technology Day 2023**”, was organized by Institution’s Innovation Centre on **11.05.2023**.



- *MITS organized a two-day National Level Techno-Cultural-Sports Fest, “**Ashv - The Race of Talent-2023,**” from **12.05.2023** to **13.05.2023**. The event showcased a fusion of technology, culture, and sports. It brought together participants from across the country. The fest offered a platform for students to display their talents and skills. The event was a celebration of creativity, innovation, and sportsmanship.*



## Events

- A One Day Event on “**World Environment Day 2023**”, was organized by Institution’s Civil Engineering Society on **05.06.2023**.
- A One Day Event on “**World MSME Day 2023**”, was organized by Research and Development Cell in association with IIC Cell and ED Cell on **27.06.2023**.



## Achievements

- Mechanical Engineering Students offered a ray of hope for farmers with their Solar Operated Weeding Machine.
- MITS has secured AAA rating from NPTEL online certification at National Level.



## Know our legacy



Sir M. Visvesvaraya, often referred to as Sir MV, born in 1861 in Muddenahalli, Karnataka, was a prominent Indian engineer, scholar, and statesman. He is best known for his pioneering work in engineering, particularly in designing and implementing innovative irrigation and flood control systems, which bolstered agricultural productivity in India. As the Diwan of Mysore from 1912 to 1918, he spearheaded transformative infrastructure projects. Knighted in 1915, Sir MV's legacy as a visionary leader and nation-builder endures, inspiring generations.

## Achievements

- D. Aravind for outstanding performance at the "State Level Yoga Competition" held at the District Sports Authority on **07.01.2023**.



- The III B.Tech Mechanical Engineering student excelled in National Level Technical Competition by winning the first prize that was held at KSVM Engineering College on **18.01.2023**.



- B.Tech III Year ECE students developed magic called "Automatic Snake Detector" on **12.01.2023**.



- Department of Mechanical Engineering Students from MITS developed a battery-operated cycle to assist physically challenged students, by demonstrating their technical skills, creativity, and compassion for the community on **01.03.2023**.





- Biraja Prasad Mishra, Department of Civil Engineering published an article titled “Free Flexural Vibration Analysis of Thin Plates Using NURBS-Augmented Finite-Element Method” in Journal of Vibration Engineering and Technologies in **January-June 2023**. doi: [10.1007/s42417-022-00639-0](https://doi.org/10.1007/s42417-022-00639-0).
- Brijesh Kumar, Department of Civil Engineering published an article titled “Assessment of land use/land cover change impact on streamflow: a case study over upper Guder Catchment, Ethiopia” in Sustainable Water Resources Management in **January-June 2023**, doi: [10.1007/s40899-022-00783-1](https://doi.org/10.1007/s40899-022-00783-1).
- Rekha Ketham, Department of EEE published an article titled “Low-profile Magneto-electric Dipole Antenna” in IETE Journal of Research in **January-June 2023**, doi: [10.1080/03772063.2021.1873200](https://doi.org/10.1080/03772063.2021.1873200).
- Damodhar, T. S. Balaji, Department of EEE published an article titled “Improving Power Quality by DSTATCOM Based DQ Theory with Soft Computing Techniques” in Intelligent Automation and Soft Computing in **January-June 2023**, doi: [10.32604/iasc.2023.032039](https://doi.org/10.32604/iasc.2023.032039).
- Arijit Bardhan Roy, Department of EEE published an article titled “Optical studies and validation of multidimensional hybrid metamaterial embedded light trapping structure for p-Si/n-ZnO based thin c-Si solar cell” in Materials Research Innovations in **January-June 2023**, doi: [10.1080/14328917.2022.2087026](https://doi.org/10.1080/14328917.2022.2087026).
- Baskaran Selvam, Department of Mechanical Engineering published an article titled “A mathematical approach of evaluating sustainability indicators in milling of aluminium hybrid composite by different eco-friendly cooling strategies” in Sustainable Materials and Technologies in **January-June 2023**, doi: [10.1016/j.susmat.2023.e00605](https://doi.org/10.1016/j.susmat.2023.e00605).
- Satyajit Pattanayak, Department of Mechanical Engineering published an article titled “Investigation of kinetic triplets and thermodynamic parameters of different species of bamboo-biomass from North-East India” in International Journal of Chemical Kinetics in **January-June 2023**, doi: [10.1002/kin.21639](https://doi.org/10.1002/kin.21639).
- Anantha Raman Lakshmi pathi, Department of Mechanical Engineering published an article titled “Effect of Adding Rice Husk Ash Functional Silicon Additives on Flammability Wear and Thermal Stability of Ramie-Epoxy Composite” in Silicon in **January-June 2023**, doi: [10.1007/s12633-023-02463-x](https://doi.org/10.1007/s12633-023-02463-x).
- L. Anantha Raman, Department of Mechanical Engineering published an article titled “Assessment of charging technologies, infrastructure and charging station recommendation schemes of electric vehicles: A review” in Ain Shams Engineering Journal in **January-June 2023**, doi: [10.1016/j.asej.2022.101938](https://doi.org/10.1016/j.asej.2022.101938).
- Satyajit Pattanayak, Department of Mechanical Engineering published an article titled “Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in N<sub>2</sub> atmosphere” in Sustainable Energy Technologies and Assessments in **January-June 2023**, doi: [10.1016/j.seta.2023.103266](https://doi.org/10.1016/j.seta.2023.103266).
- Vishal Jagota, Department of Mechanical Engineering published an article titled “RETRACTED ARTICLE: Research on optimization of scientific research performance management based on BP neural network” in International Journal of System Assurance Engineering and Management in **January-June 2023**, doi: [10.1007/s13198-021-01263-z](https://doi.org/10.1007/s13198-021-01263-z).
- Kulmani Mehar, Department of Mechanical Engineering published an article titled “Biofuel production from novel Prunus domestica kernel oil: process optimization technique” in Biomass Conversion and Biorefinery in **January-June 2023**, doi: [10.1007/s13399-021-01551-5](https://doi.org/10.1007/s13399-021-01551-5).



## Paper Publications

- Yuvarajan Devarajan, Department of Mechanical Engineering published an article titled “Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine” in Biomass Conversion and Biorefinery in **January-June 2023**, doi: [10.1007/s13399-021-01293-4](https://doi.org/10.1007/s13399-021-01293-4).
- S. Manoj Kumar, Department of Mechanical Engineering published an article titled “Mechanical, Dielectric and Thermal Stability of Silicon Oxynitride Nanoparticle Dispersed Tamarind Fiber-Reinforced Epoxy Bio-composite” in Silicon in **January-June 2023**, doi: [10.1007/s12633-023-02320-x](https://doi.org/10.1007/s12633-023-02320-x).
- Kulmani Mehar, Department of Mechanical Engineering published an article titled “Thermal post-buckling analysis of graded sandwich curved structures under variable thermal loadings” in Engineering with Computers in **January-June 2023**, doi: [10.1007/s00366-021-01514-4](https://doi.org/10.1007/s00366-021-01514-4).
- Vishal Jagota, Department of Mechanical Engineering published an article titled “A comprehensive approach of hydrological issues related to ground water using GIS in the Hindu holy city of Gaya, India” in World Journal of Engineering in **January-June 2023**, doi: [10.1108/WJE-04-2021-0223](https://doi.org/10.1108/WJE-04-2021-0223).
- K.V. Nagesha, D. Arunkumar, Department of Mechanical Engineering published an article titled “Parametric study on four station ball mill for synthesis of ultrafine powders” in Materials Today: Proceedings in **January-June 2023**, doi: [10.1016/j.matpr.2023.04.360](https://doi.org/10.1016/j.matpr.2023.04.360).
- Ram Krishna, Department of Mechanical Engineering published an article titled “Comprehensive study of diesel engine characteristics of valves coated by titanium nitride (TiN)” in Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering in **January-June 2023**, doi: [10.1177/09544089231157950](https://doi.org/10.1177/09544089231157950).
- Ram Krishna, Department of Mechanical Engineering published an article titled “Advances in Biomedical Applications of Raman Microscopy and Data Processing: A Mini Review” in Analytical Letters in **January-June 2023**, doi: [10.1080/00032719.2022.2094391](https://doi.org/10.1080/00032719.2022.2094391).
- Vishal Jagota, Department of Mechanical Engineering published an article titled “A retrospection of the effect of nitriding processes on the AISI H13 tool steel” in Advances in Materials and Processing Technologies in **January-June 2023**, doi: [10.1080/2374068X.2022.2093012](https://doi.org/10.1080/2374068X.2022.2093012).
- Amruta Panda, Department of Mechanical Engineering published an article titled “Erosion and wear analysis of fly ash filled GFRP composite” in Materials Today: Proceedings in **January-June 2023**, doi: [10.1016/j.matpr.2023.01.140](https://doi.org/10.1016/j.matpr.2023.01.140).
- P. Sivaiah, C. Yuvaraj, Department of Mechanical Engineering published an article titled “Investigation on turning process performance during machining of 15-5PH stainless steel material with eco-friendly machining technique” in Materials Today: Proceedings in **January-June 2023**, doi: [10.1016/j.matpr.2023.03.303](https://doi.org/10.1016/j.matpr.2023.03.303).
- Anantha Raman Lakshmipathi, Department of Mechanical Engineering published an article titled “Influence of Metallic Particles on Properties of Aluminium Composites through Taguchi Technique” in Advances in Materials Science and Engineering in **January-June 2023**, doi: [10.1155/2023/9637728](https://doi.org/10.1155/2023/9637728).
- Ramalingam, Rajakumar, Department of Mechanical Engineering published an article titled “EECHS-ARO: Energy-efficient cluster head selection mechanism for livestock industry using artificial rabbits optimization and wireless sensor networks” in Electronic Research Archive in **January-June 2023**, doi: [10.3934/era.2023158](https://doi.org/10.3934/era.2023158).
- Vishal Jagota, Department of Mechanical Engineering published an article titled “A Genetic Algorithm of Computer-Aided Architectural Design Based on BIM” in Computer-Aided Design and Applications in **January-June 2023**, doi: [10.14733/cadaps.2023.S3.225-237](https://doi.org/10.14733/cadaps.2023.S3.225-237).





## Paper Publications

- Nishant Sharan, Department of ECE published an article titled “Alleviating LED Nonlinearity in a HACO System Using a Blend of Precoder and a  $\mu$ -Law Compressor” in Wireless Personal Communications in **January-June 2023**, doi: [10.1007/s11277-023-10474-5](https://doi.org/10.1007/s11277-023-10474-5).
- P. Sivaiah, Department of Mechanical Engineering published an article titled “Selection of best WEDM process parameters using grey relational analysis method” in Materials Today: Proceedings in **January-June 2023**, doi: [10.1016/j.matpr.2023.03.443](https://doi.org/10.1016/j.matpr.2023.03.443).
- P. Teja Vardhan Kumar, K. Viswanatha Naidu, P. Venkateswar Reddy, Department of ECE published an article titled “Performance Analysis of Pool-Based Spectrum Handoff in Cognitive Radio Networks” in Wireless Personal Communications in **January-June 2023**, doi: [10.1007/s11277-023-10441-0](https://doi.org/10.1007/s11277-023-10441-0).
- Soniya Chaudhary, Department of ECE published an article titled “Study of Surface Waves Transmission in Orthotropic Bilateral Structure” in International Journal of Applied and Computational Mathematics in **January-June 2023**, doi: [10.1007/s40819-023-01487-6](https://doi.org/10.1007/s40819-023-01487-6).
- Rakesh Nath Tiwari, Department of ECE published an article titled “Semi-Flexible Diversified Circularly Polarized Millimeter-Wave MIMO Antenna for Wearable Biotechnologies” in IEEE Transactions on Antennas and Propagation in **January-June 2023**, doi: [10.1109/TAP.2023.3255507](https://doi.org/10.1109/TAP.2023.3255507).
- Sabiha Cheruvu, Department of ECE published an article titled “Array Antenna Pattern Synthesis using Improved Particle Swarm Optimization (IPSO) Algorithm” in ECTI Transactions on Electrical Engineering, Electronics, and Communications in **January-June 2023**, doi: [10.37936/ecti-eec.2023212.249806](https://doi.org/10.37936/ecti-eec.2023212.249806).
- Ravi Shankar, Department of ECE published an article titled “Examination of the Multiple-Input Multiple-Output Space-Time Block-Code Selective Decode and Forward Relaying Protocol over Non-Homogeneous Fading Channel Conditions” in Journal of Defense Modeling and Simulation in **January-June 2023**, doi: [10.1177/15485129211047598](https://doi.org/10.1177/15485129211047598).
- Ravi Shankar, Department of ECE published an article titled “Impact of the Learning Rate and Batch Size on NOMA System Using LSTM-Based Deep Neural Network” in Journal of Defense Modeling and Simulation in **January-June 2023**, doi: [10.1177/15485129211049782](https://doi.org/10.1177/15485129211049782).
- G Naga Jyothi, Department of ECE published an article titled “Enhancing Network Forensic and Deep Learning Mechanism for Internet of Things Networks” in Journal of Scientific and Industrial Research in **January-June 2023**, doi: [10.56042/jsir.v82i05.1084](https://doi.org/10.56042/jsir.v82i05.1084).
- Nehru Kandasamy, Department of ECE published an article titled “Design of Novel Low Power Architectures of 4:2, 5:2 Compressors and 2-Bit Counter Using 7 nm FinFET Technology” in Journal of Ambient Intelligence and Humanized Computing in **January-June 2023**, doi: [10.1007/s12652-022-04498-1](https://doi.org/10.1007/s12652-022-04498-1).
- Abhinav Adarsh, Department of ECE published an article titled “Low-Latency and High-Reliability FBMC Modulation Scheme Using Optimized Filter Design for Enabling NextG Real-Time Smart Healthcare Applications” in Journal of Supercomputing in **January-June 2023**, doi: [10.1007/s11227-022-04799-4](https://doi.org/10.1007/s11227-022-04799-4).
- Velmani Ramasamy, Department of ECE published an article titled “Tripartite Transmitting Methodology for Intermittently Connected Mobile Network (ICMN)” in ACM Transactions on Internet Technology in **January-June 2023**, doi: [10.1145/3433545](https://doi.org/10.1145/3433545).
- Janmoni Borah, Joyatri Bora, Department of ECE published an article titled “Dynamic Cell Sleeping Mechanism: An Energy-Efficient Approach for Mobile 5G HetCN” in International Journal of Communication Systems in **January-June 2023**, doi: [10.1002/dac.5422](https://doi.org/10.1002/dac.5422).



## Paper Publications

- Soumya Ranjan Mahapatro, Department of ECE published an article titled “Disturbance Rejection-Based Robust Decentralized Controller Design for a Multivariable System” in Transactions of the Institute of Measurement and Control in **January-June 2023**, doi: [10.1177/01423312221114348](https://doi.org/10.1177/01423312221114348).
- S. Roy, Department of ECE published an article titled “Investigation of Switching Behavior of ZnO/TiO<sub>2</sub> Multilayer Configurations” in Journal of Electronic Materials in January-June 2023, doi: [10.1007/s11664-023-10383-0](https://doi.org/10.1007/s11664-023-10383-0).
- Devashish Jha, Department of ECE published an article titled “NACA2412 Airfoil Based Method for Design and Aerodynamic Analysis of Small HAWT Using Modified BEM Approach” in Science and Technology for Energy Transition (STET) in **January-June 2023**, doi: [10.2516/stet/2022023](https://doi.org/10.2516/stet/2022023).
- Nehru Kandasamy, Department of ECE published an article titled “Smart Device for Women’s Safety Designed Using IoT and Virtual Instrumentation Browser” in International Journal of Interactive Mobile Technologies in **January-June 2023**, doi: [10.3991/ijim.v17i02.35227](https://doi.org/10.3991/ijim.v17i02.35227).
- Subramamiam Rajasekaran, Department of ECE published an article titled “Power Minimization in Cell-Free Massive MIMO with AP Selection Algorithm” in International Journal of Sensors, Wireless Communications and Control in **January-June 2023**, doi: [10.2174/2210327913666230314122645](https://doi.org/10.2174/2210327913666230314122645).
- Avik Banerjee, Department of ECE published an article titled “Jamming in Eavesdropping on Throughput Maximization in Green Cognitive Radio Networks” in IEEE Transactions on Mobile Computing in **January-June 2023**, doi: [10.1109/TMC.2021.3068797](https://doi.org/10.1109/TMC.2021.3068797).
- Goutam Chakraborty, Department of CSE published an article titled “A Novel Precomputed Optimal Procrastination Time Interval for Re-Clustering to Maximize Operation Time of Wireless Sensor Networks” in IEEE Transactions on Network and Service Management in **January-June 2023**, doi: [10.1109/TNSM.2022.3229740](https://doi.org/10.1109/TNSM.2022.3229740).
- K. Sudhakar, Department of CSE published an article titled “A Multi-Stage Faster RCNN-Based iSPLInception for Skin Disease Classification Using Novel Optimization” in Journal of Digital Imaging in **January-June 2023**, doi: [10.1007/s10278-023-00848-3](https://doi.org/10.1007/s10278-023-00848-3).
- G. N. Vivekananda, Department of CSE published an article titled “Supervision System of English Online Teaching Based on Machine Learning” in Progress in Artificial Intelligence in **January-June 2023**, doi: [10.1007/s13748-021-00274-y](https://doi.org/10.1007/s13748-021-00274-y).
- S. Elango, Department of CSE published an article titled “Analysis of Social Network Data Mining for Security Intelligence Privacy Machine Learning” in International Journal on Recent and Innovation Trends in Computing and Communication in **January-June 2023**, doi: [10.17762/ijritcc.v11i8s.7185](https://doi.org/10.17762/ijritcc.v11i8s.7185).
- Shankar R, Department of CSE published an article titled “5G NOMA Defense Application Environment and Stacked LSTM Network Architectures” in Journal of Mobile Multimedia in **January-June 2023**, doi: [10.13052/jmm1550-4646.1914](https://doi.org/10.13052/jmm1550-4646.1914).
- R. Nidhya, Department of CSE published an article titled “A Secured and Optimized Deep Recurrent Neural Network (DRNN) Scheme for Remote Health Monitoring System with Edge Computing” in Automatika in **January-June 2023**, doi: [10.1080/00051144.2023.2195218](https://doi.org/10.1080/00051144.2023.2195218).
- Goutam Chakraborty; Basabi Chakraborty, Department of CSE, CST published an article titled “Grading of HCC Biopsy Images Using Nucleus and Texture Features” in IEEE Journal of Biomedical and Health Informatics in **January-June 2023**, doi: [10.1109/JBHI.2022.3215226](https://doi.org/10.1109/JBHI.2022.3215226).



## Paper Publications

- Bandi Vamsi, Department of CSE-AI published an article titled “A Corpus-Based Auto-encoder-and-Decoder Machine Translation Using Deep Neural Network for Translation from English to Telugu Language” in SN Computer Science in **January-June 2023**, doi: [10.1007/s42979-023-01678-4](https://doi.org/10.1007/s42979-023-01678-4).
- Bandi Vamsi, Department of CSE-AI published an article titled “An Auto Encoder-Decoder Approach to Classify the Bird Sounds Using Deep Learning Techniques” in SN Computer Science in **January-June 2023**, doi: [10.1007/s42979-023-01686-4](https://doi.org/10.1007/s42979-023-01686-4).
- R. Rajakumar, Department of CST published an article titled “multi-objective swarm-based model for deploying virtual machines on cloud physical servers” in Distributed and Parallel Databases in **January-June 2023**, doi: [10.1007/s10619-021-07341-2](https://doi.org/10.1007/s10619-021-07341-2).
- Manikandan Rajagopal, Department of CST published an article titled “An Efficient Framework to Detect Intracranial Hemorrhage Using Hybrid Deep Neural Networks” in Brain Sciences in **January-June 2023**, doi: [10.3390/brainsci13030400](https://doi.org/10.3390/brainsci13030400).
- Mageshkumar N, Department of CST published an article titled “Prediction of User Attrition in Telecommunication Using Neural Network” in EAI Endorsed Transactions on Scalable Information Systems in **January-June 2023**, doi: [10.4108/EETSIS.5242](https://doi.org/10.4108/EETSIS.5242).
- Basabi Chakraborty, Department of CST published an article titled “Quantum-Inspired Owl Search Algorithm with Ensembles of Filter Methods for Gene Subset Selection from Microarray Data” in International Journal of Pattern Recognition and Artificial Intelligence in **January-June 2023**, doi: [10.1142/S0218001423510011](https://doi.org/10.1142/S0218001423510011).
- Rajakumar Ramalingam, Department of CST published an article titled “Predicting Alzheimer’s Disease Using Deep Neuro-Functional Networks with Resting-State fMRI” in Electronics (Switzerland) in **January-June 2023**, doi: [10.3390/electronics12041031](https://doi.org/10.3390/electronics12041031).
- N. Praveena, Rajakumar Ramalingam, Department of CST published an article titled “Hybrid gated recurrent unit and convolutional neural network-based deep learning mechanism for efficient shilling attack detection in social networks” in Computers and Electrical Engineering in **January-June 2023**, doi: [10.1016/j.compeleceng.2023.108673](https://doi.org/10.1016/j.compeleceng.2023.108673).
- Basabi Chakraborty, Department of CST published an article titled “Automatic detection and visualization system for coronary artery calcification using optical frequency domain imaging” in Artificial Life and Robotics in **January-June 2023**, doi: [10.1007/s10015-023-00854-2](https://doi.org/10.1007/s10015-023-00854-2).
- Rajakumar Ramalingam, Department of CST published an article titled “Multi-Objective ABC-NM Algorithm for Multi-Dimensional Combinatorial Optimization Problem” in Axioms in **January-June 2023**, doi: [10.3390/axioms12040395](https://doi.org/10.3390/axioms12040395).
- Muralidhar Pantula, Department of CST published an article titled “A study on media players from an accessibility perspective” in International Journal of Computer Aided Engineering and Technology in **January-June 2023**, doi: [10.1504/IJCAET.2023.131920](https://doi.org/10.1504/IJCAET.2023.131920).
- M. Sreedevi, R. Rajakumar, Department of CST published an article titled “Secure keys data distributio based user-storage-transit server authentication process model using mathematical post-quantum cryptography methodology” in Networks and Heterogeneous Media in **January-June 2023**, doi: [10.3934/NHM.2023057](https://doi.org/10.3934/NHM.2023057).
- Chandani Kumari, Department of Mathematics published an article titled “Impact of Prestressed Anisotropic Porous and Prestressed Anisotropic Magnetoelastic Layers on a Love-Type Wave” in International Journal of Geomechanics in **January-June 2023**, doi: [10.1061/IJGNAI.GMENG-7113](https://doi.org/10.1061/IJGNAI.GMENG-7113).
- Ahsan Mahboob, Department of Mathematics published an article titled “A Novel Study of Fuzzy Bi-Ideals in Ordered Semirings” in Axioms in **January-June 2023**, doi: [10.3390/axioms12070626](https://doi.org/10.3390/axioms12070626).



## Paper Publications

- Mohd Saif, Department of Mathematics published an article titled “Evaluation of Norm of  $(p, q)$ -Bernstein Operators” in *Mathematica Slovaca* in **January-June 2023**, doi: [10.1515/ms-2023-0034](https://doi.org/10.1515/ms-2023-0034).
- Ahsan Mahboob, Department of Mathematics published an article titled “Integrity on  $m$ -Polar Fuzzy Graphs and Its Application” in *Mathematics* in **January-June 2023**, doi: [10.3390/math11061398](https://doi.org/10.3390/math11061398).
- Ahsan Mahboob, Department of Mathematics published an article titled “Hyperstructure Theory Applied to BF-Algebras” in *Symmetry* in **January-June 2023**, doi: [10.3390/sym15051106](https://doi.org/10.3390/sym15051106).
- Narasimha Murthy K.V, Department of Mathematics published an article titled “Retraction Note: A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901–2017 (Pure and Applied Geophysics, (2020), 177, 11, (5551-5565), 10.1007/s00024-019-02236-x)” in *Pure and Applied Geophysics* in **January-June 2023**, doi: [10.1007/s00024-023-03263-5](https://doi.org/10.1007/s00024-023-03263-5).
- Adnan Abbasi, Department of Mathematics published an article titled “Commutativity of Multiplicative B-Generalized Derivations of Prime Rings” in *Korean Journal of Mathematics* in **January-June 2023**, doi: [10.11568/kjm.2023.31.1.95](https://doi.org/10.11568/kjm.2023.31.1.95).
- Adnan Abbasi, Department of Mathematics published an article titled “A study of Jordan involution on prime rings involving derivations” in *Analele Stiintifice ale Universitatii Al I Cuza din Iasi - Matematica* in **January-June 2023**, doi: [10.47743/anstim.2023.00007](https://doi.org/10.47743/anstim.2023.00007).
- Chalapathi, T., Department of Mathematics published an article titled “Enumeration of Neutrosophic Involutions over Finite Commutative Neutrosophic Rings” in *Neutrosophic Sets and Systems* in **January-June 2023**, doi: [10.5281/zenodo.8404443](https://doi.org/10.5281/zenodo.8404443).
- Mohd Saif, Department of Mathematics published an article titled “Error estimation by Schurer type  $(p, q)$ -Lorentz operator on a compact disk” in *Filomat* in **January-June 2023**, doi: [10.2298/FIL2301303S](https://doi.org/10.2298/FIL2301303S).
- Nanda Kumar Reddy Nallabala, C. Yuvaraj, Department of Physics, Mechanical Engineering published an article titled “Structure, morphology, photon conversion and energy transfer characteristics of  $\text{Er}^{3+}/\text{Yb}^{3+}$ :  $\text{BaYF}_5$  nanocrystals synthesized by hydrothermal method for photovoltaics in *Ceramics International* in **January-June 2023**, doi: [10.1016/j.ceramint.2023.05.225](https://doi.org/10.1016/j.ceramint.2023.05.225).
- K. Chandrakant, Department of Physics published an article titled “Substantial enhancement in magnetic and magnetodielectric properties of  $0.7(\text{Bi}_2\text{Fe}_4\text{O}_9)-0.3(\text{La}_0.67\text{Sr}_0.33\text{MnO}_3)$  composite in *Journal of Magnetism and Magnetic Materials* in **January-June 2023**, doi: [10.1016/j.jmmm.2023.170813](https://doi.org/10.1016/j.jmmm.2023.170813).
- K. Chandrakanta, Department of Physics published an article titled “Enhanced magnetic, magnetodielectric, and field-dependent magnetoimpedance correlation in the  $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}/\text{Bi}_2\text{Fe}_4\text{O}_9$  composites in *Journal of Magnetism and Magnetic Materials* in **January-June 2023**, doi: [10.1016/j.jmmm.2023.170910](https://doi.org/10.1016/j.jmmm.2023.170910).
- Nanda Kumar Reddy Nallabala, Yuvaraj C, Department of Physics, Mechanical Engineering published an article titled “Evaluation of Photosensing Parameters of  $\text{Au}/\text{polystyrene}/n\text{-Si}$  Heterojunction Based Self-Powered Organic Broadband Photodetectors” in *Silicon* in **January-June 2023**, doi: [10.1007/s12633-023-02458-8](https://doi.org/10.1007/s12633-023-02458-8).
- Eswaraiiah Sunkara, Department of Physics published an article titled “Observational Evidence of Nonlinear Wave-Wave Interaction Over Antarctic MLT Region” in *Journal of Geophysical Research: Space Physics* in **January-June 2023**, doi: [10.1029/2022JA030738](https://doi.org/10.1029/2022JA030738).



## Paper Publications

- Chandra Sekhar M, Department of Physics published an article titled “Ni-Co PBA-decorated CNTs as battery-type cathode materials for potassium-ion hybrid capacitors” in Journal of Energy Storage in **January-June 2023**, doi: [10.1016/j.est.2023.106870](https://doi.org/10.1016/j.est.2023.106870).
- Nanda Kumar Reddy Nallabala, Lokendra P. Singh, C. Yuvaraj, Department of Physics, Mechanical Engineering published an article titled “UV-to-NIR broadband photodetecting sensors using n-TiO<sub>2</sub> nanorods/p-Si heterojunction in lateral and vertical configurations in Applied Physics A: Materials Science and Processing in **January-June 2023**, doi: [10.1007/s00339-023-06649-3](https://doi.org/10.1007/s00339-023-06649-3).
- Singh L.P., Department of Physics published an article titled “Primary and secondary relaxation processes in poly(propylene glycol) monobutyl ether: a broadband dielectric spectroscopy investigation in Polymer Journal in **January-June 2023**, doi: [10.1038/s41428-022-00728-7](https://doi.org/10.1038/s41428-022-00728-7).
- Kouru Chandrakanta, Department of Physics published an article titled “Investigation of dielectric, impedance, and magnetodielectric behavior in Bi<sub>5</sub>Ti<sub>3</sub>FeO<sub>15</sub>-Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub> composites prepared by sol-gel modified method in International Journal of Materials Research in **January-June 2023**, doi: [10.1515/ijmr-2022-0035](https://doi.org/10.1515/ijmr-2022-0035).
- Kouru Chandrakanta, Department of Physics published an article titled “Temperature and magnetic field controlled dielectric relaxation and magnetodielectric response in KBiFe<sub>1.9</sub>Co<sub>0.1</sub>O<sub>5</sub> polycrystalline” in International Journal of Materials Research in **January-June 2023**, doi: [10.1515/ijmr-2022-0076](https://doi.org/10.1515/ijmr-2022-0076).
- Nanda Kumar Reddy Nallabala, Lokendra P. Singh, Department of Physics published an article titled “Self-powered and improved photoresponsive broadband photodetecting sensors using Au/NiFe<sub>2</sub>O<sub>4</sub>/p-Si heterojunction architecture” in Materials Science in Semiconductor Processing in **January-June 2023**, doi: [10.1016/j.mssp.2022.107266](https://doi.org/10.1016/j.mssp.2022.107266).
- M. Chandra Sekhar, Department of Physics published an article titled “Enhancing Electrochemical Performance with g-C<sub>3</sub>N<sub>4</sub>/CeO<sub>2</sub> Binary Electrode Material” in *Molecules* in **January-June 2023**, doi: [10.3390/molecules28062489](https://doi.org/10.3390/molecules28062489).
- S. Eswaraiyah, Department of Physics published an article titled “3-D Regional Imaging of Ionosphere Over Africa Through Assimilating Satellite and Ground-Based Data” in Journal of Geophysical Research: Space Physics in **January-June 2023**, doi: [10.1029/2022JA030859](https://doi.org/10.1029/2022JA030859).
- Lokendra P. Singh, Department of Physics published an article titled “Dielectric spectroscopy investigation of relaxation processes in the low-frequency regime and validity of the Stokes–Einstein–Nernst/Stokes–Einstein–Debye relation in poly(propylene glycol) in Macromolecular Research in **January-June 2023**, doi: [10.1007/s13233-022-00104-7](https://doi.org/10.1007/s13233-022-00104-7).
- Sumanta Sahoo, Department of Chemistry published an article titled “Theoretical and Experimental Investigation of In Situ Grown MOF-Derived Oriented Zr-Mn-oxide and Solution-Free CuO as Hybrid Electrode for Supercapacitors” in *Advanced Functional Materials* in **January-June 2023**, doi: [10.1002/adfm.202210002](https://doi.org/10.1002/adfm.202210002).
- Balaji Mohan, Department of Chemistry published an article titled “Metal–Organic Frameworks-Based Cathode Materials for Energy Storage Applications: A Review” in *Energy Technology* in **January-June 2023**, doi: [10.1002/ente.202201200](https://doi.org/10.1002/ente.202201200).
- Chikkili Venkateswara Raju, Department of Chemistry published an article titled “Guar Gum Supported ZIF-8 as an Effective Catalyst for Electrochemical Sensing of Gallic Acid in Liquid Food Samples in Journal of the Electrochemical Society in **January-June 2023**, doi: [10.1149/1945-7111/acc556](https://doi.org/10.1149/1945-7111/acc556).
- Chikkili Venkateswara Raju, Department of Chemistry published an article titled “Ultrasensitive Detection of Bovine Serum Albumin on DNA Modified Protein Microcapsules-based Electrodes” in Journal of the Electrochemical Society in **January-June 2023**, doi: [10.1149/1945-7111/acd357](https://doi.org/10.1149/1945-7111/acd357).



## Paper Publications

- R. Bhaskaran, Department of Chemistry published an article titled “A highly selective Schiff base fluorescent sensor for Zn<sup>2+</sup>, Cd<sup>2+</sup> and Hg<sup>2+</sup> based on 2,4-dinitrophenylhydrazine derivative” in Inorganic Chemistry Communications in **January-June 2023**, doi: [10.1016/j.inoche.2023.110959](https://doi.org/10.1016/j.inoche.2023.110959).
- P. Amaladass, Department of Chemistry published an article titled “Design, Synthesis, Molecular Docking Study and Biological Evaluation of Novel  $\gamma$ -Carboline Derivatives of Latrepirdine (Dimebon) as Potent Anticancer Agents in Molecules in **January-June 2023**, doi: [10.3390/molecules28134965](https://doi.org/10.3390/molecules28134965).
- P. Amaladass, Department of Chemistry published an article titled “Solution processed highly transparent nitrogen-doped carbon quantum dots/ZnO hybrid thin films: A study on structural and enhanced UV emission” in Applied Surface Science in **January-June 2023**, doi: [10.1016/j.apsusc.2022.155664](https://doi.org/10.1016/j.apsusc.2022.155664).
- Anjali Gummadi, Department of Management Studies published an article titled “Influence of employee engagement on motivation among the banking professionals in South India in *Organizatsionnaya Psikhologiya* in **January-June 2023**, doi: [10.17323/2312-5942-2023-13-3-131-144](https://doi.org/10.17323/2312-5942-2023-13-3-131-144).

## Conferences Papers

- Mahantesh Neelawani, Department of Civil Engineering presented a paper titled “Behavior of Fully and Partially Encased Stone Column in Black Cotton Soil” in Lecture Notes in Civil Engineering in **January-June 2023**, doi: [10.1007/978-981-19-1862-9\\_8](https://doi.org/10.1007/978-981-19-1862-9_8).
- Thurai Raaj V B, Department of EEE presented a paper titled “Deep Learning based ROI Segmentation using Convolution Neural Network” in Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023 in **January-June 2023**, doi: [10.1109/ICAAIC56838.2023.10140635](https://doi.org/10.1109/ICAAIC56838.2023.10140635).
- K. Lakshmikhandan, Department of EEE presented a paper titled “Wind and Solar Hybrid Power Generation for DC grid” in *Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023* in **January-June 2023**, doi: [10.1109/ICIPTM57143.2023.10118288](https://doi.org/10.1109/ICIPTM57143.2023.10118288).
- Thurai Raaj V B, Department of EEE presented a paper titled “Smart Controller for Air Conditioning in Car using IoT” in Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, ICEARS 2023 in **January-June 2023**, doi: [10.1109/ICEARS56392.2023.10085112](https://doi.org/10.1109/ICEARS56392.2023.10085112).
- S. Manoj Kumar, Department of Mechanical Engineering presented a paper titled “Wear behavior of heat treated and chromium nitride coated 316L SS steel against steel ball in wet condition” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0132535](https://doi.org/10.1063/5.0132535).
- V. Shankernath, Department of Mechanical Engineering presented a paper titled “First principal calculations of electronic and optical properties of NiSi<sub>2</sub>” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0134133](https://doi.org/10.1063/5.0134133).
- Hanmant Phadatare; Ram Krishna; P. Balaji, Department of Mechanical Engineering presented a paper titled “Design and analysis of tuned vibrational absorber for a vibrating system with unbalance excitation” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0134206](https://doi.org/10.1063/5.0134206).
- V. Shankernath, Department of Mechanical Engineering presented a paper titled “Deconvolution and quantitation of Raman spectrum of graphene oxide synthesized by improved hummers method” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0134130](https://doi.org/10.1063/5.0134130).



## Conference Papers

- Ram Krishna, Department of Mechanical Engineering presented a paper titled “Machine learning application in evaluation of graphite plates” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0134170](https://doi.org/10.1063/5.0134170).
- Ram Krishna, Department of Mechanical Engineering presented a paper titled “Structural analysis of grey iron nose leg component produced by lost foam casting” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0134167](https://doi.org/10.1063/5.0134167).
- Ram Krishna, Department of Mechanical Engineering presented a paper titled “Correlation between X-ray diffraction line profile and microstructure of spheroidized Alumina micropowder for 3D printing application” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0134169](https://doi.org/10.1063/5.0134169).
- S. Manoj Kumar; Muthu Lakshmanan; G. Kumar, Department of Mechanical Engineering presented a paper titled “Tribological investigation of shot peened NiP-CN electroless coating on EN31 steel” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0132537](https://doi.org/10.1063/5.0132537).
- Jagannath Pattar; P. Amruta; M. Mounika; N. Sumanjali; P. Vaishnavi; D. Ravi Teja; B. Venkata Narasimha; K. Syed Moinuddin; P. Mahesh Krishna, Department of Mechanical Engineering presented a paper titled “Design, fabrication and testing of automatic side stand retrieval system using electronic components” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0134129](https://doi.org/10.1063/5.0134129).
- Ram Krishna, Department of Mechanical Engineering presented a paper titled “Machine learning applications for early-stage diagnosis of diabetic patients” in *AIP Conference Proceedings* in **January-June 2023**, doi: [10.1063/5.0134168](https://doi.org/10.1063/5.0134168).
- Ch. Satheesh Kumar, Department of Mechanical Engineering presented a paper titled “Prediction of the Propagation of Fatigue Cracks for a Beam Specimen in Four-Point Bending Using CASCA and FRANC2D” in *Lecture Notes in Mechanical Engineering* in **January-June 2023**, doi: [10.1007/978-981-19-3938-9\\_32](https://doi.org/10.1007/978-981-19-3938-9_32).
- K V Nagesha, Department of Mechanical Engineering presented a paper titled “Analysis on Implementation of Artificial Intelligence in the sports Activity” in *Proceedings of 8th IEEE International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM 2023* in **January-June 2023**, doi: [10.1109/ICONSTEM56934.2023.10142734](https://doi.org/10.1109/ICONSTEM56934.2023.10142734).
- Gutti Naga Swetha; K. Bharath; B. Ganesh; P. Narasimhulu, Department of ECE presented a paper titled “Avoiding Dynamic Time Error by Implementing Prediction Logic” in *ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings* in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10157358](https://doi.org/10.1109/ViTECoN58111.2023.10157358).
- A Rakesh Babu; K Sunanda; C Sai Charan Kumar; S. K. Tripathi, Department of ECE presented a paper titled “Developing an image strengthening method for improving the contrast and colours of underwater photographs focused on haze removal” in *ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings* in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10156943](https://doi.org/10.1109/ViTECoN58111.2023.10156943).
- K R Dinakar; P Dileep Reddy; B Gowthami; S. K. Tripathi, Department of ECE presented a paper titled “Design of CMOS Low Noise Amplifier Using 180NM Current Conveyor” in *ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings* in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10157438](https://doi.org/10.1109/ViTECoN58111.2023.10157438).



## Conference Papers

- Mooni Rahul; Velidandla Vaishnavi; Kasthuri Vyshnavi; Chandramauleshwar Roy, Department of ECE presented a paper titled “Power Aware 10T Static Random-Access Memory Design” in ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10157217](https://doi.org/10.1109/ViTECoN58111.2023.10157217).
- A Rakesh Babu; K Sunanda; C Sai Charan Kumar; Abhinav Adarshesh Babu; K Sunanda; C Sai Charan Kumar; Abhinav Adarsh, Department of ECE presented a paper titled “Designing of image enhancement technique for contrast and color improvement based on haze removal of underwater images” in ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10157761](https://doi.org/10.1109/ViTECoN58111.2023.10157761).
- K. Sreelekha; S. Sreekar; C. Sai Sudeep; Bikash Ranjan Behera, Department of ECE presented a paper titled “Metasurface Superstrate Towards the Enhancement of Antenna Performances for RF Energy Harvesting” in ViTECoN 2023 - 2nd IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Proceedings in **January-June 2023**, doi: [10.1109/ViTECoN58111.2023.10157590](https://doi.org/10.1109/ViTECoN58111.2023.10157590).
- Debashish Pal; V. Sravani; D.S Sneha; M. Rajesh, Department of ECE presented a paper titled “Design of an Efficient Routing Technique based on Clustering” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10133940](https://doi.org/10.1109/RAEEUCCI57140.2023.10133940).
- Soumya Ranjan Mahapatro, Department of ECE presented a paper titled “A Comparative Analysis of Various Decoupling Techniques Using Frequency Domain Specifications” in 2023 3rd International Conference on Artificial Intelligence and Signal Processing, AISP 2023 in **January-June 2023**, doi: [10.1109/AISP57993.2023.10134786](https://doi.org/10.1109/AISP57993.2023.10134786).
- Dhruba Jyoti Bora, Department of ECE presented a paper titled “A study of the characteristics of Skin Impedance Models based on the simulation of models” in 2023 IEEE 8th International Conference for Convergence in Technology, I2CT 2023 in **January-June 2023**, doi: [10.1109/I2CT57861.2023.10126190](https://doi.org/10.1109/I2CT57861.2023.10126190).
- Y. Jhansi; P. Poojitha; D. Mahigeethika; Bikash Ranjan Behera; Debashish Pal, Department of ECE presented a paper titled “Investigation of a FSS Inspired Printed Monopole Antenna with Gain Enhancement for 5G Applications” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10134360](https://doi.org/10.1109/RAEEUCCI57140.2023.10134360).
- G. Prasanth Reddy; G. Manoj; V. Purna Chandra Rao; Bikash Ranjan Behera, Department of ECE presented a paper titled “A Design Methodology for Optimization of Printed Antenna Based on AI-Driven SADEA Technique” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10134119](https://doi.org/10.1109/RAEEUCCI57140.2023.10134119).
- Prashant Upadhyay, Department of ECE presented a paper titled “A compact UWB Monopole Antenna for GPS, LTE and Satellite application with Hybrid Polarization” in 2023 3rd International Conference on Artificial Intelligence and Signal Processing, AISP 2023 in **January-June 2023**, doi: [10.1109/AISP57993.2023.10134988](https://doi.org/10.1109/AISP57993.2023.10134988).





## Conference Papers

- D. Sravani; G. Sai Jayasri; G. Pravallika; Bikash Ranjan Behera; Soumya Ranjan Mahapatro, Department of ECE presented a paper titled “[Exploration of Metalens towards the Enhancement of Antenna Performances](#)” in 2nd IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics, ICDCECE 2023 in **January-June 2023**, doi: [10.1109/ICDCECE57866.2023.10150754](https://doi.org/10.1109/ICDCECE57866.2023.10150754).
- M. Velumani, Department of ECE presented a paper titled “[Lossy Mode Resonance based Optical Fiber Sensor using Polyvinylpyrrolidone/Chitosan composite for identification of Cadmium ions in water](#)” in APSCON 2023 - IEEE Applied Sensing Conference, Symposium Proceedings in **January-June 2023**, doi: [10.1109/APSCON56343.2023.10101207](https://doi.org/10.1109/APSCON56343.2023.10101207).
- Prashant Upadhyay, Department of ECE presented a paper titled “[A Study on Tunable SIW-Based Self-Diplexing Antenna](#)” in Lecture Notes in Networks and Systems in **January-June 2023**, doi: [10.1007/978-981-19-6661-3\\_20](https://doi.org/10.1007/978-981-19-6661-3_20).
- Shaik Uzma; Kutakula Tanusha; Attuluri Tarun; S. Rajasekaran; Soumya Ranjan Mahapatro, Department of ECE presented a paper titled “[Multi-loop Control Design for Two Input Two Output System: A Disturbance Observer Approach](#)” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10134280](https://doi.org/10.1109/RAEEUCCI57140.2023.10134280).
- N. Aparna; L. Bhavana; S. Arun Kumar Naidu; Bikash Ranjan Behera; Debashish Pal, Department of ECE presented a paper titled “[Analysis of CP Characteristics By Gain-Bandwidth Product for Metasurface-Based Monopole Antenna](#)” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10134124](https://doi.org/10.1109/RAEEUCCI57140.2023.10134124).
- S. Roy, Department of ECE presented a paper titled “[Resistive Switching Behavior of TiO<sub>2</sub> Nanostructures Grown by Dip Coating Process](#)” in Mechanisms and Machine Science in **January-June 2023**, doi: [10.1007/978-3-031-20353-4\\_32](https://doi.org/10.1007/978-3-031-20353-4_32).
- Devnath Shah, Department of ECE presented a paper titled “[Application of Intelligent Programmed Genetic Algorithm for Price Forecasting in Green Day-Ahead Market of Indian Energy Exchange](#)” in Smart Innovation, Systems and Technologies in **January-June 2023**, doi: [10.1007/978-981-19-7513-4\\_40](https://doi.org/10.1007/978-981-19-7513-4_40).
- Deepak Agrawal, Department of ECE presented a paper titled “[Switched-Capacitor Phase Shifter Circuit with High Input Impedance and Grounded Capacitors](#)” in 2023 International Conference on Computational Intelligence, Communication Technology and Networking, CICTN 2023 in **January-June 2023**, doi: [10.1109/CICTN57981.2023.10141213](https://doi.org/10.1109/CICTN57981.2023.10141213).
- D. S. Sneha; M. Rajesh; V. Sravani; Bikash Ranjan Behera; Debashish Pal, Department of ECE presented a paper titled “[Non-Uniform Metasurface-Based Microstrip Patch Antenna With Bandwidth and Gain Enhancement for Wireless Applications](#)” in 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023 in **January-June 2023**, doi: [10.1109/RAEEUCCI57140.2023.10134291](https://doi.org/10.1109/RAEEUCCI57140.2023.10134291).
- Arvind K. Agrawal, Department of CSE presented a paper titled “[Study of deformation behaviour on axial compression of aluminium tubes](#)” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0134288](https://doi.org/10.1063/5.0134288).
- Sudhakar K, Department of CSE presented a paper titled “[An IoT-Based System for Fault Detection and Diagnosis in Solar PV Panels](#)” in E3S Web of Conferences in **January-June 2023**, doi: [10.1051/e3sconf/202338705009](https://doi.org/10.1051/e3sconf/202338705009).



## Conference Papers

- Balamurugan, S, Department of CSE presented a paper titled “The Outlook of Food Industry: Effectual Traceability Practice in Supply Chain Management using Internet of Things” in 14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023 in *January-June 2023*, doi: [link](#).
- K. Sudhakar, Department of CSE presented a paper titled “Perceptual Video Summarization Using Keyframes Extraction Technique” in Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023 in *January-June 2023*, doi: [10.1109/ICIPTM57143.2023.10118236](https://doi.org/10.1109/ICIPTM57143.2023.10118236).
- M. Pradeep, Department of CSE presented a paper titled “Production of High Strength Eco-Concrete Incorporating Alccofine and Basalt Fiber” in Lecture Notes in Civil Engineering in *January-June 2023*, doi: [10.1007/978-981-19-1862-9\\_40](https://doi.org/10.1007/978-981-19-1862-9_40).
- Ramya Palaniappan, Department of CSE presented a paper titled “A Novel Hybrid Clustering Model for Wireless Sensor Networks” in Proceedings of the International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering, ICECONF 2023 in *January-June 2023*, doi: [10.1109/ICECONF57129.2023.10083615](https://doi.org/10.1109/ICECONF57129.2023.10083615).
- R. Sundar, Department of CSE presented a paper titled “Evaluating the Solutions to Predict the Impact of Lung Cancer with an Advanced Intelligent Computing Method” in Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023 in *January-June 2023*, doi: [10.1109/ICSSIT55814.2023.10060899](https://doi.org/10.1109/ICSSIT55814.2023.10060899).
- K. P Manikandan, Department of CSE presented a paper titled “A Multi-Criteria Intelligence AID Methodology and IoT Based Data Protection Using Machine Learning” in Proceedings of 8th IEEE International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM 2023 in *January-June 2023*, doi: [10.1109/ICONSTEM56934.2023.10142810](https://doi.org/10.1109/ICONSTEM56934.2023.10142810).
- V. Arun, Department of CSE presented a paper titled “Hybrid Optimization Algorithm to Mitigate Phishing URL Attacks in Smart Cities” in Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023 in *January-June 2023*, doi: [10.1109/ICIPTM57143.2023.10118171](https://doi.org/10.1109/ICIPTM57143.2023.10118171).
- P. Kaliyamoorthi, Department of CSE presented a paper titled “A Novel Architecture for Developing IoT Solutions Applied to Healthcare” in Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023 in *January-June 2023*, doi: [10.1109/ICAAIC56838.2023.10140729](https://doi.org/10.1109/ICAAIC56838.2023.10140729).
- Komala Anamalamudi; Rasheed Ahamed Modin, Department of CSE, CSE-AI presented a paper titled “Subjective Time Estimation to Measure the Cognitive Load of Interactive Mobile User Interfaces” in Proceedings of the 2023 International Conference on Intelligent Systems for Communication, IoT and Security, ICISCoIS 2023 in *January-June 2023*, doi: [10.1109/ICISCoIS56541.2023.10100483](https://doi.org/10.1109/ICISCoIS56541.2023.10100483).
- V. Naveen, Department of CSE presented a paper titled “The Current State of Software Engineering Employing Methods Derived from Artificial Intelligence and Outstanding Challenges” in 1st IEEE International Conference on Innovations in High Speed Communication and Signal Processing, IHCSPP 2023 in *January-June 2023*, doi: [10.1109/IHCSPP56702.2023.10127112](https://doi.org/10.1109/IHCSPP56702.2023.10127112).
- Komala Anamalamudi; Goutam Chakraborty; Nirupa Vakkala, Department of CSE presented a paper titled “Leaky-Integrate-and-Fire Neuron as Pacemaker for Interval Timing” in 2nd Edition of IEEE Delhi Section Owned Conference, DELCON 2023 - Proceedings in *January-June 2023*, doi: [10.1109/DELCON57910.2023.10127242](https://doi.org/10.1109/DELCON57910.2023.10127242).
- P. Kaliyamoorthi, Department of CSE presented a paper titled “A Novel Architecture for Developing IoT Solutions Applied to Healthcare” in Proceedings of the 2nd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2023 in *January-June 2023*, doi: [10.1109/ICAAIC56838.2023.10140729](https://doi.org/10.1109/ICAAIC56838.2023.10140729).



## Conference Papers

- Komala Anamalamudi; Rasheed Ahamed Modin, Department of CSE, CSE-AI presented a paper titled “Subjective Time Estimation to Measure the Cognitive Load of Interactive Mobile User Interfaces” in Proceedings of the 2023 International Conference on Intelligent Systems for Communication, IoT and Security, ICISCOIS 2023 in **January-June 2023**, doi: [10.1109/ICISCOIS56541.2023.10100483](https://doi.org/10.1109/ICISCOIS56541.2023.10100483).
- V. Naveen, Department of CSE presented a paper titled “The Current State of Software Engineering Employing Methods Derived from Artificial Intelligence and Outstanding Challenges” in 1st IEEE International Conference on Innovations in HighSpeed Communication and Signal Processing, IHCSPP 2023 in **January-June 2023**, doi: [10.1109/IHCSPP56702.2023.10127112](https://doi.org/10.1109/IHCSPP56702.2023.10127112).
- Komala Anamalamudi; Goutam Chakraborty; Nirupa Vakkala, Department of CSE presented a paper titled “Leaky-Integrate-and-Fire Neuron as Pacemaker for Interval Timing” in 2nd Edition of IEEE Delhi Section Owned Conference, DELCON 2023 - Proceedings in **January-June 2023**, doi: [10.1109/DELCON57910.2023.10127242](https://doi.org/10.1109/DELCON57910.2023.10127242).
- Thangarasan, Department of CSE presented a paper titled “Modified Imperialist Competitive Algorithm (MICA) For Smart Heart Disease Prediction in IoT System” in 2nd IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics, ICDCCE 2023 in **January-June 2023**, doi: [10.1109/ICDCCE57866.2023.10150732](https://doi.org/10.1109/ICDCCE57866.2023.10150732).
- S. Elango, Department of CSE presented a paper titled “Super Artificial Intelligence Medical Healthcare Services and Smart Wearable System based on IoT for Remote Health Monitoring” in Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023 in **January-June 2023**, doi: [10.1109/ICSSIT55814.2023.10060928](https://doi.org/10.1109/ICSSIT55814.2023.10060928).
- D. Jagadeesan; Sundar. R; Sreekanth. S; Anandaraj. B, Department of CSE, CSE-DS presented a paper titled “Real World Autonomous IoT-Based Data Privacy Protection Using Machine Learning” in Proceedings of 8th IEEE International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM 2023 in **January-June 2023**, doi: [10.1109/ICONSTEM56934.2023.10142934](https://doi.org/10.1109/ICONSTEM56934.2023.10142934).
- K. Chokkanathan, Department of CSE-AI presented a paper titled “Prediction of Chronic Kidney Disease from Patient Record Using Ensemble Ranking SVM” in AIP Conference Proceedings in **January-June 2023**, doi: [10.1063/5.0126114](https://doi.org/10.1063/5.0126114).
- Basabi Chakraborty, Department of CST presented a paper titled “Prediction of Particulate Matter (PM2.5) Across India Using Machine Learning Methods” in Lecture Notes in Networks and Systems in **January-June 2023**, doi: [10.1007/978-981-19-6634-7\\_38](https://doi.org/10.1007/978-981-19-6634-7_38).
- T Madhu Midhan; Padma Selvaraj; M Harshavardan Kumar Raju; M Bhanu Prakash Reddy; T Bhaskar, Department of CST presented a paper titled “Classification of Mental Health and Emotion of Human from Text using Machine Learning Approaches” in 2023 6th International Conference on Information Systems and Computer Networks, ISCON 2023 in **January-June 2023**, doi: [10.1109/ISCON57294.2023.10111973](https://doi.org/10.1109/ISCON57294.2023.10111973).
- Madhu Midhan T; Kalepalli Devika; R Rajakumar; Manikandan R; Dinesh K; M Sreedevi, Department of CST presented a paper titled “A Review on Machine Learning Based IDS Approaches in Wireless Sensor Networks” in 2023 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023 in **January-June 2023**, doi: [10.1109/ICACCS57279.2023.10112982](https://doi.org/10.1109/ICACCS57279.2023.10112982).
- Praveena Narayanan; Yadlapalli Lokesh; P. Charitha; G.Chethan Teja Kumar; B. Bhavya; S. Hemalatha, Department of CST presented a paper titled “Design of Secure QR Payment System Using Visual Cryptography Method” in 2023 International Conference on Computer Communication and Informatics, ICCCI 2023 in **January-June 2023**, doi: [10.1109/ICCCI56745.2023.10128604](https://doi.org/10.1109/ICCCI56745.2023.10128604).



## Conference Papers

- Adnan Abbasi, Department of Mathematics presented a paper titled “On Prime Ideals with Generalized Derivations in Rings with Involution” in Contemporary Mathematics in **January-June 2023**, doi: [10.1090/conm/785/15785](https://doi.org/10.1090/conm/785/15785).
- Prem Knowles, Department of MBA presented a paper titled “Improvised Ensemble Model for Fast Prediction of DoS/DDoS Attacks in Various Networks” in 2023 1st International Conference on Cognitive Computing and Engineering Education, ICCCEE 2023 in **January-June 2023**, doi: [10.1109/ICCCEE55951.2023.10424447](https://doi.org/10.1109/ICCCEE55951.2023.10424447).

## Book Chapters Published

- Nehru Kandasamy, Assistant Professor, Department of ECE published a Book Chapter titled “Multiple Lung Disease Prediction Using X-ray Images Based on Deep Convolutional Neural Networks” in Machine Learning and Deep Learning Techniques for Medical Image Recognition in **January-June 2023**, doi: [10.1201/9781003366249-2](https://doi.org/10.1201/9781003366249-2).
- Nehru Kandasamy, Assistant Professor, Department of ECE published a Book Chapter titled “Face Mask Detection and Temperature Scanning for the COVID-19 Surveillance System Based on Deep Learning Models” in Machine Learning and Deep Learning Techniques for Medical Image Recognition in **January-June 2023**, doi: [10.1201/9781003366249-12](https://doi.org/10.1201/9781003366249-12).
- Nehru Kandasamy, Assistant Professor, Department of ECE published a Book Chapter titled “Classification of Melanoma Skin Cancer Based on Transformer Deep Learning Model” in Ecological and Evolutionary Perspectives on Infections and Morbidity in **January-June 2023**, doi: [10.4018/978-1-7998-9414-8.ch009](https://doi.org/10.4018/978-1-7998-9414-8.ch009).
- Kalpana R, Assistant Professor, Department of CSE published a Book Chapter titled “Legendre Neural Network Method for Solving Nonlinear Singular Systems” in Intelligent Technologies for Sensors: Applications, Design, and Optimization for a Smart World in **January-June 2023**, doi: [10.1109/ICCCEE55951.2023.10424447](https://doi.org/10.1109/ICCCEE55951.2023.10424447).
- Kalpana R, Assistant Professor, Department of CSE published a Book Chapter titled “The Future of Web Crowdfunding: An Ethereum Blockchain Approach” in Intelligent Technologies for Sensors: Applications, Design, and Optimization for a Smart World in **January-June 2023**, doi: [10.1109/ICCCEE55951.2023.10424447](https://doi.org/10.1109/ICCCEE55951.2023.10424447).
- Karthikeyan N, Assistant Professor, Department of CSE published a Book Chapter titled “Quantum Computing: Future of Artificial Intelligence and Its Applications” in Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers in **January-June 2023**, doi: [10.1515/9783110791402-009](https://doi.org/10.1515/9783110791402-009).
- K. Sudhakar, Assistant Professor, Department of CSE published a Book Chapter titled “Cloud Computing Principles for Optimizing Robot Task Offloading Processes” in AI-Enabled Social Robotics in Human Care Services in **January-June 2023**, doi: [10.4018/978-1-6684-8171-4.ch007](https://doi.org/10.4018/978-1-6684-8171-4.ch007).
- Sathish K, Assistant Professor, Department of CSE published a Book Chapter 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: Volume 2 in **January-June 2023**, doi: [10.1201/9781032684994-13](https://doi.org/10.1201/9781032684994-13).
- G. Arunkumar, Assistant Professor, Department of CSE published a Book Chapter titled “Internet of Things and Machine Learning for Transportation Systems Using Adaptive Enhanced K-Nearest Neighbor Algorithm” in Underwater Vehicle Control and Communication Systems Based on Machine Learning Techniques in **January-June 2023**, doi: [10.1201/9781003320074-5](https://doi.org/10.1201/9781003320074-5).



## Book Chapters Published

- Yousuff M, Assistant Professor, Department of CSE published a Book Chapter titled “Blockchain for Transaction of Large-Scale Clinical Information” in Blockchain for Healthcare 4.0: Technology, Challenges, and Applications in **January-June 2023**, doi: [10.1201/9781003408246-13](https://doi.org/10.1201/9781003408246-13).
- Mohamed Yousuff, Assistant Professor, Department of CSE published a Book Chapter titled “Potential of Blockchain in Disease Surveillance” in Blockchain for Healthcare 4.0: Technology, Challenges, and Applications in **January-June 2023**, doi: [10.1201/9781003408246-7](https://doi.org/10.1201/9781003408246-7).
- Yousuff M, Assistant Professor, Department of CSE-AI published a Book Chapter titled “Sharing and Interpretation of Genomic Datasets Using Blockchain” in Blockchain for Healthcare 4.0: Technology, Challenges, and Applications in **January-June 2023**, doi: [10.1201/9781003408246-14](https://doi.org/10.1201/9781003408246-14).
- Ganga D.S.V.S., Assistant Professor, Department of CSE-CS published a Book Chapter titled “Introduction to Graph Neural Networks: Types and Applications” in Concepts and Techniques of Graph Neural Networks in **January-June 2023**, doi: [10.4018/978-1-6684-6903-3.ch003](https://doi.org/10.4018/978-1-6684-6903-3.ch003).

## Patents Published

- Dr. T. S. Sivarani, Dr. K. Lakshmi khandan, Dr. G. Soorya Priya, Dr. B. Suresh Babu, Dr. S. Saravanan, Dr. K. Karthikumar, Dr. R. Azhagumurugan, Faculty of MITS published a patent on “Power Distribution System Planning For Smart Grid Applications using ANN” in **January 2023**. Patent No: [202341001951](https://patent.gov.in/202341001951).
- R Kiran Kumar, Dr. S. Shiyamala, G Nagaswetha, G Reddy Hemantha, B. Bhaskar, Dr. S Rajasekaran, T. Manivannan, V Vamsikrishna Muvvala, Dr. Kumar. C, B Karthik, B Subbarayudu, G Charan Kumar, K Manjupreetham, Faculty of MITS published a patent on “Design and Performance of Charge-Plasma-Based Schottky-Fet CMOS Circuit Ring Oscillator for High Density ICS” in **January 2023**. Patent No: [202341000087](https://patent.gov.in/202341000087).
- KF Bharati, Suman Dahiya, Manjula Prabakaran, Dr. Riyaz Ahmed Qureshi, Indu Bala, Ramesh Pandharinath Daund, Dr. V.Savitha, Dr D J Samatha Naidu, Dr. V. Priya, Ms. Jagriti Gupta, Dr. Vijay Kumar Salvia, Mohd Asif Shah, Faculty of MITS published a patent on “Implementing Artificial Intelligence-Based Techniques for Social Media Marketing Analytics with Potential uses Expectations” in **February 2023**. Patent No: [202341008062](https://patent.gov.in/202341008062).
- Dr. A.Karthickkumar, Dr. Manthan S. Manavadaria, Dr.R.Gopi, Manjula Prabakaran, Dr. Anjan Kumar, Pralhad teggi, Durai Murugan A, Dr. Prasad Baban Dhore, Dr. Lalit kumar Wadhwa, VIMAL KASHYAP, Dr. A. Sasi Kumar, Mohd Asif Shah, Faculty of MITS published a patent on “Internet Of Things Based Deep Learning Model to Recognize and Predict Kidney Disease using Image Processing ” in **March 2023**. Patent No: [202341011082](https://patent.gov.in/202341011082).
- Dr. B. Adithya, Mrs. E. Swapna, Dr. N. Praveena, Dr. G. Balamurugan, Mr. J. Ranjith, Faculty of MITS published a patent on “Blockchain using Smart Parking System” in **April 2023**. Patent No: [379250-001](https://patent.gov.in/379250-001).
- Prof. Muppa Lakshmana Rao, Faculty of MITS published a patent on “Multipurpose Crank slot sprayer” in **April 2023**. Patent No: [365810-001](https://patent.gov.in/365810-001).
- Dr. Mohammed Azam, Dr. Shiena Shekhar, Dr. Harshit Bhavsar, Sivasubramanian Palaniswamy, Dr. Nagabhooshanam Nagarajan, Dr. Anantha Raman Lakshmi pathi, Faculty of MITS published a patent on “Automated Headlight Intensity Controller for Bike” in **April 2023**. Patent No: [6275188](https://patent.gov.in/6275188).



## Patents Published

- Dr. A. Chandrashekhara, Dr. Hemangi A. Raut, Dr. Sathish S. Salunkhe, Dr. Sai Ram Inkolu, Dr. N. Nagabhooshnam, Dr. L. Anantha Raman, Faculty of MITS published a patent on “Battery Pack for Electric Vehicle” in May 2023. Patent No: [381042-001](#).
- Dr. Cephas A. Vanderhyde, Dr.K. Hema Latha, Dr. D. Sendil Kumar, Dr. Gokul Raghavendra Srinivasan, Dr. N. Nagabhooshnam, Dr. L. Anantha Raman, Faculty of MITS published a patent on “Hydrogen Fuel Bike” in May 2023. Patent No: [381139-001](#).
- Gunawan Widjaja, Dr. K. Hema Latha, Dr. Supriya. S, Dr. T. Coumaressin, Dr. N. Nagabhooshnam, Dr. L. Anantha Raman, Faculty of MITS published a patent on “Air and Water Quality Identifying Pen” in May 2023. Patent No: [382157-001](#).
- Dr. K. Arul Kumar, Dr. A. V. Pavan Kumar, Dr. Kamal Basha, Faculty of MITS published a patent on “Mobile & Solar Energy Generator” in May 2023. Patent No: [202341034414](#).
- Gunawan Widjaja, Dr. Pavithra M. K. S, Nithin. V. K, Dr. M. Sridharan, Dr. N. Nagabhooshnam, Dr. L. Anantha Raman, Faculty of MITS published a patent on “Milk Quality Analysing Device” in May 2023. Patent No: [382160-001](#).
- C. Praveen, Mr. P . Firoze Khan, E.Nandini, V.Pennidhi, K. Naga Pavan Kumar Reddy, Faculty of MITS published a patent on “Intrusion Detection in Software Defined Network using Machine Learning” in June 2023. Patent No: [202341032262](#).

## Research Projects Sanctioned

- Dr. I. Arun, Associate Professor, Department of Mechanical Engineering, worked on “Workshop on Defence Research and Innovation Summit - 2023” under SERB, with a grant of ₹2,40,000.00. [Ref No. SSY/2023/000093](#).
- Dr. S. Sreedhar, Professor, Department of Physics, worked on "Nanofabrication of ferroelectric multi-layered thin films based on BTO, BFO, and Hf(Zr)O<sub>2</sub> for integration into semiconductor electronic and photonic device applications" under UGC-DAE CSR, with a grant of ₹1,50,000.00. [Ref No. CRS/2022-23/01/691](#).
- Dr. Mahesh G B, Assistant Professor, Department of Civil Engineering, received funding for "Manufacturing of Green Leather from Coconut Water" through MSME IDEA Hackathon 2.0, with a grant of ₹15,50,000.00. [Ref No. 17\(2\)/MSME innovative/PMAC/2021-22](#).
- Dr. Sharwan Ram, Associate Professor, Department of ECE, received funding for the project "Unmanned Aerial System for Acquisition of Crime Evidences" through MSME IDEA Hackathon 2.0, with a grant of ₹9,73,000.00 [Ref No. 17\(2\)/MSME innovative/PMAC/2021-22](#).
- Dr. S. Baskaran, Associate Professor, Department of MEC, and Dr. R. Prithivi Rajan, Assistant Professor, Department of MEC, organized a Faculty Development Program (FDP) on "Contemporary Progressions, Challenges, and Issues in Metal 3D Printing Technology" under JNTUA-FDP, with a grant of ₹88,000.00 [File No. SCHEJNTA/566/2023-JNTUA-EHE73](#).

## NSS Activities/ Community Service Programs

- NSS-MITS organized a one-day event on “**National Youth Day**” to honour Swami Vivekananda’s birthday, inspiring young minds with his teachings. The event witnessed active participation with 50 attendees on **12.01.2023**.
- The NSS Cell conducted an awareness program on “**National Voters Day**” to encourage young voters to actively engage in the democratic process, with 50 participants in attendance on **25.01.2023**.
- The NSS Cell celebrated “**Republic Day**” on **26.01.2023**, highlighting the significance of the Indian Constitution and its role in shaping the nation, with 50 participants.



- A special event on “**World Radio Day**”, was organized by the NSS Cell with the theme "Radio and Peace," emphasizing the role of radio in promoting harmony with 45 participants on **13.02.2023**.
- The NSS Cell organized an event on “**National Science Day**” to honour the contributions of C.V. Raman, fostering curiosity and enthusiasm for science among the attendees on **28.02.2023**.
- The NSS Cell marked **International Women’s Day** on **07.03.2023** with a program promoting gender equality and women's empowerment. The event engaged 120 participants in discussions on key social issues.



- The NSS Cell conducted an awareness program on “**World Water Day**” to highlight the importance of water conservation and the global water crisis, with 50 participants on **22.03.2023**.
- The NSS Cell at MITS organized an event on “**Ambedkar Jayanti**” to pay tribute to Dr. B.R. Ambedkar’s legacy, commemorating his birth anniversary with 25 attendees on **14.04.2023**.



- A **Blood Donation Camp** was conducted by the NSS Cell in collaboration with the Rotary Club and Red Cross Society, collecting **156 units of blood**, with 15 NSS volunteers facilitating the event on **17.04.2023**.
- Another **Blood Donation Camp** was held in association with the Lions Club, where **154 units of blood** were donated, supported by 15 volunteers on **27.04.2023**.



## NSS Activities/ Community Service Programs

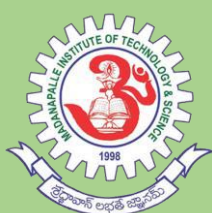


- NSS Cell organized a one-day event on “**National Technology Day**” to inspire students towards technological innovation and advancements in science and technology, with 50 participants on **11.05.2023**.
- The NSS Cell hosted a “**Delegation Meet**” with 150 participants to welcome new volunteers and bid farewell to outgoing final-year students on **26.05.2023**.

- An event on “**World Environment Day**” was conducted by NSS Cell to promote environmental awareness and sustainable practices, engaging **50 participants** in discussions and activities on **05.06.2023**.



- An awareness program on “**World Food Safety Day**” was organized by the NSS, educating **50 attendees** on food safety standards and best practices on **07.06.2023**.
- The NSS Cell hosted a session on “**International Yoga Day**” with 150 attendees by highlighting the benefits of yoga, where participants engaged in yoga practice and discussions on **21.06.2023**.



**Madanapalle Institute of Technology & Science**

Post Box No: 14, Kadiri Road

Angallu (V), Madanapalle-517325

Annamayya District, Andhra Pradesh, India

+91-8571-280255; 280706

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

