



DR. M.S. RAMAIAH



RAMAIAH
Institute of Technology

ಸಂಪಿಗೆ

Sampige

Volume 13 : No. 1

January - March 2025

A quarterly News Bulletin

Chief Editor

Dr. N.V.R. Naidu
Principal

Editor

Dr. B.M. Nagabhushana
Professor, Dept. of Chemistry

Editorial Board

Dr. S.H.C.V. Subba Bhatta
Professor, Dept. of Mathematics

Dr. Ahalya N

Associate Professor,
Dept. of Biotechnology.

Dr. Udayakumar H.M

Assistant Professor,
Dept. of Humanities

Mr. Nandeesh H.L

Assistant Professor,
Dept. of Mechanical

From the Editorial Board

Greetings,



It gives me immense pleasure to connect with all our esteemed readers of Sampige, the quarterly news bulletin of Ramaiah Institute of Technology. This publication serves as a vital platform to keep the college community and the larger public informed about the latest developments, events, and achievements of our institution.

I am delighted to share that we continue to organize a variety of meaningful academic activities. Every effort has been made to collect and present comprehensive updates from each department, highlighting their accomplishments and

initiatives. We remain committed to ensuring that Sampige continues to be an effective and engaging communication tool.

I would like to express my sincere appreciation to all our faculty and staff for their valuable contributions toward making this bulletin informative and impactful.

As always, Sampige welcomes your suggestions and feedback to help us serve you better.

With best wishes

Dr. N. V. R. Naidu

Friends,



It gives us immense pleasure, joy, and satisfaction to present the first issue of Sampige, the quarterly news bulletin of the Ramaiah Institute of Technology for the year 2025.

This edition highlights the significant achievements of our faculty and students, reflecting the vibrant academic and co-curricular life of our institution. The Editorial Board extends its heartfelt gratitude to all the Heads of Departments and Section Heads for their valuable contributions in bringing this issue to life.

The continued success of Sampige depends on your encouragement and feedback. We warmly welcome your suggestions for improving future editions and look forward to your continued support in the upcoming issues.

With best wishes

Dr. B. M. Nagabhushana

Contents

Institutional Activities

Departmental Activities

Training & Placement

**Department of Extra
Curricular Activities**

Sports

New Appointments

RAMAIAH INSTITUTE OF TECHNOLOGY

VISION OF THE INSTITUTE

To be an Institution of International Eminence, renowned for imparting quality technical education, cutting edge research and innovation to meet global socio-economic needs.

MISSION OF THE INSTITUTE

RIT shall meet the global socio-economic needs through

1. Imparting quality technical education by nurturing a conducive learning environment through continuous improvement and customization.
2. Establishing research clusters in emerging areas in collaboration with globally reputed organizations.
3. Establishing innovative skills development, techno-entrepreneurial activities and consultancy for socio-economic needs.

QUALITY POLICY

We at Ramaiah Institute of Technology, strive to deliver comprehensive, continually enhanced, global quality technical and management education through an established Quality Management System complemented by the synergistic interaction of the stakeholders concerned.

RANKED

#75

*Among 1463 Reputed
Engineering Institutes
in India*

#21

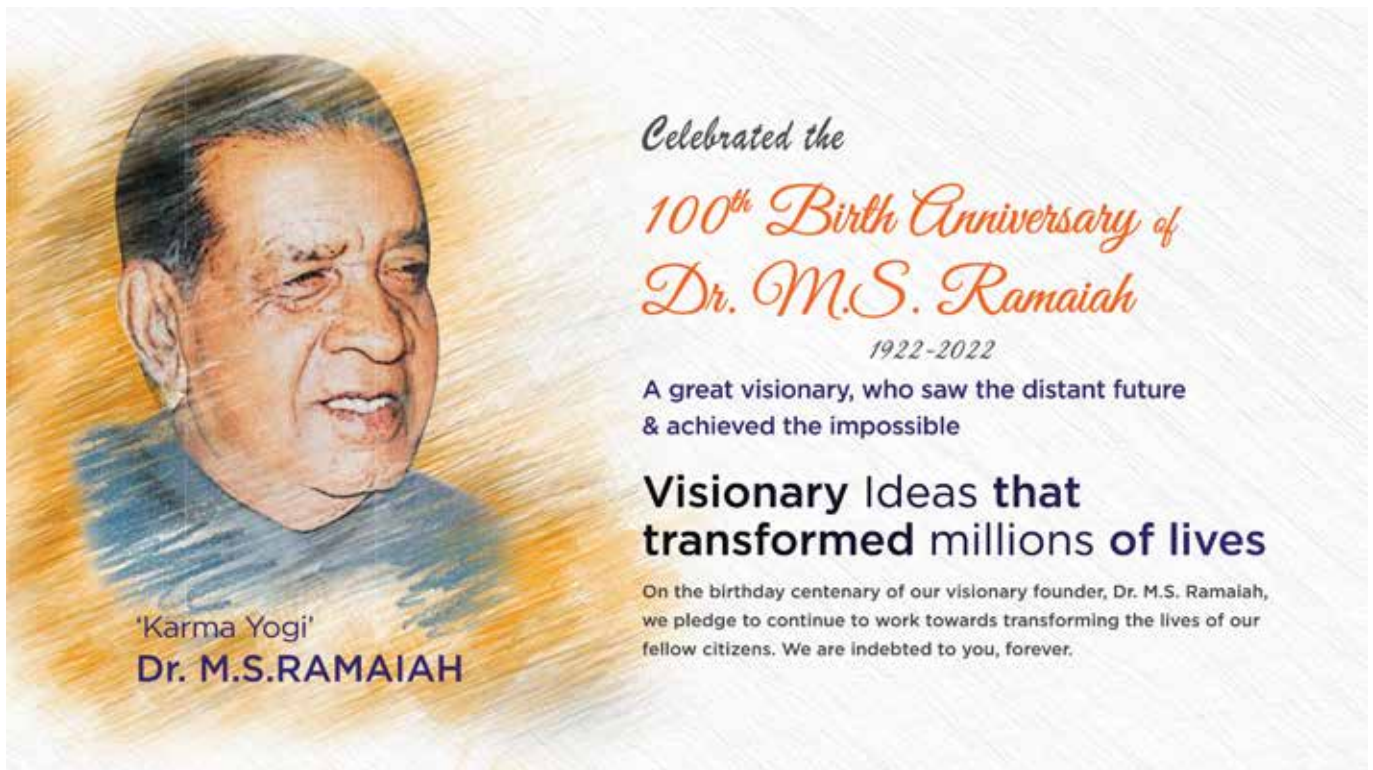
*Among 115 Reputed
Schools of Architecture
in India*



- As per National Institutional Ranking Framework, MoE, Govt. of India. 2024

Dr. M.S. Ramaiah (1922 - 1997)

Founder Chairman, Gokula Education Foundation



We offer our humble tributes to our venerable founder Chairman late Dr. M S Ramaiah, a renowned philanthropist, educationist and visionary who Established the Gokula Education Foundation in 1962 and M S Ramaiah Institute of Technology (MSRIT) was started in the same year envisioning the need for quality technical education towards taking India ahead.

MSRIT has celebrated the centenary birth anniversary of founder chairman Dr. M S Ramaiah and Diamond Jubilee year of M S Ramaiah Institute of Technology (MSRIT) during 2022-23. At this juncture, we at MSRIT reiterate our commitment to creating world-class technical professionals who strongly reflect the universal human values of integrity, honesty, and character as they go on to contribute to the nation and the world at large.

REPUBLIC DAY



- Republic Day was celebrated at Ramaiah Institute of Technology on 26th January 2025 with great enthusiasm and patriotic spirit. The national flag was hoisted by Dr. M. R. Seetharam, Hon'ble Vice Chairman, GEF & Director, Ramaiah Institute of Technology. The event was graced by the presence of Dr. Parswanath H. V., Chief Executive, GEF (Engineering & General Sciences); Sri G. Ramachandra, Chief of Finance, GEF; Dr. N. V. R. Naidu, Principal, RIT, Dr. Pradip Kumar Dixit, Vice Principal, RIT; Dr. Archana, Registrar – Academics, RIT; Sri Mahadev Kokkari, Registrar – Administration, RIT; and the Principals of all GEF institutions.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



- Conducted a workshop on 'Hands-on Training on Smart Building Automation Solutions (With KNX-Enabled Schneider Devices)'. An overview of home automation systems and their role in modern smart buildings. The following topics are discussed in the workshop : Introduction to KNX-based automation and its advantages over conventional control systems. Hands-on demonstration of ETS (Engineering Tool Software) used for configuring KNX devices, Practical implementation of automation scenarios such as lighting control, HVAC integration, and security systems. Date 10th – 14th Feb 2025

Publications in (National / International) Journals

- Mamatha G.M, Pradipkumar Dixit, R. Hari Krishna, Girish Kumar S** – 'Unveiling the potential of PVDF@LaFeO₃ based flexible composite films towards high performance broad band EMI shielding', *Materials Technology*, Vol. 40 No. 1, (2025), pp 1–18.
- S. Poornima**, Kusumika Krori Dutta – 'Nonlinearity in Memristor Materials - A Review', *Journal of metals, mines and fuels*, Vol. 71 No. 12D, (2025), pp 169-174.
- Diana F. R. I. M., R. Subha**, M. Selvadass – 'Machine Learning based Prediction of Production using Real Time Data of a Point Bottom Sealing and Cutting Machine', *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 37 No. 2, (2025), pp 1376-1386.
- B. R. Nayana, R. Subha**, Rekha Radhakrishnan and P. Geethanjali – 'Scalable bearing fault diagnosis using metaheuristic feature selection and machine learning for diverse operating conditions', *Systems*

Science & Control Engineering, Vol. 13 No. 1, (2025), pp 1-15.

- R Subha**, M Diana FRI, M Selvadass – 'Real-Time Data-Driven Estimation of Production for Point Bottom Sealing and Cutting Machines Using Machine Learning, Systems and Soft Computing', Vol. 7, (2025), pp 1-8.

Paper presentation in National / International Conferences

- Abhinav Singh**, Victor George, Dawnee Soman, **Archeet Shekhar, Aishwary Gupta, Ash Hinger** – 'Automated Darting Point Identification System, International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) 2025, Bengaluru, 16th – 17th Jan 2025.
- S. Poornima, Ankit Kumar, Rajat Bharati, Vaibhav Bharadwaj, Aman Anand** – 'Rail Guard: Intelligent Rail Inspection using YOLOv3', 4th International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET) 2025, Patna, 21st – 23rd Nov 2024.
- R. Subha**, Rekha Radhakrishnan, M. Selvadass – 'Deep Learning Based Estimation of Remaining Useful Life of Bearing Using Time Frequency Spectrogram, International Conference on Business Intelligence and Data Analytics (BIDA) 2025, Singapore, 6th – 7th April 2024.

Guest Lecture/s Invited

- Mr. Gautham R**, Senior Director, Engineering, Dover India Innovation Centre, Bangalore – 'EMC Issues in Digital Circuits', on 04-01-2025.

Patents

- Nagaraj C** published the following patents-
 - 'Object Sensing Based Touchless Doorbell System and Method Thereof', 202541001389 A, 17/01/2025.
 - 'A Grid Connected Solar Photovoltaic (PV) System using Hysteresis-Based Voltage and Current Control', 202541002882 A, 24/01/2025.
 - 'Energy Generation System', 202541004475 A, 31/01/2025.

DEPARTMENT OF MECHANICAL ENGINEERING



- Mechanical Engineering students visited Central Manufacturing Technology Institute (CMTI) a Research & Development organization focusing on providing 'Technology Solutions' to the manufacturing sector and assisting technological growth in the country. Students gained valuable exposure to modern industrial practices and real-world engineering applications, enriching their academic and professional understanding. On 26th March 2025,

Publication in (National/International) Journals

- Bijayalakshmi Das, Veeranna B Nasi** - 'Performance Analysis of a Helical Tube Heat Exchanger Using Experimental and Simulation Methods', Tuijin Jishu/ Journal of Propulsion Technology, ISSN: 1001-4055, Vol. 46 No. 1 (2025)
- Pradnya Sameer Deshpande, R Jyothilakshmi, Lalitha Chinmayee H.M, BS Sridhar** - 'Experimental studies on latent heat capacity of hybrid nano-enhanced phase change materials using artificial neural network for energy storage applications', International Journal of Sustainable Energy, Volume 44, Issue 1, pp 2472162, <https://doi.org/10.1080/14786451.2025.2472162>
- Pradnya Sameer Deshpande, R Jyothilakshmi, Srikantha N, Sridhar B S** - 'Investigation of hybrid nano-enhanced phase change materials by experimental evaluation and optimizing thermal performance for energy storage applications', Nano Express, IOP Publishing, Volume 6, Issue 01 5007, pp1-15, <http://doi.org/10.1088/2632-959X/agnb052>.

- Pradnya Sameer Deshpande, R Jyothilakshmi** - 'Comparative Studies on Nano- Enhanced PCM (Ne-PCM) for Solar Energy Storage Applications', Journal of Mines, Metals and Fuels, Volume 71, Issue 12D, pp 1-6, <http://informaticsjournals.co.in/index.php/jmmf/article/view/47987/32013>
- Vishwanath Koti, Asha, P.B, Sharma, S. et al** - 'Fabrication and Wear Characteristics of Al6066-Boron Carbide Particulate Composites', Journal of Inst. Eng. India Ser. D (2025). <https://doi.org/10.1007/s40033-025-00887-w>
- Prabha, S, Raghavendra, S, Vishwanath Koti et al** - 'Fabrication and Investigation of Characteristics of Al2014-B4C Composites Using Liquid Metallurgy Technique', J. Inst. Eng. India Ser. D (2025). <https://doi.org/10.1007/s40033-025-00884-z>
- Ananya Ravikiran, Raji George, K.R.V. Subramanian, Uday S Kallannavar** - 'High energy processing of natural fiber composites', Next Research, Volume 2, Issue 1, 2025, 100113, ISSN 3050-4759, <https://doi.org/10.1016/j.nexres.2024.100113>.
- Jaya Christiyan, K.G, Rajanish, M., Pradeep, K.V. et al** - 'Wear Study of Boron Carbide Particulate Reinforced Aluminium Alloy Composites', J. Inst. Eng. India Ser. D (2025). <https://doi.org/10.1007/s40033-025-00877-y>.
- Bharath V and K R V Subramanian** - 'A review on scalable printing techniques for conductive and composite polymer nanoinks', Advances in Natural Sciences: Nanoscience and Nanotechnology, January 2025, Volume 16, Number 1, DOI 10.1088/2043-6262/ad9ff5

Publication in (National/International) Conferences

- B.B. Jha** - 'Structural alteration and damage evaluation of Thermal Barrier Coatings', 2nd National Thermal Spray Conference- NTSC 2025 during February 21-23, 2025 held at CSIR- Institute of Minerals and Materials Technology, Bhubaneswar, Odisha, India.

Guest Lecture delivered by the department faculty

- Dr. Ashok Kumar K** - 'Literature Review and Variable Identification', at the Faculty Development Program held at Sri Jayachamarajendra (Govt.) Polytechnic, Bengaluru on 17th March 2025.

- **Dr. B.P. Harichandra** – 'Research Design and Questionnaire Design' at the Faculty Development Program titled "Advanced Pedagogy" held at Sri Jayachamarajendra (Govt.) Polytechnic, Bengaluru on 18th March 2025.
- **Dr. Balasubramanya H S** – 'Survey Methods and Sampling at the Faculty Development Program titled "Research Methodology and IPR' held at Sri Jayachamarajendra (Govt.) Polytechnic, Bengaluru on 19th March 2025.
- **Dr. Jyothilakshmi R** - 'Intellectual Property Rights' at the Faculty Development Program titled "Advanced Pedagogy" held at Sri Jayachamarajendra (Govt.) Polytechnic, Bengaluru on 20th March 2025

Achievement/s, Awards/Prizes by Faculty/Staff/Students

- **B.B. Jha**, chaired a technical Session in 2nd National Thermal Spray Conference- NTSC 2025 during February 21-23, 2025 held at CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Odisha, India.
- **Syed Azmaan Ali Madni** (1MS23ME119) 4th - semester Mechanical Engineering student and the top-ranked youth delegate from Chhattisgarh. He represented his state at the Viksit Bharat Young Leaders Dialogue 2025 during the 27th National Youth Festival, held from 10th to 12th January 2025 in New Delhi. He engaged in key discussions with Prime Minister Narendra Modi and other National leaders.

DEPARTMENT OF CIVIL ENGINEERING



- Workshop on Mendeley software was conducted on 6th January 2025, to facilitate the PG students well versed in thesis documentation such that references will be quoted properly. The resource person for

the session was Varsha P, PMRF fellow from IISc, Bangalore.

Publications in National/ International Journals

- **Rao B. S**, Dodamani, P. U – 'Optimization of Pre-Engineered Buildings', Journal of Mines, Metals and Fuels, Vol. (71), (2025), pp 132–138.
- Irukumati S, Vittal A.R, **Gurunarayan S.L** – 'Deciphering Flood Inundation Zones Using Multitemporal SAR Datasets for Central Brahmaputra River Basin', Remote Sensing in Earth Systems Sciences, (2025).
- **Asha M.N**, Suku, L, Babu, G.L.S – 'Shakedown Analysis of Granular Sub-base Behaviour' Geotechnical and Geological Engineering, Vol. (43), (2025), pp 128.
- Deepak G.B, Vinod B R, Raje Gowda, Vinayak Ashok Hosur, **Sumalatha J**, and Nilesh Bhatu Gawali – 'Compaction and Shear Strength Characteristics of Clayey Soil using Cement and Bagasse Ash' International Journal of Innovation Studies, Vol. (9), (2025), pp 56-72.

Guest lecturers- invited

- **Dr. Naveen B P**, Professor of Civil Engineering & Nodal Officer, NCVET National Institute of Technical Teachers' Training & Research, Kolkata – 'Pile Termination Criteria for Rock Socketed Piles in Metro Project', 06-01-2025.
- **Colonel Anil Raj T A**, Joint Director, Technical Planning, Indian Army – 'Durability of Reinforced Concrete Structures', 25-03-2025.

Faculty who obtained Ph.D degree



- **Mr. Santhosh D** - Assistant Professor in the Department of Civil engineering department, has earned a Ph.D. degree (Feb 2025) from Visvesvaraya Technological University, Belagavi, for his thesis entitled: 'Studies on Seismic Performance of Low, Medium, and High-Rise RC Frame with Infills' under the guidance Dr. R Prabhakara, former Professor and Head, Department of Civil Engineering, RIT and Co-Guide Dr. Sumalatha J, Associate Professor, Department of Civil Engineering, RIT, Bengaluru.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



- A five-day FDP on 'Next-Gen Innovation with RISC-V: Design and Applications', was conducted by the department from 3rd March to 7th March 2025. This FDP aimed to empower faculty with cutting-edge knowledge in open-source computing, processor design and embedded systems, aligning with industry trends and academic excellence.

Publications in (National / International) Journals

- Bharath. V, **Sujatha B. Reddy** – 'Synergistic Electromagnetic Shielding Performance of Ni@Co, GNPs, and CNTs in Polymer Nanohybrids for Stealth Applications', Polymer-Plastics Technology and Materials, (2025), pp. 1-21.
- Rashmi Priyadarshini B.K., Anil Kumar H. L., **Rajendra Prasad P.**, Saikethika K., Malavika S – 'A High Bandwidth X Band Monopulse Comparator for Tracking Radio Detection and Ranging', Microwave and Optical Technology Letters, Vol. 67, No. 4, (2025), pp.1-7
- **Shipra Upadhyay**, Amit Kumar Pandey, Shailendra Kumar, Shivendu Mishra – 'Power efficient and area optimized advanced encryption standard-based cipher for improved cyber security', Journal of Cyber Security Technology, (2025), pp. 1-25
- Gowda N Yashaswini, R.V. Manjunath, B Shubha, **Punya Prabha V**, N Aishwarya, H M Manu – 'Deep learning technique for automatic liver and liver tumor segmentation in CT images', Journal of Liver Transplantation, Vol. 17, (2025), 100251
- Roopa Hegde R, **Punya Prabha V**, **Shipra Upadhyay**, Krishna S B – 'Modeling and simulation of carbon-nanocomposite-based gas sensors', Beilstein J Nanotechnol, Vol. 16, (2025), pp. 90-96

Paper presentation in National / International Conferences

- R. Shobha, **S. Sethu Selvi**, M. S. Chowdary, Prathusha N, Vidath N and H. K. Omkumar – 'Dynamic Demand Forecast Dashboard – A Machine Learning based Quick Commerce Model', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, 2025, pp. 1-6
- **Lakshmi Shrinivasan**, **Reshma Verma**, Deepali Koppad and Megha R – 'Development of Verification Environment for I2C Serial Communication Protocol using UVM', 5th IEEE Global Conference for Advancement in Technology (GCAT), Bangalore, 2024, pp. 1-5
- **Punya Prabha V** & Nandeesh M D, Tejaswini S – 'Detection of COVID-19 based on Deep Learning', 2nd International Conference on IoT, Communication & Automation Technology, Goakhpur, pp. 408-413, 2025
- **Rajendra Prasad P**, **S. V. Chakrasali**, **M. Nagabushanam**, **V. Nuthan Prasad** and S. H. N – 'Design and Implementation of Delta-Sigma Modulator using Simulink', Global Conference on Communications and Information Technologies (GCCIT), Bangalore, 2024, pp. 1-5
- **Rajendra Prasad P**, K. Singh, S. Satyarthi, P. Pandey and P. Jyotishi – 'IoT based Drowsiness Detection with Automated Vehicle Control', Global Conference on Communications and Information Technologies (GCCIT), Bangalore, 2024, pp. 1-6
- **Rajendra Prasad P** and Navaneeth N – 'Low-Cost Secure Information Transmission Using Cryptography Multi-Layer Algorithm', Global Conference on Communications and Information Technologies (GCCIT), Bangalore, 2024, pp. 1-6

Guest Lecture/s – Invited

- **Nagesh B R**, Manager, Software Configuration and Release, Intel, Bangalore – 'RISC-V Scalability and Possibilities' on 06-03-2025
- **Dr. Viveka K R**, DESE, IISc, Bangalore – 'Energy-Efficient Computation for Machine Learning Workloads' on 22-03-2025

Funded Projects

- **Dr. V Nuthan Prasad** – 'Metamaterial: driven microwave antenna design for early diagnosis of brain stroke patients', RIT Research Seed Fund for Faculty, Rs. 6.5 Lakhs for a duration of 2 years
- **Dr. Lakshmi Shrinivasan** – 'Prediction of Quality of Eggs for Sustainable Farming', RIT Research Seed Fund for Faculty, Rs. 1.84 Lakh.

Achievements, Awards/Prizes by Faculty and students

- **Dr. Rajendra Prasad P** was Session chair for the 3 IEEE International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics, January 16 - 17, 2025 organized by BNM Institute of Technology, Bangalore. Also, he was Session chair for the International Conference on Global Synergies: Innovations in Business, Technology, and Education at Bangalore Integrated Management Academy (BIMA) on 21-22 March, 2025.
- **Dr. B. Sujatha** guided UG students Shreya Chakravarthy, Shruthi Sriram, Thomas V Philip, Yashawini M for the project titled 'Design of Phased Array Antenna Systems for Radar Application' to secure RIT Student Seed Fund.
- **Dr. C.G. Raghvendra** guided UG students Allamaprabhu, Mahantesh M B, Sanket, Shreyas for the project titled 'Applying Multi- Frequency Band analysis for Queen Bee Identification in BeeHives Systems' to secure RIT Student Seed Fund.
- **Dr. Chitra M** guided UG students Jaseema Feroze, Sahana Dolli, Sanskriti Sahu, Tvisha Prasad for the project titled 'Recognition of Advanced cryptographic algorithm using machine learning' to secure RIT Student Seed Fund.
- **Dr. Rajendra Prasad P** guided PG student Sampreeth S J for the project titled 'Deep Neural Network Approach lane detection for FPGA Hardware acceleration in Autonomous Vehicles' to secure RIT Student Seed Fund.
- **Dr. Lakshmi Shrinivasan** guided PG student Shreelakshmi Parvartikar for the project titled 'Power, Performance, Area Analysis of Sensor data fusion for ADAS using Deep Learning Techniques' to

secure RIT Student Seed Fund.

- **Dr. Imaculate Rosaline** guided UG students Shreyansh (1MS21EC107), Tushar Kaushik (1MS21EC125), Umang Sonthaliya (1MS21EC127), Gaurav Singh (1MS21EC049) for the project titled 'Underwater Plastic Detection and Congestion Detection Using Deep Learning' to secure MSRITAA Project Fund.
- **Dr. Suma K V** guided PG student Shiva M C Mahan S (1MS23LVS15) for the project titled 'Histopathology Whole Slide Image Classification for Ovarian Cancer Using Deep Learning' to secure MSRITAA Project Fund.
- **Mrs. Pavitha U S** guided UG students Achuta Mohan (1MS21EC006), Niharika R (1MS21EC071), Nisarga S (1MS21EC072), Jethro Samuel (1MS21EC063) for the project titled 'Voice-Controlled Moving Robot for Smart Surveillance' to secure MSRITAA Project Fund.
- **Dr. Flory Francis** guided PG student Manjunatha Ramappa Dodamani (1MS23LEC10) for the project titled 'Butler Matrix based Beamforming Techniques for Array Antenna' to secure MSRITAA Project Fund.
- **Dr. C G Raghavendra** guided UG students Mahantesh Mallikarjun Bandi (1MS21EC061), Shreyas A R (1MS21EC108), Allamaprabhu Basalinga Mugalkhod (1MS21EC014), Sanket Umesh Gontmar (1MS21EC096) for the project titled 'Queen Honey Bee Detection using Sound Frequency Analysis' to secure KSCST Project Fund.
- **Siddhant Rajendra Chougale** (1MS24EC072-T), Winner of IEEE Intra-Execom Hackathon, on 09-03-2025
- **Ilaqquan Rajesh Indu** (1MS22EC050), Keerthy Vasan (1MS22EC056) and Gaurav Singh (1MS22EC157) won First Prize in the event 'Wavequest' conducted by Department of ECE and IEEE SPS chapter during RIT TechFest 2025 on 28-03-2025
- **Taejaswinee P J** (1MS22EC136) and **Tanvi Subramanya** (1MS22EC137) won Third Prize in the event 'Zenith' conducted by Department of Mechanical Engineering, during RIT TechFest 2025 on 28-03-2025

DEPARTMENT OF CHEMICAL ENGINEERING



- The Faculty Development Program (FDP) on 'Integrating AI Tools in Engineering Research', scheduled from 3rd February 2025 to 8th February 2025, is a collaborative initiative by the Department of Chemical Engineering and the Department of Computer Science & Engineering (AI & ML and Cybersecurity). The FDP was focused on a wide range of AI applications in research, including automated literature reviews, AI-assisted data visualization, cybersecurity tools, research workflow automation, and graphical abstract generation for academic publishing.

Publications in (National/International) Journals:

- Sravanthi Veluturla**, Saranya Ravi - 'Process Intensification Strategies for the Production of Biodiesel— A Review', ChemBioEng Reviews, H index 48, Q1, Impact Factor: 6.2 March 2025, <https://doi.org/10.1002/cben.70004>, Wiley.
- Raunak Gupta, Ranjeet Kumar Mishra, **D Jaya Prasanna Kumar**, Sampath Chinnam, Abhishek Sharma, and Kaustubha Mohanty - 'Sustainable valorization of bamboo sawdust via catalytic pyrolysis into renewable liquid fuel and value-added chemicals', Engineering Research Express, 015014, March 2025, <https://doi.org/10.1088/2631-8695/adc0e8>, IOP.
- Yash Mishra, **D Jaya Prasanna Kumar**, Ranjeet Kumar Mishra, Vineet Kumar, Naveen Dwivedi - 'Thermocatalytic pyrolysis of plastic waste into renewable fuel and value-added chemicals: A review of plastic types', operating parameters and upgradation of pyrolysis oil, Water-Energy Nexus,

8, 55-72, March 2025, <https://doi.org/10.1016/j.wen.2025.03.002>, Elsevier.

- Damu V. Rupnar, Hemraj M. Yadav, **A.V.S.L. Sai Bharadwaj**, Pradip B. Sarawade, Niranjana S. Ramgir, Gajanan S. Ghodake, Bharat G. Pawar - 'Fabrication and evaluation of carbon black of waste Tyre-derived activated carbon electrodes for enhanced supercapacitor performance', Carbon Trends, 100489, February 2025, <https://doi.org/10.1016/j.cartre.2025.100489>, Elsevier.
- A.V.S.L. Sai Bharadwaj**, Ripsa Rani Nayak, Bharat Govind Pawar, J Koteswararao, Chinnam Sampath, Baburao Gaddala, Navneet Kumar Gupta - 'Environmental life-cycle assessment and green principles in process intensification: A review of novel catalysts from solid waste', Chemical Engineering & Processing: Process Intensification, , 110208, February 2025 <https://doi.org/10.1016/j.cep.2025.110208>, Elsevier.
- A.V.S.L. Sai Bharadwaj** and Navneet Kumar Gupta – 'An overview of the potential utilization of solid acid catalysts for enhanced biodiesel production through hydrodynamic cavitation assistance': A mini-review, Canadian Journal of Chemical Engineering, January 2025, DOI: 10.1002/cjce.25634, Wiley.
- D. Sharmistha, M. Prabha, **R.R. Siva Kiran** & H. Ashoka – 'Enhanced in silico QSAR-based screening of butyrylcholinesterase inhibitors using multi feature selection and machine learning', SAR and QSAR in Environmental Research, February, 2025, DOI: 10.1080/1062936X.2025.2466020, Taylor & Francis.

Paper Presentation in National/International Conference:

- S K, Raveena Shriniwas Sudhakar Magar & M. Tejaswar Reddy, Vishwa** – 'Harnessing Graphite Carbon Nitride Photo Catalyst to Treat Textile Industrial Effluent', MVJ College of Engineering in collaboration with INAE Bangalore Chapter Feb 2025. Secured 1st place and a cash prize of Rs. 10,000 in the category of Oral Presentation.

Guest Lecture/s – Invited:

- Mrs. Soujatha R**, CEO, Beyond Borders Bangalore - 'Overseas Studies for Masters and Ph.D', on 20th December 2024.

- **Dr. Naveen V**, CSIR-NAL – 'Self-healing polymers in Aerospace applications', and other topic 'Career opportunities for Chemical Engineers', on 22nd November 2024.
- **Dr. Chinta Shankar Rao**, Professor NIT Surathkal - 'Artificial Intelligence in Chemical Engineering' on 04th October 2024.

Guest Lecture/s – delivered by department faculty

- **Dr. Vinay Srivastava** – 'Desalination science Engineering Technology and Water Management', Infra Services Vashi, Navi Mumbai on 21.03.2025.

Funded Project

- **Dr. G.M. Madhu** - 'Design and development of CQD/ ZrO_2 nanocomposite material for electrochemical sensing of glucose'. Student project. Budget - Rs. 46000/-
- **Dr. G.M. Madhu** – 'Evaluation of cost-effective and efficient materials for electrochemical nitrate reduction to ammonia'. Student project. Budget - Rs. 45000/-
- **Dr. Rajeswari M Kulkarni**, - 'Congo red dye removal using photocatalytic flow reactor coated by biogenic TiO_2 Nanoparticles'. Student project. Budget - Rs. 35000/-

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT

Publications in National / International Journals

- Annapoorna Krishnappa, **Dr. Shobha Ramesh**, Bharath Vedashantha Murthy, Rajanna Siddagangappa, Mosale Hosahalli, Srimadhu Ashokkumar Trelleborg, Madeva Nagaral, Virupaxi Auradi – 'Effect of hybrid nanoparticle reinforcements on fractographic, mechanical and wear behavior of Al6061 alloy composites manufactured by ultrasonic assisted stir casting technique', Frattura ed Integrità Strutturale – Fracture and Structural Integrity, 71 (2025) 285-301; DOI: 10.3221/IGF-ESIS.71.21, Published: Dec 5, 2024
- Vinayashree, **R. Shobha**, H.M. Mallaradhya – 'Enhancing wear resistance of Al6061 Composites: Insights from microstructural and tribological investigations with ECAP', Journal of Advanced Manufacturing Systems (2025) 1-30 © World

Scientific Publishing Company DOI: 10.1142/S0219686725500283.

- Pradnya Sameer Deshpande, R. Jyothilakshmi, Srikantha. N, **B. S. Sridhar** – 'Investigation of hybrid nano-enhanced phase change materials by experimental evaluation and optimizing thermal performance for energy storage applications', Nano Express 6(2025) 015007 <https://doi.org/10.1088/2632-959X/adb052> Date of publication: 12 Feb 2025.
- **B.S. Sridhar**, H.S. Harish Gowda, G. Revanth, Siddaling, Josiah D Cunha, A.R. Shashikala – 'Influence of rice husk reinforced material to analyze thermal and fire retardant properties', Journal of Mines, Metals and Fuels – 71(12), 377-381, 2023 DOI: 10.18311/jmmf/2023/47246. Print ISSN: 0022-2755. December 20th 2024.
- **Sudheer D. Kulkarni**, Vinayak N. Gaitonde, S. Chethan and Dara Nathaneil – 'Comparative Study of Wear Characteristics of Graphite, Silicon Carbide and Mixture of Silicon Carbide – Graphite Filled E-Glass Fiber Reinforced Vinyl Ester Composites', Print ISSN: 0022-2755 Journal of Mines, Metals and Fuels, 71(12D): 202-212; 2023. DOI: 10.18311/jmmf/2023/47989
- **Sudheer D. Kulkarni**, Sampada Khandelwal, Anannya A. Rao, Deepika Guna – 'Harnessing the Power of Industrial Artificial Intelligence for Optimization of Manufacturing', 2024 IEEE Conference on Engineering Informatics (ICEI) | 979-8-3315-0577-6/24/\$31.00 ©2024 IEEE | DOI: 10.1109/ICEI64305.2024.10912310, 15 March 2025
- **B.S. Aishwarya**, N.D. Prasanna, S. Hamritha, C.A. Niranjana, Ayushi Chatterji – 'Study of process parameters of abrasive water jet cutting machine on ZA 27 using design of experiments', Journal of Mines, Metals and Fuels, 71(12D): 274-279; 2023, DOI: 10.18311/jmmf/2023/48343, Print ISSN: 0022-2755, Published on 24/01/2025
- **R. Gopala Krishna, Amrit Gupta, Harshit Kumar, Harsh Khapra, Siddhartha Kar** – 'Optimizing facility layout for welding electrode manufacturing: A fuzzy – Topsis approach', Journal of Mines, Metals and Fuels, 71(12D): 280-287; 2023, DOI: 10.18311/jmmf/2023/48344, Print ISSN: 0022-2755, Published on 24/01/2025

Paper presentation in National / International Conferences

- **Dr. R. Shobha**, Dr. S. Sethu Selvi, Mullangi Sujith Chowdary, Prathusha. N, Vidath. N, Harsha K Omkumar – 'Dynamic demand forecast dashboard machine learning based quick commerce model', 3rd IEEE International Conference on "Intelligent and Innovative Technologies in Computing, Electrical and Electronics" organized by Department of EEE and ECE, BNMIT Bengaluru held on 16th & 17th January 2025. 979-8-3315-1591-1/25, IEEE/DOI:10.1109/IITCEE64140.2025.10915287
- Annapoorna K, Rohini Ananda, Viraja Deshpande, **Shobha R** – 'Nano reinforced aluminium based metal matrix hybrid composites-an overview', International Conference on Advanced Materials and Fluid Mechanics, Journal of Physics: Conference Series 2748 (2024) 012007, IOP Publishing, doi:10.1088/1742-6596/2748/1/012007
- **M. Rajesh**, G Karthik Reddy, Komal Kulkarni, Shreya S, Vijay Adithya, Vindya. R. Kahyap – 'Harvest Smart: An ergonomic fruit harvester for increased productivity and worker well-being', 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS) 979-8-3315-0546-2/24 DOI:10.1109/CSITSS64042.2024.10817001, November 2024
- **Dr. Sudheer. D. Kulkarni**, Dr. S. Sethu Selvi, Nandan S Bharadwaj, Mohammed Zuber M Momim, Sudesh, Gopal Krishna. R – 'Detection and identification of welding defects through deep learning models', IEEE Conference on Engineering Informatics (ICEI)/979-8-3315-0577-6/24/\$31.00, 2024, IEEE/DOI:10.1109/ICEI64305 204.109/2088
- **Banu Priya. D** – 'Applying topsis to asses weighted cutting jones and its impact on surface roughness in abrasive water jet cutting', 1st International Conference on Recent Interdisciplinary Trends in Engineering and Science for Industry 4.0 (RITESI 4.0) on March 26, 2025 held at Reva University.

Guest Lecture/s – Invited

- **Mr. Sumit Sagar** - Former Vice President, Product & Growth Refyne India, Bangalore – 'Achieving product – solution fit and product – market fit', 10/01/2025.

Achievement/s, Awards/Prizes by Faculty/Staff/Students

- **Akhil Kumar Singh** (IMS22IM003) & **Aayushmaan Purohit** (IMS22IM038) - Achieved the Distinction of being among the top 8 teams in Bangalore City qualifiers of Quiz on the Beach 2025 dated 04/01/2025 organized by TAPMI.

Industrial visits

- M/S. Nikitha BuildTech Pvt. Ltd., Tumakuru - 03/01/2025 - 6th sem
- M/S. Pushpak Industries Pvt. Ltd., Bidadi, Ramanagara - 07/01/2025 - 4th sem
- M/S. Auto Tech Engineering Pvt. Ltd., B'lore. - 25/03/2025 - 4th sem

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



- Organized a FDP on the topic 'From Data to Deployment', the program empowered attendees with practical AI, NLP, and MLOps knowledge, bridging theory and application. Such initiatives are vital amid rapid AI advancements, motivating participants to contribute to academia and industry while exploring further innovations in Artificial Intelligence and Machine Learning.



- The three-day System Administration Bootcamp (Feb 19-21, 2025), organized by CSE & ISE, Ramaiah Institute of Technology, trained 35 Lab Instructors and IT Administrators. The program offered hands-on sessions on user management, server configuration, security, troubleshooting, virtualization, containerization, and software management, providing participants with essential skills to efficiently manage and optimize IT infrastructure.



- A workshop on Generative AI and Google Colab was conducted by 4th-year students and faculty of Ramaiah Institute of Technology for Ramaiah High School Students. The session introduced AI fundamentals, creative applications, and hands-on practice using Colab. Interactive activities, live demos, and discussions fostered curiosity, inspiring students to explore AI's real-world potential. Venue: Ramaiah High School.



- The ACE Club Valedictory, held on 21st March 2025, honored winners of nine technical and non-technical events organized by the Department of CSE. CODERit's Whackiest Hackathon winners received cash prizes, felicitated by the HoD and faculty. The program celebrated student achievements and encouraged continued excellence in technical and creative pursuits

Publications in (National / International) Journals

- **Sangeetha V, Vaneeta M, Mamatha A, Shoba, M, Deepa, S. R, Sujatha V, & Sujatha, S** - 'Breast cancer prediction using genetic algorithm and sand cat swarm optimization algorithm'. Indonesian Journal

of Electrical Engineering and Computer Science, 37(2), 849-858. <https://doi.org/10.11591/ijeecs.v37.i2.pp849-858>.

- **Akshata S. Bhayyar, Kiran P** – 'Hybrid optimization algorithm for analysis of influence propagation in social networks'. International Journal of Electrical and Computer Engineering (IJECE), 15(1), 624-634. ISSN: 2088-8708. <https://doi.org/10.11591/ijece.v15i1.pp624-634>.
- **Dayananda Rangapura Basavaraju** – 'Dynamic resource allocation in cloud computing: Algorithms and performance metrics'. Machine Intelligence Research, 19(1). ISSN: 2731-538X, E-ISSN: 2731-5398.
- Disha D. N, & **Seema S** - 'Improving detection of autism spectrum disorder (ASD) by using mRMR feature selection and genetic optimization-based CES model for computing autism severity score'. SN Computer Science, 6, 309. <https://doi.org/>.

Paper presentation in National / International Conferences

- **Shilpa Chaudhari, Pranav Kulkarni, Latha Kamatchi S, K. Vadivel** – 'Hybrid Machine Learning Approach Using Wingbeat Frequencies for Mosquito Species Classification', 14th International Conference on Communication Systems and Network Technologies (CSNT2025), VIT Bhopal University, Madhya Pradesh, March 2025.
- **Nandini S B, Shilpa Chaudhari, Nikith Ganga, Riddhika Sai Manohar, Nishita Sathish Kumar, Rachna Ramesh** – 'Enhancing MIMO Performance with Channel State Information in Open Air Interface for 5G Network', International Conference on Smart Systems for Applications in Electrical Sciences - 2025, SIT, Tumakuru, 21st– 22nd March 2025.
- **Mallegowda M, S. Nair, S. Khirwal, M. Animesh, V. Mishra, A. Kanavalli** - 'Analysis of Optimization Techniques for Dynamic Neural Networks', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, pp. 1-6. IEEE. doi: 10.1109/IITCEE64140.2025.10915299.
- **Sangeetha V, Pani I, Sharma A, Kanchana C, Siddarth R S,** - 'Intelligent Question Generator System using Natural Language Processing',

International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, January 2025, pp. 1–5. IEEE.

- **Hugar S, Sangeetha V** - 'Early Detection of Breast Cancer Recurrence using Machine Learning for Improved Patient Outcomes', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, January 2025, pp. 1–6. IEEE.
- **Priyanka H. B, Sangeetha V** – 'Neural Network Approach for Resource Allocation and Traffic Management in 6G Networks', International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2025), Sri Sivasubramaniya Nadar College of Engineering, Chennai, 20th– 22nd March 2025.
- **Veena G. S, Brunda G, Mamatha A, R. China Appala Naidu** - 'Real-Time Multilingual Communication System Using CNNs for Bidirectional Sign and Speech Translation', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), BNMIT, Bangalore, 16th – 17th January 2025, pp. 1–7. IEEE.
- **Akshatha Kamath, Ganeshayya Shidaganti** – 'Oral Cancer Prediction using Hybridized Neural Network Model: CNN and RNN', 6th Doctoral Symposium on Computational Intelligence (DoSCI-2025), organized jointly by Institute of Engineering and Technology Lucknow, Campus of Open Learning, University of Delhi, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi and University of Calabria, Italy, 28th– 29th March 2025.
- **Ganeshayya Shidaganti, Raj V. A, Raman V. M, Kumaran S** - 'Edge Computing in Educational Technology: The Power of Edge AI for Dynamic and Personalized Learning', Edge of Intelligence: Exploring the Frontiers of AI at the Edge, Bangalore, 2025, pp. 121–152.

Guest Lecture/s – Invited

- **Dr. Arjun K. Ramachandra**, IIM Bangalore – 'Decoding the Invisible World Within You', on March 25, 2025.

Guest Lecture delivered by the department faculty

- **Shilpa Chaudhari** – 'Building Ethical, Equitable Policies in AI-Driven Education', on 21st January 2025, ATAL FDP titled "AI-Driven Educational Technologies for Enhanced Teaching and Learning.
- **Sangeetha V** – 'From Research to Practice: Role of Artificial Intelligence in Healthcare' on 25th January 2025, AICTE-sponsored ATAL Faculty Development Program titled 'Full Stack AI Web Development'.

Patents

- **Dr. Annapurna P. Patil and Shreekant Jere** – 'Cognitively Managing Depression Levels in an Individual', Patent No. 202141028086, Granted on 24th March 2025.
- **Abhay Bhandarkar, Sushma Bylaiah, Gattumane Motappa Madhu** – 'Jagdish Abhay Mangala (JAM) Algorithm for Randomized String Pattern Matching in Genetics and Information Retrieval', Application No. 202541017132, Published on 7th March 2025.

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING



- Department has conducted workshop on 'IoT driven Automation and Robotics' on 17th and 18th March 2025 in collaboration with Epson India Pvt Ltd, Department of ISE for PG students of Robotics and AI.

Publications - Book Chapter

- **Alamelu, J. V, and Mythili Asaithambi** – 'Digital twins and medical sensor network to analyze start-up delay in smart infusion pump', Sensor Networks for Smart Hospitals. Elsevier, 2025. 129-138. (Chapter 7 - Book Chapter)

Paper Presentation in National/International Conference

- **Saravanan, H. S.** Niranjana Murthy, A. R. S, L. S. Patil, A. A and A. H – 'Illumination Patterns and Hue control using Hand gesture recognition system', 4th International Conference on Advancement in Electronics & Communication Engineering (AECE), GHAZIABAD, 2024, pp. 621-625, doi: 10.1109/AECE62803.2024.10911066.
- **H. S. N. Murthy**, Venu K. N, B. R. Prakash, E. Mohammad, K. S. Harshith and G. G – 'Dual Axis Solar Tracking System', International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, 2024, pp. 162-165, doi: 10.1109/ICICAT62666.2024.10923031.
- **Dr. M D Nandeesh** – 'Detection of COVID-19 based on Deep Learning', International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, 2024, pp. 621-625.

Patent

- **Dr Pushpa MK, Dr Elavaarkuzhali S, Suguna B Rao** - 'AI-powered vibration sensor system for real-time structural health monitoring', application number – 202541031241, publication date (u/s 11a)- 11/04/2025

Guest Lecture/s – Invited

- **Gufran**, AMD Ic, Austin Tex – 'Recent trends in AI/M', 04.01.2025.

Achievement/s, Awards/Prizes by Faculty Students

- **Archie Srivastava**, II year student, Runners-Up, in the Tales in Motion of the Digi Carnival!, Ecell, RIT.
- **Hrithik**, final year student, achieved following in RUAS, Intercollege competition (Anubhooti): Best actor award, 3rd prize in Storytelling competition, First prize (out of the box) and Overall champion award. and First prize (Mad-ads) at BMSCE utsav fest 2025, Bangalore.
- **Hrithik** final year student received best original story and best supporting awards in shoutout 15.0, RIT.

*"The Nation that destroys its soil destroys itself."
- Franklin D. Roosevelt*

Funded Projects Ongoing -Students

- **Harishankar, Syed, Pranesh, Shrisha** - 'Gait assessment framework for depression detection', KSCST sponsored project. Guide: Dr. M Jyothirmayi.
- **Muskan Walia, Atishay Jain, Priyanshu Sharma, Harshvardhan** - 'Next generation railway safety: through real time monitoring and predictive maintenance'. KSCST sponsored project. Guide Dr. Nishi Heider.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



- Workshop on 'From Data to Deployment: A Practical Approach to AI, NLP and MLOps', 24-02-2025 to 01-03-2025, This interactive workshop offered participants a practical, hands on deep understanding of AI and ML concepts, with experience in developing and deploying AI-driven solutions. Through guided exercises and real-world examples, participants will gain proficiency in setting up a virtual environment, understand the vision of Artificial General Intelligence (AGI), identify the importance of data and its classification as the groundwork for ML.

Publications in (National / International) Journals

- **Anitha Palakshappa, Sumana Maradithaya, Charunayana V** - 'A Machine Learning Method to improve Supplier Delivery Appointments in Supply Chain Industries', Brazilian Journal of Operations & Production Management, 22(1), 2040 . <https://doi.org/10.14488/BJOPM.2040.2025>, 2025.
- **SR Mani Sekhar, Sinthuja, Siddesh** – 'Hybrid Routing Identification in Wireless Sensor Networks using Convolutional Neural Networks and Random Forest',

Energy 4.0 Trends, Challenges, and Applications. 2025, CRC Press. ISBN 9781032744513

Paper presentation in National / International Conferences

- **Anitha P, Sumana M, Vaibhav Singh Chauhan, Hamd Bin Tarique, Aman Motani, Sharanyo Chatterjee** - 'MineShark AI: Respond to Text Queries and regulations applicable to mining Industries.'. International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE). BNM Institute of technology, DOI: 10.1109/IITCEE64140.2025.10915537, January 2025
- **Kusuma T, Jyothi S, Shruthi G, Sheela S, Naveen Kumar C** - 'Optical Character Recognition using YOLO4, Tesseract and Paddleocr for Text Extraction', IEEE International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), 16-17 January 2025, ISBN :979-8-3315-1591-1 DOI:10.1109/IITCEE64140.2025.10915347
- **Vaneeta M, Kusuma T, Shruthi G, Avanish Rao BS, Nikhil Anand, Abhishek M** - 'Data Analytics on Blitz E-sports: Enhancing Gaming Experience through Personalization and Prediction', IEEE International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics-2025 (IITCEE), 16 - 17 January 2025. ISBN: 979-8-3315-1591-1 DOI: 10.1109/IITCEE64140.2025.10915318

Guest Lecture/s – Invited

- **Krishna Pillutla**, IIT Madras – 'Research opportunities in AI and data science', 21-02-2025.
- **Dr. Arjun Rama Chandra**, IIM, Bangalore – 'Decoding the invisible world with in you' 25-03-2025.

Patents

- **Prashanth Kambli, Suresh Kumar K R, Dr. Lincy Meera Mathews, Dr. Geetha V, Shivananda S, Prathima M N, Charunaya V** – 'Deep Learning and IoT framework for Human movement analysis using smart surveillance cameras', Application Number- 202541006154 Filing Date- 24/01/2025, Indian Patent.

Achievement/s, Awards/Prizes by Faculty/ Staff/ Students

- **Urvi Umesh**, Vidit Kaushik, Pranav Sreeharsha, Kushi KKS, 4th sem students won Rs. 15,000/- in state level 'Hackathon HACC VERSE" conducted by BGS College of Engineering & Technology, Bengaluru in April 2025, At HaccVerse 2025,
- **Nithish Reddy**, Urvi Umesh, Vidit Kaushik, Kushi KKS 4th sem students won Rs. 70,000/- in state level 'Hackathon Healthcare with technology conducted by Reva University, Bengaluru in April 2025.

Faculty who obtained Ph.D degree



- **Kusuma S**, Assistant Professor in the Department of ISE, has earned Ph.D. degree from Visvesvaraya Technological University, Belagavi, for her research thesis entitled 'Multiple Object Detection and Tracking for Human Activity Analysis in Videos', under the supervision of Dr. Kiran P, Prof. and Head Dept. of CSE (Cyber Security), RNS Institute of Technology, Bengaluru.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Paper presentation in National / International Conferences

- Poojitha Singh, Nisha SL, **B K Sujatha**, Kushagra Sharma – 'Hand gesture implementation for movement automation and health tracking', Nineth IEEE international conference on communication and electronics systems ices, 05.03.2025.

The vital connection between soil and water is essential to the existence of our planet. More than 95% of our food comes from these two basic sources. The soil water that plants need to absorb nutrients is what keeps our ecosystems together. Our agricultural systems' cornerstone is this symbiotic interdependence

- **Satvik Bhardwaj**, Nisha S L, Aryan Arkane, Vaibhav Kumar, Priyam Sharan – 'Design and Fabrication of 3D printed antennas for 5G Applications', 9th International Conference on Communication and Electronics Systems ICCES 2024 IEEE Conference, 05.03.2025.

Guest Lecture delivered by the department faculty

- **Dr. Parimala P** – 'Women in the forefront of Evolution', in Kannada at Rotary Vijayapura on 11th March 2025.

Funded Project

- **Dr. Parimala P** Principal Investigator, and **Nisha S L** CO-PI, - 'Design, Development and Prototyping of High Accuracy NavIC Receiver for Rapid Topographic Survey', DST – Device Development Programme. Budget - Rs. 53 lakhs.
- **Dr. Viswanath Talasila** – 'Development of a Prosumer Driven Integrated SMART Grid', DST, Budget - Rs. 90 Lakhs.
- **Dr. Vijaya Kumar B P**, Principal Investigator and **Kusuma S M**, CO- Investigator - 'Use of Artificial Intelligence (AI) Expert Systems (ES) Machine Learning (ML) in Mission operations', by ISRO-RESPOND, Budget - Rs.16,94,880.
- **Dr. Viswanath Talasila** - 'In-Cabin Sensing', funded by IIT-Madras and Stellantis, Budget- Rs. 50 lakhs,
- **Dr. Ramya, Dr. Shobha K R** - 'Efficacy analysis of Carnatic music and mudra therapy in the treatment of diabetes and hyper blood pressure using EPI', RIT seed funding, Budget - Rs. 2,55,000.
- **Dr. P Parimala** – 'Design and development of compact transparent antenna for 5G applications', RIT seed funding. Budget - Rs. 1,75,560.00

Achievement/s, Awards/Prizes by Faculty

- **Dr. Parimala Prabhakar** awarded with 'Vocational Excellence Award', as a part of World Women Day celebration by Rotary Vijayapura, on 11th March 2025

*"The soil is the great connector of our lives,
the source and destination of all"*
- Wendell Berry

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING) (CYBER SECURITY)



- A Faculty Development Program conducted on 'Integrating AI Tools in Engineering Research', from 03rd February 2025 to 08th February 2025 by the Department of CSE (AI&ML) and CSE (Cybersecurity).



- A seminar on Generative AI: USE cases and its opportunities: AI-based project development by Mr. Tarun Jain expert in Artificial Intelligence on February 14th 2024.



- A Training on Python Programming and Functions for Beginners and Advanced Python conducted for First Semester M. Tech (AI) students by Mr. Prateek Agarwal, IISc, Bengaluru on 11 - 12 February 2025.



- Figma Carousel on UI/UX Design Workshop conducted for CSE (AI&ML) and CSE (CY) second year students on 21-03-2025.



- HackRITual Capture the Flag (CTF) competition conducted by the securIT club for CSE(AI&ML) and CSE(CY) students on 15/1/2025.



- A seminar on 'Career opportunities in Cyber security', conducted for CSE(CY) students by Mr. Nishant Krishna, Tech Machinery Labs on 4-1-2025.
- A seminar on 'GPU Architecture and CUDA Programming' organized for I semester M. Tech (AI) students by Dr. Vinay T R, Assistant Professor in Artificial Intelligence and Data Science, MSRIT on 04th March 2025.

Publications in (National / International) Journals

- **Dr. Rakesh Kalshetty** – 'Polycystic Ovary Syndrome Detection Using Contextual Ensemble

Network and ELMAN Neural Network with Green Anaconda Optimization', Journal of Multiscale Modeling, Vol.15(4),2025, <https://doi.org/10.1142/S1756973724500070>.

- **Dr. Sini Anna Alex** – 'Air quality and dust level monitoring systems in hospitals using IoT at Discover Internet of things', Springer Nature link Journal, Discover Internet Things, Vol.5 (23), 11 March 2025. <https://doi.org/10.1007/s43926-025-00120-w>
- **Pallavi T P** – 'Adversarial Robustness in DeepFake Detection:EnhancingModelResiliencewith Defensive Strategies', International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA), pp. 221-226, Bali, Indonesia, March 2025. <https://doi.org/10.1109/ICICYTA64807.2024.10913151>

Publications in (National / International) Conferences/ Book Chapter

- **Mr. Chethan Sharma** - 'Optimization Techniques in Electronics: Advances, Challenges, and Future Directions', International Conference on Intelligent Computing and Control Systems (ICICCS-2025). Nandha College of Technology, Tamilnaadu, 19th to 21st March 2025.
- **Dr. Siddesh G M** – 'From the smart city to the smart society', Digital Twin, Blockchain, and Sensor Networks in the Healthy and Mobile City', Elsevier, pp: 543-558, ISBN 9780443341748, 2025, <https://doi.org/10.1016/B978-0-443-34174-8.00028-4> .
- **Dr. Rakesh Kalshetty** – 'Mastering Image Processing using Python', in 1st Edition of Scientific International Publishing House 2025, ISBN: 978-93-6674-555-8.

Funded Projects Ongoing

- **Dr. Nithya N (PI)** and **Mr. Subash N (Co-PI)** - 'Her Health XAI : XAI Driven Cyber Physical System for Clear & Accessible Uterine Disorder Diagnosis', RIT Seed Fund with a grant of ₹4.5 lakhs.
- **Dr. Sini Anna Alex** - 'Deep Learning – Driven IOT Security System for Enhancing Personal Protection', RIT Seed Fund with a grant of ₹ 3.0 lakhs.

Guest lecturers- invited

- **Dr. Krishna Pillutla**, Asst. Professor, Dept. of Data Science & Artificial Intelligence, IIT Madras - 'Making

AI more Private and Robust', for First Semester M. Tech (AI) students on 21st Feb, 2025.

Guest Lecture delivered by the Department Faculty

- **Mr. Subash N** – 'Prompt Engineering', FDP - Integrating AI Tools in Engineering Research from 3rd Feb 2025 to 8th Feb 2025. at Ramaiah Institute of Technology.
- **Ms. Reshma Rachel Cherish** - 'Python for data visualization' FDP - Integrating AI Tools in Engineering Research from 3rd Feb 2025 to 8th Feb 2025 at Ramaiah Institute of Technology.

Student Achievements

- Students of 6th CSE (AI & ML) **Rakshita V** (1MS22CI052), **Lokesh H M** (1MS22CI037), **Aby Binoy** (1MS22CI003) and **Rishi Dave** (1MS22CI054) won first place in the 24-hour Offline Hackathon conducted at JSS Academy of technical education with a trophy and cash prize of Rs. 10,000.
- **Mr. Swapnil Rao** (1MS22CY070) and **Mr. Prathamesh** (1MS23CY049) won the CID Hackathon hosted by the Karnataka Cyber Crime Investigation Department with Cash Prize of Rs. 1 Lakh.
- **Mr. Raju** (1MS21CY040), **Mr. Sanjay Kumar** (1MS21CY045), **Ms. Anu** (1MS21CY010) and **Ms. Meghana** (1MS21CY402) won the CID Hackathon hosted by the Karnataka Cyber Crime Investigation Department with Cash Prize of Rs. 1 Lakh.

Faculty who obtained Ph.D degree



- **Mr. Rakesh Kalshetty**, Assistant Professor, Department of CSE (AI&ML), has successfully completed his Ph.D. Degree on Research Title 'Design and Development of Context-Aware Surveillance System for Post-Harvest Depositories using IoT and Machine Learning Techniques', from Visvesvaraya Technological University (VTU), Belagavi. Dr. Asma P, Professor, VTU, Kalaburgi.

"Your soil and plants are friends that benefit from constant care and attention to the details I explain."
- Charles Dowding

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Publications in (National/International) Journals

- **Dr. Sowmya B. J** – 'Air quality and dust level monitoring systems in hospitals using IoT', Discover Internet Things 5, 23 (2025). <https://doi.org/10.1007/s43926-025-00120-w>
- **Sowmya, B. J** – 'Leveraging machine learning for intelligent agriculture', Discover Internet Things 5, 33 (2025). <https://doi.org/10.1007/s43926-025-00132-6>.
- **Dr. Vaneeta M** – 'Breast cancer prediction using genetic algorithm and sand cat swarm optimization algorithm", Indonesian Journal of Electrical Engineering and Computer Science, [S.L.], v. 37, n. 2, p. 849-858, feb. 2025. ISSN 2502-4760. Available at:<https://ijeecs.iaescore.com/index.php/IJEECS/article/view/39394/18925>.

Paper presentation in National / International Conferences

- **Dr. Vaneeta M** – 'Data Analytics on Blitz E-sports: Enhancing Gaming Experience through Personalization and Prediction', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE) Date :1/03/25
- **Dr. Vaneeta M** – 'Sentiment Detection Using X-NLP: Harnessing Advanced NLP Techniques', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Date: March 2025
- **Dr. Kusuma T** – 'Optical Character Recognition using YOLO4, Tesseract and Paddleocr for Text Extraction', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Date:14/03/2025
- **Dr. Kusuma T** – 'Data Analytics on Blitz E-sports: Enhancing Gaming Experience through Personalization and Prediction', International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Date:14/03/2025.

Guest Lecture delivered by the department faculty

- **Dr. Vijaya Kumar B P** - Invited for the event 'Inauguration of IEEE & CIS Chapter' at Christ Deemed University Kengeri, on 25th Jan 2025.
- **Dr. Vijaya Kumar B P** - Invited for the event - 'IEEE & Technical talk Series at SJBIT Bangalore', on 10th March 2025.

DEPARTMENT OF AEROSPACE ENGINEERING

Publications in International Journals

- Dhanya Prakash R. Babu, D. Madhesh, **Inamul Hasan**, R. Mukesh – 'Evaluation of traditional and slotted winglets for enhanced aerodynamic efficiency'. Physics of Fluids, Volume 37, February 2025, 023102.
- Dhanya Prakash R. Babu, D. Madhesh, **Inamul Hasan**, R. Mukesh – 'Influence of rough surfaces on airfoil aerodynamics and the ground effect on near-wall flow'. Physics of Fluids, Volume 37, February 2025, 023607.
- **C. M. Vigneswaran**, **Inamul Hasan**, S. Rajkumar, Sudhagara Rajan, Prathik S. Jain – 'Lift and stall behavior of a co-flow jet airfoil: a detailed analysis'. Physics of Fluids, Volume 37, February 2025, 023606.
- P. Theerthamalai, R. Mukesh, M. Praveenkumar, M. Prashanth, Arun Rajput, R. Krishna Mohan Rao, **Inamul Hasan** - 'Advanced aerodynamic prediction software for versatile canard-controlled missile configurations'. Physics of Fluids, Volume 37, February 2025, 023626.
- Mukesh Raju., P. Theerthamalai, Praveenkumar, M. Prashanth, **Inamul Hasan** – 'Comparison of aerodynamic characteristics of an UAV using DATCOM and CFD analysis'. Progress in Computational Fluid Dynamics, Vol. 25, No. 2, March 2025.
- Srinath R, **C. M. Vigneswaran**, Inamul Hasan, Kartik S. Tandel., Mohamed Hussain – 'Lift and stall behavior of a co-flow jet airfoil: a detailed analysis'. Physics of Fluids, Volume 37, March 2025, 036114.
- **C. M. Vigneswaran**, Mohamed Hussain – 'Triangular and semi-circular serrations in raked winglets:

Numerical analysis of vortex dynamics and drag control', Physics of Fluids, Volume 37, March 2025, 036123.

- Ananya Ravikiran, **Raji George K**, R.V. Subramanian, Uday S Kallannavar -. 'High energy processing of natural fiber composites', Next Research, Volume 2, Issue 1, March 2025, 100113.

Funded Projects

- **Dr. Jayaram R. Pothnis** – 'Novel Composites with Engineered Microstructures for Aerospace Structural Applications', RIT Seed Funding for Rs. 540000/-

MOOC Courses cleared by Faculties

- **Dr. Inamul Hasan** – 'Effective Engineering Teaching in Practice', in an Elite Category conducted by NPTEL-SWAYAM MOOC course in Jan – Feb 2025.
- **Dr. Inamul Hasan** – 'Teaching and Learning in Engineering (TALE)', in an Elite Category conducted by NPTEL-SWAYAM MOOC course in Jan – Feb 2025.
- **Dr. Inamul Hasan** – 'Patent Drafting for Beginners', in an Elite Category conducted by NPTEL-SWAYAM MOOC course in Jan – Feb 2025.

DEPARTMENT OF BIOTECHNOLOGY



- The Department of Biotechnology, Ramaiah Institute of Technology (RIT) & Indian Institute of Science, jointly organized a 3 days' workshop on 'Introduction to Mass Spectrometry, Fundamentals, Hands on training and Applications', from 27th to 29th March 2025. It aimed to provide participants with theoretical and hands on training to operate a Mass spectrometer and interpret mass spectra using Mass hunter software.

Publications in International Journals - Faculty

- **Dr. Prabha M** – 'Enhanced in silico QSAR-based screening of butyrylcholinesterase inhibitors using multi-feature selection and machine learning, SAR and QSAR', Environmental Research, Vol.36, pp. 79-99. Elsevier, (Feb 2025).
- **T. P. Krishna Murthy** – 'Designing a multi-epitope vaccine candidate against pandemic influenza a virus: an immunoinformatics and structural vaccinology approach', Molecular Diversity (Feb 2025), online publication.
- **Bhavya S G** – 'Untapped potential of calcium and nano-calcium to develop abiotic stress resilience in photosynthetic machinery: The primary source of plant food and fuels'. Plant Stress, Jan 2025. Vol.15, 100718.
- **Bindu Sadanandan** – 'In Situ Aqueous Spice Extract-Based Antifungal Lock Strategy for Salvage of Foley's Catheter Biofouled with Candida albicans', Biofilm Gel (Jan 2025). Vol.11, 23.
- **Dr. Dhamodhar P** – 'A Study on Chlorella Biomass as a Vegan Source for Omega-3 Fatty Acids and Dietary Proteins', Current Trends in Biotechnology and Pharmacy (Jan 2025). Vol.19(1), 2116-2129
- **Dr. Dhamodhar P** – 'A study on Ochromonassp. as an alternate microalgal biomass for the synthesis of proteins and carotenoids', Journal of Applied and Natural Science (March 2025). Vol. 17(1), 293-301

Publications in International Journals- Students

- **Monika, Prakash, Anushka Poola, Prithvi Prabhu, Samrat K** - 'Key insights into recent advances and challenges in COVID-19 Management', Discover Public Health (Feb 2025): 22-15.

Funded Projects Ongoing - RIT Seed Funds

- **Dr. Bindu S** – 'Identification of potential spices extract based drug targets to control clinical isolates of candida tropicalis causing invasive candidiasis', dated 05.02.2025, Rs. 4.45 Lakhs.
- **Dr. Monika P** – 'Novel therapeutic low cost in situ spray bandage and nano-scaffolds incorporated with nano-phytocompounds with enhanced wound

regeneration potential for non-healing diabetic foot ulcers', dated 20.11.2024, Rs. 5.5 Lakhs.

- **Dr. Dhamodhar P** – 'Optimization and production of cost effective biopolymers from Alcaligenes. sp for exploratory wound healing activity'. dated 01.02.2024, Rs. 5.45 Lakhs.
- **Dr. Bhavya S G** – 'Characterization and structural analysis of mitochondrial proteome of cardiac hypertrophy', dated 01.02.2024, Rs.6.50 Lakhs.
- **Dr. Lokesh K N** – 'Formulation, development and evaluation of multiphase ultrafine, nutraceuticals to improve bioavailability and ferroptosis activity', dated 01.02.2024, Rs. 5.18 Lakhs.

External Funded Projects

- **Dr. Bindu S & Dr. Savita P D Souza** - 'Characterization of phytase from novel yeasts and strain improvement for the development of high nutrition eco-friendly poultry feed', DST-WOS(A) 03.10.2024, Rs. 41.33 Lakhs.
- **Dr. Chandra Prabha M N & Dr. Harikrishna R** – 'Sustainable green synthesis of TiO₂ nanocatalysts for visible-light driven degradation of primary microplastics'. (EMPRI-GoK), Rs.36.28 Lakhs.
- **Dr. Chandra Prabha M N & Dr. Harikrishna R** – 'Designing novel antimicrobial and quorum quenching ceramic coating materials to impede in infections in medical implants'. (SPARC-MHRD). Rs.54.29. Lakhs.
- **Dr. Abhijith S R** - 'Role of ZIC1 (Zink finger of the cerebellum) in the progression of triple negative breast cancer', VGST (K-FISTL1),14.02.2022, 15.0 Lakhs.

Guest Lecture/s – Invited

- **Prof. Utpal S Tatu**, Dept. of Biochemistry, IISc, Bengaluru - 'Mass spectrometry the workhorse of Proteomics', on 29.03.2025.
- **Dr. Dipankar Malakar**, Application Support Manager, SCIEX, Bengaluru – 'Mass spectrometry applications in Biotechnology', on 29.03.2025.

Guest Lecture delivered by the department faculty

- **Dr. Bindu S** - 'Relevance of analytical techniques in Food Biotechnology', RIT, LCMS, on 29.03.2025

Achievement/s, Awards/Prizes by Faculty/ Staff/ Students

- **Ayesha Fathima**, VIII semester, received prestigious International scholarship for higher studies from Erasmus Mundus Funding (Funded by EACEA).
- **Sreemoyee Biswas**, VIII semester, received International scholarship for higher studies (FEPS – Excellence, Scholarship) from University of Southampton.
- **Aarnav Jathanna**, VIII semester, received International scholarship for higher studies from New York University (9000\$/Year Scholarship).
- **Harini & Group**, BE VIII semester, received Project Funding from Karnataka State Council for Science & Technology (KSCST).
- **Sagar Vasudev Kesari**, M Tech IV semester, received Project Funding from Karnataka State Council for Science & Technology (KSCST).

DEPARTMENT OF MATHEMATICS

- Conducted 2nd International Conference on Applied Research in Engineering Sciences (ICARES 2025), Department of Mathematics, Physics, Chemistry and Humanities Jointly organized on 20 – 21 Feb 2025.

Publications in (National / International) Journals

- **Uma M** - 'Magnetohydrodynamic Effect on 3D Nanofluid Flow via Stretching/shrinking Surface', Communications on Applied Nonlinear Analysis, Vol. 32 (5) pg. no. 145, 2025
- **Kalpana G** – 'Impact of thermal conductivity of a Williamson's Nano fluid flow due to a stretching sheet', Modern Physics Letters B, 2550014, 2025
- **Dinesh P. A** – 'Three-Dimensional Fluid Flow Over an Elastic Sheet Stretched Nonlinearly in Two Lateral Directions', Chemical Engineering & Technology, Vol. 48/ (2) e202400326, Jan 2025
- **Dinesh P. A** – 'Influence of radiative heat transfer on hybrid nanofluid across a curved surface with porous medium', International Journal of Numerical Methods for Heat & Fluid Flow, 360, Jan 2025

- **M. Girinath Reddy** – 'Radiation effects on rotating system free convective Nano fluid unsteady flow with heat source and magnetic field', Partial Differential Equations in Applied Mathematics, Vol. 32, 1-14, Jan 2025
- **M. S. Basavaraj** – 'Modal and non-modal linear stability analysis of plane channel flow through a Darcy Brinkman porous medium with symmetric and asymmetric slippery walls', International Journal of Non-Linear Mechanics, Vol. 171, 105015, Jan 2025
- **Praveena M M, Shashi Prabha Gogate S** – 'Linear Stability analysis of Navier-Stokes-Voigt fluid with slip boundary condition in a porous medium', Physics of Fluids Vol. 37 (1), Jan 2025
- **Vijaya Kumar** – 'Comparison of Conventional to the Vedic Mathematics System: Through Statistical Analysis of Pre and Post Test Result', Journal of Mines, Metals & Fuels, Vol. 71 (12D), 230-234, Jan 2025
- **Vijaya Kumar, N. L. Ramesh** - 'Exploring Boronic Acid Derivative through their Photophysical Properties, Quantum Chemical Computations and Molecular Docking', Journal of Mines, Metals & Fuels, Vol. 71 (12C), 483-493, Jan 2025
- **Vijaya Kumar** – 'Numerical Study of Rayleigh-Benard and Marangoni Convection in the Presence of Magnetic Field and Heat Source/Sink', Journal of Mines, Metals & Fuels, Vol. 71 (12D), 221-229, Jan 2025
- **Vijaya Kumar** – 'Improved Exponential Synchronization of Neutral Delay Differential Systems with Time Varying Delays', Journal of Mines, Metals & Fuels, Vol. 71 (12D), 105-109, Jan 2025
- **Bharathi M C** – 'Stability of Tollmien-Schlichting Modes in Magnetohydrodynamic Boundary Layer Flow in Porous Medium: Energy Budget Analysis', ASME Journal of Heat and Mass Transfer, Vol. 147 (6), 062703, Feb 2025
- **Srikantha N** – 'Investigation of hybrid nano-enhanced phase change materials by experimental evaluation and optimizing thermal performance for energy storage applications', Nano Express, Vol 6, 15007, Feb 2025

- **Bharathi M C** – 'Linear stability of channel Poiseuille flow of viscoelastic Giesekus fluid', Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 481, 2309, 29, Mar 2025.
- **Dinesh P. A** – 'Synthetic jet's flow-induced vibrations for enhanced thermal management and energy harvesting', Applied Thermal Engineering, Vol. 263, 125397, Mar 2025.

DEPARTMENT OF CHEMISTRY



- 2nd International Conference on Applied Research in Engineering Sciences" (ICARES-2025) was organised by Department of Chemistry, Physics, Mathematics and Humanities during 20 & 21, February 2025. The event was inaugurated by the Chief guest Prof. Siva Umamathy, Distinguished Professor, IISc, Bengaluru motivated the participants with his inspiring words. The two-day event consisted of one Keynote Address, four invited talks and oral presentations. Best oral presentations were awarded during the Valedictory session.

Publications in (National/International) Journals

- Aishwarya Chalil Suresh, **Nagaraju Kottam**, Savitha Hosamane – 'A Review on Minimization of Polysulfide Shuttle Effect of Lithium-Sulfur Batteries by Using Low-Dimensional Carbon Composite as the Sulfur Cathode', International Journal of Energy Technology, 2025, Pg. 2401451.
- Shoaib Khan, **Sampath Chinnam**, Tayyiba Iqbal, Rafaqat Hussain, Mujadad Ur Rehman, Yousaf Khan, Jave Iqbal, Ayed A Dera – 'A Novel Class of thiazole based thiadiazole hybrids: The privileged Scaffolds of potent anti-Alzheimer's activity along with molecular docking and ADME analysis', International Journal of Molecular Structure, Vol. 1321, Part 1, 5th February 2025, Pg. 139775.
- CR Santhosh, **Sampath Chinnam**, **Nagaraju Kottam**, S Amreen, Guddekoppa S Ananthnag, GM Madhu, Samata Gadde, Viola Tressa Fernandes, Haritha Arnipalli – 'Recent progress on anti-cancer activity of thiadiazoles: A review', International Journal of Results in Chemistry, Vol. 13, January 2025, Pg. 101939.
- P Baranitharan, Srideep Dasari, Senthil Muthu Kumar, **Nagaraju Kottam**, Kittipong Rattanaporn, Jayapriya Jayaprakash, Malinee Sriariyanun – 'Chemically Pretreated Biomass Conversion for Biorefinery: A Review of Current Trends', International Journal of Korean Chemical Engineering Research, Vol. 63(2), 2025, Pg. 145-164.
- Gopinath Prasanth, Gattumane Motappa Madhu, **Nagaraju Kottam**, and Smrithi Sailaja Prasannakumaran Nair – 'Carica papaya-Derived Carbon Nanodots for the Detection of Fe (III) Ions', International journal of Applied Science and Engineering Progress, Vol. 18(2), 7571, Pg. 1-9, 2025.
- Savitha Hosamane, **Nagaraju Kottam**, Aishwarya Chalil Suresh – 'Strategies to Boost the Safety and Ionic Conductivity of Lithium-Ion Batteries Using Solid State Electrolytes: A Review', International journal of Wiley Interdisciplinary Reviews: Energy and Environment, Vol. 14(1), 2025/3, Pg. e544.
- G.M Mamatha, Pradipkumar Dixit, **R Hari Krishna** – 'Unveiling the potential of PVDF@LaFeO₃ based flexible composite films towards high performance broad band EMI shielding', International journal of Materials Technology, Vol. 40(1), 2025, Pg. 2447050.
- K. S. Anantharaju and G. K. Raghu S. Shashidhar, Vidyavati A. Shastry, **K. Gurushantha**, K. V. Brungesh, S. Meena – 'Ceramic manganese ferrite: synthesis, characterisation and its applications as photocatalyst and electrochemical studies', International journal of Rasayan J. Chem., Vol. 18(1), 2025, Pg. 1-6.
- Saurabh Bhatia, Muhammad Jawad, **Sampath Chinnam**, Ahmed AL-Harrasi, Yasir Abbas Shah, Talha Shireen Khan – 'Development and Characterization of Potato Starch-Pectin-Based Active Films Enriched With Juniper Berry Essential Oil for Food Packaging Applications', International journal of Food Science & Nutrition, Vol. 13(1), 2025/1, Pg. e4688.

- M. El. Sherin, G. Dennise, V. Salvador, Jyothish Kumar, A. Renato, M. Noufal, **Sampath Chinnam**, H. Sarma, Mahesh Narayan – 'Nitrogen doped carbon quantum dots: A multifaceted carbon nanomaterial that interferes in an amyloid-forming trajectory International Journal of Materials Chemistry B, 2025.
- **Nagaraju Kottam**, Koteswara Rao Jammula, Sagar J. Shivaram, Balaji Adavichambakuru Rajappa, Priyanka Narayanappa, Smrithi Sailaja Prasannakumaran Nair, Atthasit Tawai – 'Design and Development of g-C₃N₄/ZnO/CdS Ternary Photocatalyst for the Removal of Environmentally Hazardous Organic Dyes under Visible Light', International Journal of Applied Science and Engineering Progress, Vol. 18(3), 2025, pg. 7654.
- Mayur S Dhangar, Iqar Ahmad, Jong Min Oh, Bhatu R Patil, **Sampath Chinnam**, Dharmarajan Sriram - 'Optimizing Linezolid: Transforming It into a Selective MAO-B Inhibitor via a Toxicity-to-Activity Optimization Approach', International journal of ACS Medicinal Chemistry Letters, Vol. 16(1), 2025/1/9, Pg. 40-50.
- Sapana Jadoun, **Sampath Chinnam**, Shagufta Jabin, Yachana Upadhyay, Nirmala Kumari Jangid, Jannatun Zia Recovery of Metals from E-waste: Facts, Methods, Challenges, Case Studies, and Sustainable Solutions, International Environmental Science & Technology Letters Vol.12(1), 2025/1/14, Pg. 8-24.
- G.Y Akarsh, M.N Manjunatha, B.S Krishna, H.A Anilkumara, N Ranjitha, N.K Vasantakumarnaik, G Krishnamurthy – 'Electrochemical, photocatalytic and biological investigation of carbaldehyde derived azo dye ligand and its Co (II), Ni (II), Cu (II) complexes', International Journal of Molecular Structure, Vol. 1322, 2025/2/15, pg. 140448.
- Ranjeet Kumar Mishra, **Sampath Chinnam**, Kaustubha Mohanty – 'Kinetic behaviour and fast pyrolysis of Tamarindus indica seeds using Py-GC-MS', International journal of Bioresource Technology Reports, Vol. 29, 2025/2/1, Pg. 102014.
- M Jayalakshmi, Jyothis Devasia, **Sampath Chinnam**, Aatika Nizam, Ganga Periyasamy, Pankaj Wadhwa, Suresh Babu Naidu Krishna – '10-camphor sulfonic acid: A simple and efficient organocatalyst to access anti-SARS-COV-2 Benzoxanthene derivatives', International journal of Molecular Catalysis, Vol. 572, 2025/2/1, Pg. 114691.
- M Maya Pai, **Basappa C Yallur**, Manjunatha D Hadagali, Eliza Ahmed, Sheetal R Batakurki, Raviraj Kusanur – 'Synthesis and biological activities of novel thieno [2, 3-b] pyrrol-5-one derivatives: antioxidant and anticancer potential', International Journal of Sulfur Chemistry, 2025/2/13, Pg. 1-17.
- Rudresh Kumar KJ, Areej S Alqarni, Upendra Kumar Kagola, **K Gurushantha**, Nagaraj Basavegowda, A Madhu, N Srinatha – 'Fe-doped NiO nanopowders for advanced photochemical applications: Synthesis, characterization, photo-assisted dye degradation and latent fingerprint visualization', International journal of Physica B: Condensed Matter, Vol. 701, 15 March 2025, Pg. 41699.
- Kunal Bhadane, Bhatu Patil, **Sampath Chinnam**, Biswajit Das, Chandragouda Patil, Chandrakant Gawli – 'Synthesis, impurity profiling, simultaneous NP-HPTLC method development, molecular modelling study and EGFR tyrosine kinase inhibitory profile: An integrated approach to ...', International journal of Analytical Chemistry Letters, Vol.15(1), Feb. 2025, Pg. 47-64.
- Ranjeet Kumar Mishra, **Sampath Chinnam**, Abhishek Sharma – 'Thermocatalytic Pyrolysis of Low-Value waste Biomass: Thermal Decomposition, Kinetics behaviour, and Biochar Characterization', International Journal of Results in Engineering, Vol. 25, March 2025, Pg. 104210.
- Prakash Monika, **R Hari Krishna**, Zayaan Hussain, Krithika Nandhini, Samhitha J Pandurangi, Tausif Malek, S Girish Kumar – 'Antimicrobial hybrid coatings: A review on applications of nano ZnO based materials for biomedical applications', International Journal of Biomaterials Advances, Vol. 172, July 2025, Pg. 214246.

Soil is a living ecosystem, and is a farmer's most precious asset. A farmer's productive capacity is directly related to the health of his or her soil.

- Howard Warren Buffett

- D Sateesha, **Sampath Chinnam**, Guddekoppa S Ananthnag, T Chandra Shekhara Shetty, Itte Pushpavathi, G Vinitha, S Raghavendra – 'Structure–property relationship of an organic crystal (E)-3-(4-(dimethylamino)phenyl)-1-(4-(methylthio)phenyl) prop-2-en-1-one through linear, nonlinear optical ...', International Journal of Materials Science: Materials in Electronics, Vol. 36(8), 3/2025, Pg. 501
- Raunak Gupta, Dr Ranjeet Kumar, Kumar Mishra, D Jaya Prasanna Kumar, **Sampath Chinnam**, Abhishek Sharma, Kaustubha Mohanty – 'Sustainable valorization of bamboo sawdust via catalytic pyrolysis into renewable liquid fuel and value-added chemicals', International journal of Engineering Research Express, 14/3/2025, Pg. 015014.
- Saurabh Bhatia, Aysha Salim Alhadhrami, Muhammad Jawad, **Sampath Chinnam**, Yasir Abbas Shah, – 'Development of Peru balsam-enriched pectin-gellan gum films for sustainable antioxidant food packaging', International journal of Polymer Bulletin, 3/16/ 2025, Pg. 1-19.
- S. Abbas, T.S. Akhtar, **Sampath Chinnam**, S. Mushtaq, N. Ahmad, Yu Fang, Amjad Khan – 'Optimizing achalasia diagnosis in the era of high-resolution manometry: A Pakistani perspective', International journal of JGH Open, Vol. 9(3), 18th March 2025, Pg. e70041.
- Saurabh Bhatia, Muhammad Jawad, Yasir Abbas Shah, **Sampath Chinnam**, Ahmed Al-Harrasi, Esra Koca – 'Effect of Pinus radiata extract on the properties and performance of sodium alginate and kappa-carrageenan composite films', International journal of Polymer Bulletin, 23/3/2025, Pg. 1-22.
- Jyothi C Abbar, Ravichandra Rangappa, **Basappa C Yallur**, Archana R Patil – 'Ultra-sensitive platform for the detection of a psychostimulant drug using a nanostructured titanium carbide/carbon matrix: Insights into electrochemical sensing mechanism', journal of Materials Chemistry and Physics, 25/5/2025, Pg. 130797.
- **S.B Patil** – 'A comprehensive insight into Anethum graveolens composition and its medicinal potency', Int. J Pharm Sci & Res, Vol.16(3), 3/2025, Pg. 609-14.

Funded project

- Dr. Chandra Prabha M N & **Dr. Harikrishna R** - Designing novel antimicrobial and quorum quenching ceramic coating materials to impede infections in medical implants. SPARC- Scheme for Promotion of Academic and Research Collaboration, Rs. 57.00 lakhs
- Dr. Chandra Prabha M N & **Dr. Harikrishna R** - Sustainable green synthesis of TiO₂ nanocatalysts for visible-light driven degradation of primary microplastics', Environmental Management & Policy Research Institute (EMPRI), Govt. of Karnataka, India. Rs.36.28
- **Dr. Nagaraju Kottam** – 'Design and Development of Carbon dot (C-dot) Based Nanosensors: Detection of Environmentally and Biologically Relevant Metal Ions', VTU sanctioned date: 18.02.2022. Amount: 700000/-.
- **Dr. Sampath Chinnam** – 'Novel Organophosphorous and Heterocyclic compounds as potential anti-viral agent against tobacco mosaic virus: design, synthesis, in-vivo anti-viral activities, , RIT Seed money, Rs 5.00 lakh
- **Dr. Basappa C Yallur** – 'Anti-Cancer Scaffolds design, synthesis, characterization of novel thiazole containing heterocyclic compounds as potent anti-cancer agents'. RIT Seed money, Rs 1.00 lakh
- **A Series of Google meetings:** In association with The University of Trans-Disciplinary (TDU) Health Sciences and Technology, Bengaluru, Soil Trust Bengaluru, and other organisations, Luminescence Society of India: Karnataka Chapter (LSIKC) conducted a series every week (on Friday @ 7.00 pm to 9.00 pm) of Google meeting on the theme 'Knowledge Sharing with Village and farmers'. The following are the tile and resource person.
- **Smt. Manjula**, Arogya Bharathi, Bengalur - 'Uses of Medicinal Plants in Daily Life', 28-03-2025
- **H R Manjunatha**, M S Farm, Banavathi, Doddaballapura Taluk – 'Chemical Free Farming: A guide for New Young farmers', 21-03-2025.
- **U M Taranath**, Ex-military Person, Sri Gurushanthidhaama Dharmika Datti Samstaana,

Yagatipura, Kaduru : Taluk, Chikkamagaluru :Dist –
'My thoughts for a healthy society', 14-03-2025

- **G T Sudarshana**, CORDEA Davanagere - 'Biodiversity & Medicinal Plants Cultuvatuin conservation and their utilization for better health', 07-03-2025.
- **Veerupaxi B Baligatti**, Sri Basaveshwara FPO, Sutagatti Taluk. Bailhongal Dist – Belagavi – 'Difficulties in FPOs', 28-02-2025.
- **Maruthi Rao**, Soil Trust, Bengaluru – 'Soil Fertility', 21-02-2025.
- **Dr. Parvatha Gouda**, District Ayush Officer, Koppal. – 'Medicinal crops and traditional healers', 14-02-2025.
- **Mehaboob** Pharmacist - 'Cultivation, value addition and Marketing of Velvet beans', 07-02-2025.
- **Vinay Kumar Patil, Pharmacist**, Suprem Farm Wonders. Hubballi - 'Cultivation, value addition and Marketing of Lemmon Grass' 31-01-2025
- **Dr. Jagannatha Rao**, Professor, University of Trans-Disciplinary (TDU) Health Sciences and Technology, Bengaluru - 'The general information on Medicinal Plants: Guidelines for farmers' 24-01-2025.
- **Mr. Mahi**, Prakruthi, Pharmacist, Naturals, Bengaluru and Hyderabad – 'Cultivation and Marketing of Sahthavari and Stevia', 17-01-2025
- **Shankregouda**, Progressive Farmer, Muddenahalli, Ranibennuru - 'Holistic farming and Guidelines for Farmers', 10-01-2025.
- **Mr. Mahi** Pharmacist, Prakruthi Naturals, Bengaluru and Hyderabad - 'Cultivation and Marketing of Lemon Grass', 03-01-2024.

DEPARTMENT OF PHYSICS



- 2nd International Conference on Applied Research in Engineering Sciences" (ICARES-2025) was organised by Department of Physics, Chemistry, Mathematics and Humanities during 20 & 21, February 2025. The event was inaugurated by the Chief guest Prof. Siva Umamathy, Distinguished Professor, IISc, Bengaluru motivated the participants with his inspiring words. The two-day event consisted of one Keynote Address, four invited talks and oral presentations. Best oral presentations were awarded during the Valedictory session.

Publications in (National/International) Journals

- **Seema Aggarwal**, Monica Anand – 'Exploring strain-driven structural and optical responses in twin graphene', International Journal of Computational Materials Science and Engineering, (2025), 2550011, PP14.
- **B. P. Srilakshmi, A. Jagannatha Reddy, M.R. Ambika**, Sherry Shajan Kuttukaran, Yeshwanth H. Reddy, N. Nagaiah, D.N. Deepika, Kalappa Prashantha – 'Exploration of the gamma-ray shielding capabilities of tungsten oxide and chromium-infused silicone rubber composites', Radiation Physics and Chemistry, Vol. 232 (2025) 112661.
- Sidharth S Menon, S. Arshia, Amarnath Pasupathi, Arun Prasath Ramaswamy, Karunakara Naregundi, **Yashodhara Indaje**, Arvind Kumar Yogi and Yugeswaran Subramaniam – 'High-entropy oxide reinforced HDPE polymer composite: A novel approach to gamma-ray shielding'. Materials Science & Engineering B. 318 (2025) 118262, 2025.
- Sarvesha Chandra Shyagathur, Jayadev Pattar, **K Mahendra**, Anil Halaudara Nagaraja Rao, R Sreekanth, Ganganagappa Nagaraju - 'Visible light-driven degradation of Brilliant Green and Indigo Carmine organic contaminants using SnS₂/GCN/rGO and CuS/GCN/rGO ternary composites – A comparative study', FlatChem Vol.49 (2025) 100805.
- Sarvesha Chandra Shyagathur, Jayadev Pattar, Anil Halaudara Nagaraja Rao, R Sreekanth, **K Mahendra**, Ganganagappa Nagaraju - 'Engineering Z-scheme SnS₂/rGO/g-C₃N₄ ternary photocatalysts for efficient degradation of malachite green and murexide dyes under visible light', Journal of Molecular Structure, Vol. 1329 (2025) 141366.

Paper presentation in National / International Conferences

- **Sherry Shajan Kuttukaran** - 'Novel Trilayered Polymer Composite - A radiative protective medical wear', 35th Indian Association for Radiation Protection (IARP) National Conference (IARPNC-2025), Mangalore University, 29 - 31 January 2025
- **Sherry Shajan Kuttukaran** - 'Graded Polymer Composites: A Potential Alternative to Lead for Gamma Shielding', 24th National Symposium on Radiation Physics (NSRP-24), Bhabha Atomic Research Centre (BARC), Mumbai, 27 - 29 March 2025.
- **Yeshwanth H Reddy** - 'TiC₂ MXene's physics, chemistry and electrochemistry-Energy storage', 2nd International Conference on Applied Research in Engineering Sciences (ICARES-2025), RIT, Bengaluru on 20-21 February 2025.
- **B. P. Srilakshmi** - 'Engineering Polymer Composites for Enhanced Thermal, Mechanical, and Radiation Shielding Properties', 35th National conference (IARPNC-2025) on radiation protection for sustainable nuclear energy: Adapting to climate and technological changes, Mangalore, January 29 -31, 2025.
- **B. P. Srilakshmi** - 'Fabrication and Characterization of Lightweight WO₂/Gd₂O₃/silicone Composites for Low energy gamma shielding applications' 24th National Symposium on Radiation Physics (NSRP-24) on Reactor and Radiation Physics, BARC, Mumbai, March 27-29, 2025.

Funded Projects

- **Dr. Sandhya K L** - 'Liquid crystal as matrices for nanomaterial assembly-manipulation' Science and Engineering Research Board (SERB). Grant: Rs. 29.52 lakhs
- **Dr. Ambika M R** - 'Flexible and Graded polymer composite radiation shields for medical applications' RIT SEED GRANT (Ongoing), Grant: Rs. 3.90 lakhs.
- **Dr. Ambika M R** - 'Radiative protective qualities of wearable, non-toxic & layered polymer composites with multifillers' Department of Atomic Energy, Board of Research in Nuclear Sciences, Grant: Rs. 39.66 lakhs.

- **Dr Anil Kumar G N** - 'Development of MOF-derived and spinel-based Metal Oxides for battery applications' RIT seed grant, Grant: 5.5 lakhs.

Achievement/s, Awards/Prizes by Faculty/ Staff/ Students

- **Yeshwanth H Reddy** received Best Presentation Award- 'TiC₂ MXene's physics, chemistry and electrochemistry - Energy storage' presented at the 2nd International Conference on Applied Research in Engineering Sciences (ICARES-2025) held at MSRT during 20 - 21 February 2025.
- **Srilakshmi B P** has been rewarded with NUCLEONIX - ISRP AWARD for securing second place in the oral presentation category for the research work entitled 'Fabrication and Characterization of Lightweight WO₂/Gd₂O₃/Silicone Composites for Low Energy Gamma Shielding Applications', presented at the 24th National Symposium on Radiation Physics (NSRP-24), organized by the Indian Society for Radiation Physics (ISRP) in collaboration with the Bhabha Atomic Research Centre (BARC) and the Board of Research in Nuclear Sciences (BRNS), Mumbai from 27th to 29th March, 2025.
- **Sherry Shajan Kuttukaran** has been awarded Best Presentation Award - 'Novel Trilayered Polymer Composite - A radiative protective medical wear', presented at the 35th Indian Association for Radiation Protection (IARP) National Conference (IARPNC-2025) held at Mangalore University, January 29 - 31, 2025.

MASTER OF COMPUTER APPLICATIONS



- The Department of Master of Computer Applications conducted a 2-day Student Development Programme on "Mobile Application Development: An Industry Perspective" on February 6 - 7, 2025, for 3rd semester students. 107 participants gained practical experience in Android application development using

Android Studio and were introduced to Flutter. The workshop featured interactive sessions and real-time coding exercises for building and testing mobile applications.



- **Student Development Programme on Mobile applications: An Industry Perspective:** The conducted a One-day Partial Delivery session for MCAE43 – Software Testing on 2nd March 2025, with 107 3rd semester students. The session covered Manual and Automation Testing using Selenium, focusing on test case design, defect tracking, and the software testing life cycle. Hands-on exercises helped students apply automation in web application testing, aligning theory with industry practices.
- **Partial delivery on Software Testing:** The Department of MCA organized a Partial Delivery session on Mobile Application Development for 3rd semester MCA students on 03.01.2025. The resource person, Mr. Punatar Aakash from Sitetracker, introduced Android Studio to start the session. Students were guided to code in Android Studio using Kotlin and Java to understand session concepts. The speaker also introduced Flutter and shared tips on quickly developing logical thinking.



- The Department of MCA, with the Computer Society of India, organized a Two-day Student Development Programme on Python Web Development using Flask on 10 & 11 March 2025. Aligned with the MCA I-Semester curriculum, it offered hands-on training

in Flask basics, routing, templates, MongoDB, REST APIs, and deployment. Students built functional projects, strengthening their problem-solving skills and backend development proficiency.



- In association with the Computer Society of India, organized a technical seminar, 'The Threat Horizon: Navigating the Evolving Data Security Landscape', on March 18, 2025. The three-hour interactive session exposed first-semester MCA students to cybersecurity challenges, threat mitigation, cyber forensics, and career opportunities. Expert talks, case studies, and Q&A enhanced students' practical knowledge and industry readiness.

Publications in (National / International) Journals

- **S. Ajitha, Sanjay G. Gouda** – 'Leveraging Pre-Trained Models for Accurate Medicinal Plant Classification', GRENZE International Journal of Engineering and Technology, Vol. 11, (2025), pp. 3004-3010.

Paper presentation in National / International Conferences

- **Geetanjali R** - 'Integrating Machine Learning into the Analysis of the UK's Power Generation Mix: Insights for Future Energy Policy', at the International Conference on Innovation for Sustainability: New Technology and Business Models, on 3rd and 4th February 2025.
- **S. Ajitha, Geetanjali R, and Thushar Thimmaiah N. K** - 'Speech Emotion Recognition using Machine Learning' in the technical session on Artificial Intelligence at the International Conference on Artificial Intelligence and Data Engineering (AIDE), held at Nitte, Mangaluru, on 6th and 7th February 2025.

Guest Lecture delivered by the department faculty

- **Dr. Manjunath M** – 'IoT 4.0: The Role of Internet of Things and Smart Robots in Industry, Healthcare, and Smart Cities', Department of Physics and Computer Science, R.T.E.S Society's Arts, Science and Commerce Degree College, Ranebennur, Haveri, 18.04.2025 to 20.04.2025.
- **Dr. Manjunath M** – 'IoT – From Sensors to Strategies: Harnessing IoT for Data-Driven Decisions', Department of MCA, Atria Institute of Technology, Bengaluru, 15.04.2025

Achievement/s, Awards/Prizes by Faculty/ Staff/ Students

- **S. Ajitha, Geetanjali R, and Thushar Thimmaiah N. K** received the Best Paper Award for their presentation 'Speech Emotion Recognition using Machine Learning', at the International Conference on Artificial Intelligence and Data Engineering (AIDE), held at Nitte, Mangaluru, on 6th & 7th February 2025. The paper was recognized for its innovative approach to applying machine learning in emotion recognition.
- **Pankaj Teron** secured 3rd place in the Javelin Throw event at the RIT Sports Day held on 11th January 2025. His performance showcased strength, focus, and dedication, earning him a well-deserved podium finish in this competitive college event.

MASTER OF BUSINESS ADMINISTRATION



- Workshop on Digital Marketing was conducted on 17th & 18th January 2025. Mr. M.S. Kumar, Founder, National Institute of Digital Marketing was the Speaker for the Workshop on Digital Marketing. The main objective of the Workshop was to give importance of analytics in measuring the success

of campaigns, to understand the process of creating and executing marketing campaigns.



- HR Summit 2025 was conducted on 24th & 25th January 2025. Ms. Manu Srinivasan, HR Leader-Crediwatch, Mr. Harsha Krishnakumar, Associate Director, Marketing and New Business, Ms. Amulya, Head HR, Videonetics, Mr. Sameera Bharadwaj, Senior Director- TCS Interactive, Ms. Rashmi Rajashekar, Senior Manager, Wilmar Group were the Speakers for HR Summit 2025. The HR Summit aims to have comprehensive deliberations and helps to create a valuable networking opportunity.



- International Conference on "Innovation for Sustainability: New Technologies and Business Models" was conducted on 3rd & 4th February 2025. Mr. Michael Joseph, Adecco was the Guest Speaker for the International Conference. The main objectives of the Conference were to Showcase Case Studies and Success Stories along with Sustainable Business Models, Facilitate Knowledge Exchange and Encourage Collaboration, Engage in Interactive Workshops, Address Policy and Regulatory Challenges.

Publications in (National /International) Journals

- **Dr. Deepak R** - 'Predictive Modeling of Customer Satisfaction in Computer Hardware Product Returns: A case study in Bengaluru, in the Journal of Information Systems Engineering and Management, 10 (12s), February 2025
- **Dr. Deepak R** - 'Return Policy and Consumer Behaviour: Examining Return Frequency and Patterns of Computer Products in India', Journal of Information Systems Engineering and Management, 10 (26s), February 2025.
- **Dr. Rizwana M-** 'From Vision to Venture: Raksha Shenoy's entrepreneurial journey with Tapas Foods', in the CASE Journal, March 2025, <https://doi.org/10.1108/tcj-05-2024-0151>.
- **Dr. A. Mahalakshmi** – 'A study on Financial Health in Small Business by using Structural Equations Modelling', SEEJPHV, Vol. XXV S2, December 2024.
- **Dr. T. Mohanasundaram** - 'Power loss reduction and voltage profile enhancement by reconfiguration of radial distribution system with hybrid optimization method', in Thermal Science and Engineering Progress, 57, January 2025.
- **Dr. T. Mohanasundaram** – 'Volatility spillover and Leverage Effect in Indian Stock Market: A Time Series Investigation', Business Intelligence and Data Analytics, Smart Innovation, Systems and Technologies, 413, Springer, Jan-Mar 2025.
- **Dr. Arunkumar D.C** – 'Institutional Economics of Tourism and Security: Insights from Tourists and Industry Operators', International Journal of Innovative Research and Scientific Studies, Vol. 8, No.2, 2025.

Paper presentation in International /National Conferences

- **Dr. Rizwana.M** – 'Refining Academic Writing and Elevating Research Publications & Citations', at Kristu Jayanti College, Bengaluru from 10.02.2025 to 17.02.2025
- **Dr. Mohanasundaram T** – 'Business Analytics and Intelligence" at IIM Bangalore from 09.12.2024 to

11.12.2024

- **Mrs. S.B. Rashmi** – '7-Days Online Workshop on Research Methodology and Publication Ethics', at Star International Foundation for Research and Education from 05.03.2025 to 11.03.2025.
- **Mrs. S.B. Rashmi** – 'The Pedagogy and Research Module', Theivanai Ammal College for Women, TM, 24.02.2025 to 28.02.2025.
- **Dr. S. Bharath Sankar** – 'Industrial Engineering and Operations Management', at Singapore University of Social Sciences, Singapore from 18.02.2025 to 20.02.2025.

Guest Lectures Invited

- **Mr. Nachiket Save**, Marketing Manager, Fintopedia Private Limited – 'Intra-College competition on Money Mania Management', on 18-02-2025

DEPARTMENT OF ARCHITECTURE

- School of Architecture, RIT conducted a 3- day Workshop on 'Architectural Dialogue: Advancing collaborative practices in Education' from 19th to 21st February, 2025 for faculty. The workshop drew the participation of faculty from other architectural colleges also and the sessions were led by dynamic and diverse speakers from the industry.
- Conducted a 3-day Hands-on Workshop on 'Metal and Mesh Sculpture Making', from 25th February 2025 to 27th February 2025 with resource person Tejendra Singh Baoni. Students who attended the workshop enjoyed the process of making an art installation using metal.



- Conducted a 3 Days Landscape workshop 'Terrain' on sustainable urban landscapes from 10th March 2025 to 12th March 2025. The workshop was attended enthusiastically by both postgraduate students and faculty.
- Organized a 5-Day Faculty Development Programme titled 'New Horizons: Built Spaces in the Evolving Urban Fabric' from 10th to 14th February 2025. The programme was graced by premier experts from Bangalore who specialise in architecture, civil engineering, planning, conservation.
- Conducted a 5-day faculty development program from 3rd March - 7th March 2025 on 'Build Smarter and Faster with BIM (Building Information Modeling)'. The programme focused on improvement of software skills for both faculty and students.
- The department fest INSPIRIT was held in the month of March with a number of cultural, sports and academic activities. The final culmination of the event took place on 20th and 21st March 2025 with a mix of academic sessions where notable and award winning architects from India presented their works, and cultural sessions which saw the involvement of both students and faculty.

Guest Lecture/s – Invited

- **Ar. Akshay Madapura**, Computational Design Specialist - 'Technologies in Architecture', 06-01-2025
- **Ar. Darshan Dilipkumar**, Parametric & Computational Designer - 'Artificial Intelligence in Architecture', 10-01-2025
- **Ar. Sanjay Mohe**, Founder Partner Mindspace Architects - 'Housing - Integrating the five elements of nature', 25-03-2025

Achievement/s, Awards/Prizes by Faculty/ Staff/ Students

- **Sunaina R. Das**, 6th semester student at SOA, RIT was awarded 1st place in the Rangoli Competition and 1st place in Clay Modelling Competition at the 24th VTU State Level Youth Festival "INTERACT 2025" held at Global Academy of Technology, from 24.03.2025 - 27.03.2025.

- **Meghana Hanumanth Naik** and **Hemanth Gowda S R**, 6th semester students at SOA, RIT were awarded 2nd place for an installation at the 24th VTU State Level Youth Festival "INTERACT 2025" held at Global Academy of Technology from 24.03.2025 - 27.03.2025.
- **Advait Jagannatha H., R Pranesh, Viraansh L and Likith Sagar B S** from 8th, 4th and 2nd semesters won 1st place in 100 mtrs Relay at MSRIT - 52nd Annual Athletic Meet 2024-25 held on 11.01.2025
- **Sathvika D K, R Rajashree, Yashi R Solanki and Ann Aby** from 10th and 6th semesters won 1st place in 100 mtrs Relay at MSRIT - 52nd Annual Athletic Meet 2024-25 held on 11.01.2025
- **Likith Sagar B S** from 2nd semester won 3rd place in long jump and 2nd place in 200 mtrs run at MSRIT - 52nd Annual Athletic Meet 2024-25 held on 11.01.2025
- **Sathvika D K** from 10th semester won 1st place in 800, 1500 and 5000 mtrs and 2nd place in 400 mtrs at MSRIT - 52nd Annual Athletic Meet 2024-25 held on 11.01.2025

TRAINING & PLACEMENT

The Main Highlights - 2025 batch (ongoing)

Number of companies: 219 Companies

Total Number of Offers: 1275 offers

- **Highest Package:**
D.E. Shaw India: CTC:
58.30 LPA
2 Students selected from CSE(AIML) & AIML
- **Highest Stipend:**
Morgan Stanley: Stipend: 87,000/- per month
8 Students selected from
CSE-2, ISE-3, CSE(CY)-1, AIDS-1, AIML-1
- **International Placement (Dubai):**
Sobha Construction:
CTC: 5000 AED/month
2 Students selected from Civil

International Placement (Japan):

- **Dai-Ichi Dentsu Ltd:**

CTC: JPY 6,416,640

1 Student selected from Mechanical

- **2. Hitachi Plant Construction Ltd:**

CTC: JPY 6,735,000

1 Student selected from Mechanical

The Main Highlights - 2026 batch (Ongoing)

- **Highest Package:**

Microsoft: CTC: 51 LPA

2 Students selected from CSE & ISE

- **Highest Stipend:**

Microsoft: Stipend: 1,25,000/- per month

2 Students selected from CSE & ISE

DEPARTMENT OF EXTRA CURRICULAR ACTIVITIES



- As a new addition to Shoutout 15.0, DECA organized its inaugural intra-collegiate short film competition on April 5th, 2025, at the ESB Seminar Hall-1. The event aimed to broaden the festival's reach by involving aspiring filmmakers and cinematographers. The screening featured a variety of short films, including suspense, drama, and philosophical themes, each receiving commendations from the audience. While all entries were exceptional, the standout films were recognized and awarded for their creativity and storytelling prowess.



- In March 2025, DECA hosted the 15th edition of its annual intra-collegiate theatre festival, Shoutout 15.0, at the ESB Seminar Hall. Over three days - March 6th, 7th, and 8th - the event showcased a diverse array of skits and plays. The Ramaiah Theatre Society, comprising DECA clubs Chiraranga and Theatrix, participated with enthusiasm and competitive spirit, earning multiple awards and accolades from esteemed judges. Renowned figures from Kannada, Hindi, and English theatre were invited to adjudicate, praising the students' passion and involvement in the theatrical arts. The festival also attracted an energetic audience, whose applause and engagement contributed to its resounding success





- Continuing its tradition of participation, DECA sent a contingent of 45 members to the 24th VTU Youth Festival, held at Global Academy of Technology, RR Nagar. The festival, held during 24th to 27th of March, celebrated the rich cultural heritage of Karnataka and the dynamic spirit of Bengaluru. Our contingent engaged in all 25 events across music, theatre, literary, and fine arts categories, securing multiple awards and contributing to the college's runners-up position. This achievement underscores DECA's commitment to fostering artistic excellence and cultural engagement among students.

DEPARTMENT OF SPORTS



- Organized 52nd Annual Athletic Meet on 11th January 2025 in Ramaiah Sports Ground. All 20 departments Staff & Students participated in the Annual Athletic Meet March Past, around 2,000 students took part in the various Athletic events. Dr. Parswanath H V, Chief Executive, GEF & Gen. Sc, and Sri. G Ramachandra, COF, GEF & Gen. Sc, were the Chief Guests of the Program. Athletic Meet declared by the President of the Event Dr. NVR Naidu, Principal, RIT. The program witnessed by Dr. Pradeep Kumar Dixit, Vice-Principal, RIT, Dr. Archana, Registrar Academic, Dr. G S Prakash, COE and Sri. Mahadev Kokkari, Registrar Administration, RIT. Around 12 events have conducted for both boys & girls and some events also conducted for the College Staff.

Sports Achievements



- **CHAMPIONS** - In All India Inter Collegiate Basketball Championships held at BITS PILANI, Goa from 27th to 30th March 2025.



- **CHAMPIONS** - In All India Inter Collegiate Basketball Championships held at ALLIANCE University on 18th & 19th March 2025.



- **RUNNERS:** Inter Collegiate Basketball Tournament, held at St. Joseph's Institute of Management, B'lore on 5th & 6th Feb. 2025



- **RUNNERS:** Inter Collegiate Basketball Tournament, held at Mt. Carmel College, B'lore on 10th & 12th Feb. 2025
- **RUNNERS:** Inter Collegiate Basketball Tournament, held at CHRIST University, B'lore on 27th & 28th Feb. 2025

- **RUNNERS:** Inter Collegiate Basketball Tournament, held at REVA University, B'lore on 9th & 10th March 2025

Athletics



- Athletic Men Team Secured Men Team Championship Trophy by Winning 4 Gold & 1 Silver Medal in VTU State Level Athletic Meet happening in JNNCE Shivamogga from 14th to 18th March 2025



- **Mr. Tanish K S** of 6th Semester Civil Secured Gold Medal in Hammer Throw Event in VTU State Level Athletic Meet happening in JNNCE Shivamogga from 14th to 18th March 2025



- **Mr. Sampath Hegde** of 1st Semester M. Tech Secured Gold Medal in Decathlon Event in VTU State Level Athletic Meet happening in JNNCE Shivamogga from 14th to 18th March 2025



- Men Team, Secured Gold Medal in 4x100 Mtrs Relay Event in VTU State Level Athletic Meet happening in JNNCE, Shivamogga from 14th to 18th March 2025.



- **Mr. Dhanush S Gowda** of 8th Semester ISE Secured Gold Medal in Triple Jump Event in VTU State Level Athletic Meet happening in JNNCE Shivamogga from 14th to 18th March 2025



- **Mr. Sampath Hegde** of 1st Semester M. Tech Secured Silver Medal in Discuss Throw Event in VTU State Level Athletic Meet happening in JNNCE Shivamogga from 14th to 18th March 2025.

NEW APPOINTMENTS

Master of Computer Applications



- **Ms. Sahana**, joined the Department of MCA as Assistant Professor. She holds a Bachelor's and Master's degree in Computer Applications. Her areas of interest include Machine Learning, Data Mining, Design and Analysis of Algorithms, Java, and Python Programming.



- **Ms. Swathi M** joined the Department of MCA as Assistant Professor, she has 7 years of experience in teaching and pursuing a Ph.D at VTU. Her areas of expertise include Deep Learning, Machine Learning, .NET, J2EE, Web Development, DBMS, and Cybersecurity.



- **Ms. Deepali U** joined the Department of MCA as Assistant Professor, she is a dedicated software professional with 1 year of experience in Software Development and Teaching. She is proficient in Java, C++, Web Development, React and JavaScript. She is passionate about learning and contributing to organizational growth through technical and problem-solving skills.

The soil is the great connector of lives, the source and destination of all. It is the healer and restorer, by which disease passes into health, age into youth, death into life. Without proper care for it we can have no community, because without proper care for it we can have no life.
- Wendell Berry

VARIOUS INSTITUTIONS / CENTRES UNDER GOKULA EDUCATION FOUNDATION (GEF)

RAMAIAH INSTITUTE OF TECHNOLOGY

RAMAIAH HIGH SCHOOL

RAMAIAH MEDICAL COLLEGE

RAMAIAH MEDICAL COLLEGE HOSPITAL

RAMAIAH INSTITUTE OF NURSING EDUCATION & RESEARCH

RAMAIAH DENTAL HOSPITAL

RAMAIAH COLLEGE OF PHARMACY

RAMAIAH COLLEGE OF ARTS, SCIENCE & COMMERCE

RAMAIAH COMPOSITE PRE-UNIVERSITY COLLEGE

RAMAIAH VIDYANIKETAN

RAMAIAH INSTITUTE OF MANAGEMENT

RAMAIAH COLLEGE OF LAW

RAMAIAH ADVANCED TESTING LABORATORY

RAMAIAH INSTITUTE OF PHYSICAL MEDICINE &
REHABILITATION (PHYSIOTHERAPY)

RAMAIAH POLYTECHNIC

RAMAIAH MEMORIAL HOSPITAL

RAMAIAH COLLEGE OF EDUCATION

RAMAIAH INTERNATIONAL MEDICAL SCHOOL

RAMAIAH CLINICAL RESEARCH CENTRE

RAMAIAH HARSHA HOSPITAL

RAMAIAH UNIVERSITY OF APPLIED SCIENCES

RAMAIAH INDIC SPECIALITY AYURVEDA

RAMAIAH PUBLIC POLICY CENTRE

RAMAIAH INNOVATION CENTRE FOR HEALTHCARE
TECHNOLOGIES

RAMAIAH LEENA HOSPITAL

RAMAIAH NEHA PRAKASH HOSPITAL

RAMAIAH CLINIC

RAMAIAH SUNSHINE AYURVEDA CENTRE, PENANG,
MALAYSIA

RAMAIAH QUALITY ASSURANCE CELL

RAMAIAH INTERNATIONAL CENTRE FOR
PUBLIC HEALTH INNOVATION

Centres of Excellence at RIT

- ▲ Imaging Technologies
- ▲ Antennas and Radio Frequency Systems
- ▲ Advanced Materials Technology
- ▲ Bio and Energy Materials Innovation
- ▲ Cyber Physical Systems
- ▲ Schneider centre for Building Automation