

DR. M.S. RAMAIAH



RAMAIAH
Institute of Technology

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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 this 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. Nagaraju Kottam

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 1584 Reputed
Engineering Institutes
in India

#31

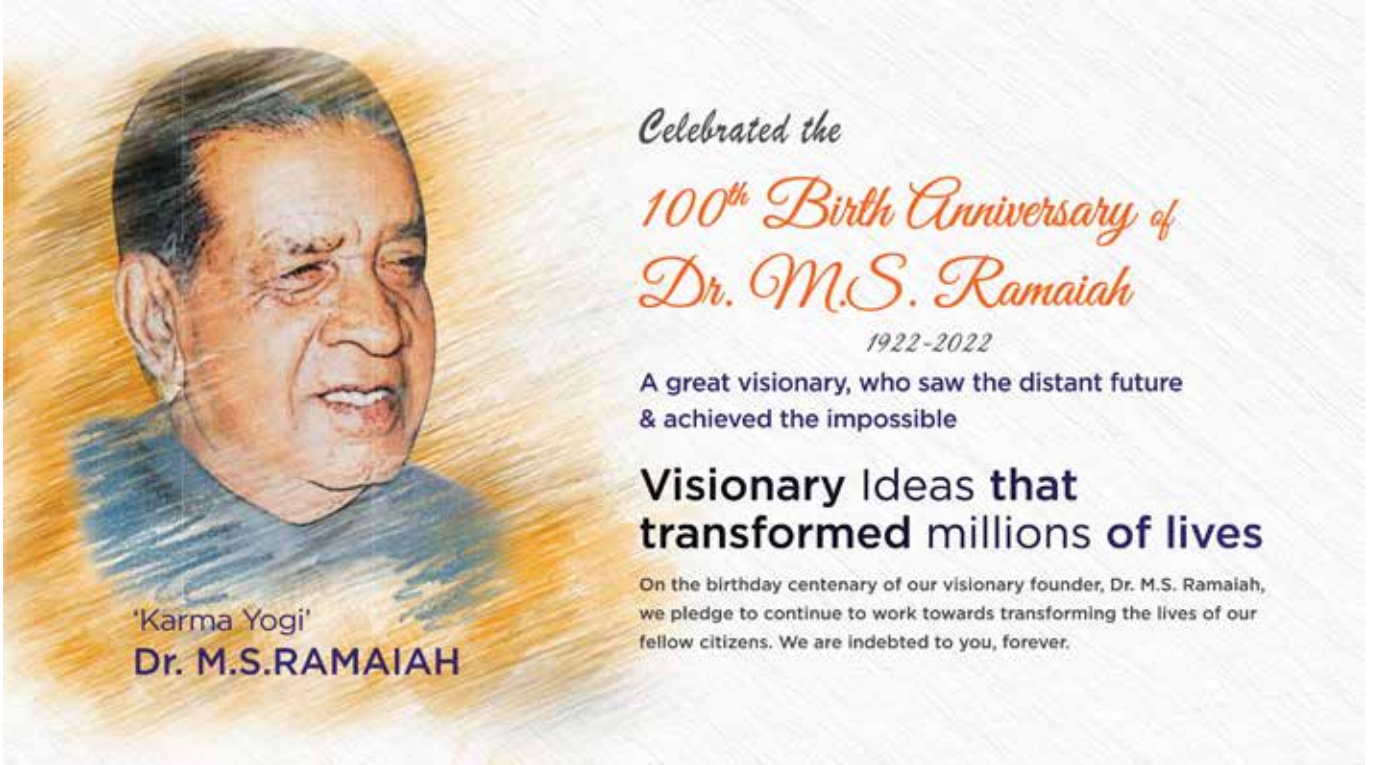
Among 131 Reputed
Schools of Architecture
in India



- As per National Institutional Ranking Framework, MoE, Govt. of India. 2025

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.

COLLEGE EVENTS



- Indian National Academy of Engineering-Bangalore Chapter (INAE-BC) and Gokula Education Foundation (GEF), Bengaluru have conducted a One-Day Environment and Green Energy workshop titled **PARYAVARAN-2025 on 14th September 2025**. **Padma Vibhushana Dr. V K Aatre**, Former SA to RM and Secretary, DRDO inaugurated the function, Dr. M R Seetharam, Chairman, Gokula Education Foundation presided over the function. In the post lunch session, 8 student groups from different colleges have presented on various Environmental aspects.



- The Open Day Project Exhibition "**PRADARSHANA – 2025**" was held at the Ramaiah Institute of Technology Bangalore on **4th June 2025**.



- Dr. V. Narayanan**, Secretary of the Department of Space and **Chairman of ISRO**, delivered the **Dr. M. S. Ramaiah Memorial Lecture** on **21 April 2025** at the M. S. Ramaiah Institute of Technology in Bengaluru. In his address, he **highlighted India's space achievements and future direction under ISRO's leadership**, focusing on innovation, strategic vision, and the importance of science and technology in national development. He engaged students and faculty, underscoring commitment to exploration, research leadership, and inspiring the next generation of scientists and engineers.

DEPARTMENT OF MECHANICAL ENGINEERING



- On May 5th March, 2025, the Department of Mechanical Engineering MSRIT organized the industrial visit to Honda Motorcycle & Scooter India Pvt. Ltd. (HMSI)



- On February 26th March, 2025, the Department of Mechanical Engineering MSRIT organized the industrial viist to Central Manufacturing Technology Institute (CMTI), Bengaluru



- The Department of Mechanical Engineering and the Department of Industrial Engineering and Managment at Ramaiah Institute of Technology successfully organized a one-week Faculty Development Program from 1st to 6th September 2025, titled "Cutting Edge Innovations in Next-Generation Composites: Materials, Mechanics

and Applications". The diversity of sessions from polymer and thermoplastic composites to ceramics, metal matrix composites, and functionally graded materials ensured that participants were exposed to both fundamental concepts and advanced industrial practices. The industrial visit to NAL (National Aerospace Laboratories) offered rare hands-on exposure to real-world aerospace applications, bridging the gap between classroom learning and practical engineering challenges.

Publication in (National/International) Journals:

- Mahantesh SMatur**- "Investigation of Microstructural and Hot Corrosion Behaviour of CoMoCrSi/WC-12Co Microwave Cladding on Titanium Substrate", Journal of Bio-and Tribo-Corrosion, Volume 11, Issue 3, June 2025, <https://link.springer.com/article/10.1007/s40735-025-00997-8>
- Sriraam N., Sanjay H. S., Purnima B. R., **K R V Subramanian**, Krut'ko, V., Mitrokhin, O., and Zhernov, Y. – "A critical review of geriatric care in India with regard to the needs, challenges and opportunities: a wearable care approach", Informatics for Health and Social Care, 50(2), 63–80. <https://doi.org/10.1080/17538157.2025.2488747>
- Bharath V., **K R V Subramanian** - "Experimental Analysis and Optimisation Techniques for Screen Printing of ZnO Nanomaterials", Instrum Exp Tech 68, 319–327 (2025). <https://doi.org/10.1134/S0020441225700265>
- Vishwanath Koti**, Nandan B J-"Exploring Autonomous Mobile Robot Technologies for Indoor Cleaning: Path Planning, Obstacle Avoidance, and Sensor Integration", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue No. 02 (2025), Pages 1234 - 1243
- Vishwanath Koti**, Mohammed Hamdan J-"Vision-Based Framework for Autonomous Driving Using Stereo Vision", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue, No. 02 (2025), Pages 1222 – 1233.
- Vishwanath Koti**. - "Fabrication and Wear Characteristics of Al6066-Boron Carbide Particulate Composites", J. Inst. Eng. India Ser. D (2025). <https://doi.org/10.1007/s40033-025-00887-w>

- **Anilkumar T, S M Aradhyam Esvariah K S** - "Optimization of Machining and wear Behavior of Al6061 composites Reinforced with SiC Particles", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue, No. 01 (2025).
- **Anilkumar T, Prakash Kumar, Aditya Kudva S** - "Synthesis and characteristics of Fe/Ni/Cr oxide nanoparticles/PLA hybrid composite coatings on Mg-Zn-Ca alloy", Tuijin Jishu/Journal of Propulsion Technology, Volume 35, Issue, No. 01 (2025).
- **Kumar R**- "A Novel Plasma Spray NiCr/Al₂O₃ and Cr₂C/ Al₂O₃ Coating Design for Hot Corrosion Prevention and to Enhance the Efficiency in Boiler Tubes", Malaysian Journal of Chemistry, 2025, Vol. 27(3), 602-612
- **Rajendra P**- "Mechanical and fractography behavior of nano and micro boron carbide particles reinforced Al2014 alloy composites for aerospace applications", Research on Engineering Structures & Materials, Vol.2, Issue 1, <https://jresm.org/article/resm2025-601me1229rs/>
- **Nandeesh HL, Deepak S Kumar R** - " Evaluation of Flow Stress in Turning Operation for Hybrid Aluminum 6061 Composite using Zerilli-Armstrong Model", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue, No. 02 (2025).
- Sahana B, **Kumar R** - "A Review on AI-Powered Surveillance System using Computer Vision for Public Safety", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue, No. 02 (2025).
- Madhu Prakah, **Kumar R** - "A Review on Ai-Integrated Helmet-Mounted Thermal Imaging Systems forVictim Detection in Disaster Response Scenarios", Tuijin Jishu/Journal of Propulsion Technology, Volume 46, Issue, No. 02 (2025).
- **S. Rajeesh, Girish V. Kulkarni, S. Hemavathy** - "Optimization of Machining Parameters for AL-Li Alloy to Enhance Surface Smoothness Using the Taguchi Method", Journal of Mines Metals and Fuels, 73(5): 1293-1302; 2025. DOI: 10.18311/jmmf/2025/47963.
- **Arunakumara P C, M Vedanth, Koushik Gowda K, Jesse Athaide Fransico, Syed Abyan**- " Design and Development of a Manually Operated Hydraulic Corn Husk Cup Making Machine", Tuijin Jishu/Journal of Propulsion Technology, Vol. 46 No. 02 (2025)
- Gnanashree S Datta, **Lokesha K** - "A Review on Autonomous Spyderbot", Tuijin Jishu/Journal of Propulsion Technology, ISSN: 1001-4055 Vol. 46 No. 2 (2025)
- Pankaj R Jadhav, Sunil Kumar Shetty, **B. K. Naveen Kumar, Madeva Nagara**- "Synergistic Effect of Graphite and B4C Particles on Enhancing the Hardness and Wear Characteristics of A356 Alloy Composites", Journal of Bio- and Tribo-Corrosion (2025) 11:111 <https://doi.org/10.1007/s40735-025-01034-4>.
- M. Hemanth Kumar, R. Saravanan, **B. K. Naveen Kumar, Raman Kumar**- "Synthesis of Aluminium Ceramic Composites: Mechanical Wear Characterization of Al7085 – B4C Micro Composites", Journal of Bio- and Tribo-Corrosion (2025) 11:109 <https://doi.org/10.1007/s40735-025-01030-8>.
- Shiva Prakash S, Santosh Kumar, **Naveen Kumar B K, Madeva Nagara**, et al.- "Mechanical characterization of alumina and graphite dual particulates reinforced hybrid aluminum alloy (Al2219) matrix composites", Research on Engineering Structures & Materials 11(5) (2025) 1947-1963 <http://dx.doi.org/10.17515/resm2024.328me0621rs>.
- **Aruna Kumara, P.C., Siddaraju, C., Srivatsan, T.S.**- "Influence of Heat and Cryogenic Treatments on Fatigue Crack Growth Behavior in a High-Strength Aluminum Alloy". J. Inst. Eng. India Ser. D (2025). <https://doi.org/10.1007/s40033-025-00926-6>
- **Jaya Christiyan K G** - "Study of optimization of process parameters on the wear behaviour of Al7075-aluminium oxide composites using Taguchi approach", Scientific Reports 15(1), July 2025, DOI: 10.1038/s41598-025-05188-6
- Kuttukaran, S.S., Ambika, M.R., **Siddaraju, C.** et al.- "Fabrication and investigation of a novel bi-layered, silicone rubber-based composite as a promising radiation shield" Journal of Radioanalytical and Nuclear Chemistry, 334, 7459–7471 (2025). <https://doi.org/10.1007/s10967-025-10216-w>
- Bharath, V., **K. R V Subramanian** - "Experimental Analysis and Optimisation Techniques for Screen Printing of ZnO Nanomaterials", Instruments and

Experimental Techniques, 68, 319–327 (2025).
<https://doi.org/10.1134/S0020441225700265>

- Gnanashree S Datta, **Loksha K** - "A Review on Autonomous Spyderbot", Tuijin Jishu/Journal of Propulsion Technology, ISSN: 1001-4055, Vol. 46 No. 2 (2025)

Guest lectures

- On April 4, 2025, Srikanth Varadharajan, Modelling Program Lead at LAM Research Pvt. Ltd., delivered a guest lecture on the overview of semiconductor technology with an industrial perspective.
- On May 14, 2025, Dr. Amarnath M, Assistant Professor at IIITDM Jabalpur, presented a guest lecture about the application of sustainable techniques to enhance machining performance.
- On 11/04/2025, Mr. K Ravindra Prasad, Director and CEO of Huber India, spoke on how thermodynamics combined with microelectronics leads to the best temperature control solutions.

Publication in (National/International) Conferences:

- Amal Manoj, **Prakrathi S**, Abhishek Rajan, Chandrashekar Bhosale and Abhishek Mishra - "A Study of fabricated 3D Printed ABS Scaffolds for Biomedical Applications", 38th National Convention of Metallurgical and Materials Engineering & National Conference on "Capacity Building in Process Metallurgy" held on 26-27th July, 2025 at NIT Rourkela, India
- **Bijayalakshmi Das**, Dhruv G, Drush Subbaiah, Gaurav Nandu Sivappa - "Mechanism and control of a strength boosting wearable device", 4th International conference on Friction based Processes (ICFP 2025), 6th to 8th September 2025, IIT Tirupati,
- **Jyothilakshi R** - "A conceptual Study on Smart Manufacturing Perspectives for Affordable and High-Performance Artificial Limb Design using AI and digital twin tools", 4th International conference on Friction based Processes (ICFP 2025), 6th to 8th September 2025, IIT Tirupati.

Guest Lecture/s – Invited

- **Dr. Arun Srinivasa**, Professor, Mechanical Engineering, Associate Dean for Student Success and also the J.N. Reddy Chair in Applied Mechanics

from Texas A & M University, United States has delivered an Expert lecture on "Responsible and Grounded AI for Teachers and Learners" at RIT on 4th July 2025.

Funded Project:

- Name of the Investigator: Dr. Jaya Christiyan K G



- Team Volante from M S Ramaiah Institute of Technology emerged as Overall Champions at DKDC Season 2 held in Goa on 1st-3rd June 2025. Excelling in both technical inspections and dynamic events despite harsh, rainy conditions, the team demonstrated exceptional engineering, adaptability, and teamwork. Their vehicle consistently cleared performance, maneuverability, and endurance tests, reflecting dedication and innovative problem-solving. This victory marks a significant achievement for the team, validating their hands-on skills and collaborative spirit



- **Syed Azmaan Ali Madni**, a third-year Mechanical Engineering student at Ramaiah Institute of Technology (USN: **1MS23ME119**), attended the International Volunteer Forum organized by the



Headway Institute of Strategic Alliances (HISA), a renowned public policy research institute, from 14th-17th August 2025 in Istanbul, Turkey. This global platform brought together 75+ youth delegates from across the world to collaborate with UN experts, global organizations, and thought

leaders through workshops, seminars, and cultural exchange programs. The forum also emphasized the UN's 17 Sustainable Development Goals (SDGs) and how we, as change makers, can collectively contribute to achieving them.

Faculty who obtain Ph.D



- Nandeesh H L obtained his doctoral degree under the guidance of Dr. Rajaneesh Marigoudar from Vishveshwaraya Technological University for the thesis titled: Study of Machinability Aspects of Aluminium Based Composites and Correlating Result Using FEM

Model.

DEPARTMENT OF CIVIL ENGINEERING



- **Site visit to Godrej Reserve Project:** Department of Civil Engineering organized a site visit to Godrej Reserve Project, Devanahalli, Bengaluru, for the M.

Tech II semester Structural Engineering students on 26th June 2025. The objective of this visit was to help them understand the practical aspects of the construction of residential and industrial structures using composite sections.

Faculty Development Program



- The faculty development program was organized from 1st September 2025 to 6th September 2025 on Sustainable Practices and AI applications in Civil Engineering highlighting its relevance in the context of sustainable

development and innovation in the construction industry. Location - ESB 415, Engineering Science Block, RIT Bengaluru.

Publications in National/ International Journals:

- **J Sumalatha**, MC Nataraja, GL Sivakumar Babu – 'Controlled low strength material with industrial by-products in the isolation of contaminated sites' International Journal of Sustainable Engineering, Vol. (18), (2025), pp 2507914.
- GB Deepak, BR Vinod, Vinayak Ashok Hosur Raje Gowda, **J Sumalatha** – 'Compaction and shear strength characteristics of clayey soil using cement and bagasse ash' International Journal of Innovation Studies, Vol. (9), (2025), pp 56-72.
- Ganesh CR, Kumar R Rao, **J Sumalatha**, Sreekeshava KS, BK Raghu Prasad – 'Minimizing Heavy Metal Contamination in Mining-Affected Soils: A Leaching-Based Approach' Soil and Sediment Contamination: An International Journal, 1- 21, (2025).
- **Srilatha N** and Nagendra Prasad K – 'Influence of induced cementation on compressibility and shear behaviour of tropical residual soils' Journal of Asian Architecture and Building Engineering, 1-21, (2025).
- Supraja Irukumati, Anantha Rama Vittal, **Santhosh Lakkur Gurunarayan** – 'Comparative analysis of classification techniques for flood mapping using Sentinel 1 SAR data' Environmental Earth Sciences, Vol.(84), (2025),pp 398.

- **Lakshmi H S, Anilkumar R** – ‘A study on adoptability of jute fibre for reinforcing cement mortar’ Journal of Tianjin University Science and Technology, Vol. (58), 2025, pp 861 – 870.
- Prashant Sunagar, Rushikesh Ghodekar, **J. Sumalatha**, Piyush Dhadge, Vedant Nawale & Prasad Ahire – ‘Research and Practice on Progressive Collapse and Robustness of Reinforced Concrete Frame Structures by Linear Static Analysis’ Lecture Notes in Civil Engineering, vol.(566), 2025, pp 163 – 175.
- Prashant Sunagar, Bhagure Aditya, **J. Sumalatha**, Mahesh Yele, Saurabh Jadhav & Shrutika Pawar – ‘Advances in Structural Systems for Tall Buildings: Emerging Developments Using Exterior Bracing and Diagrid Systems’ Lecture Notes in Civil Engineering, vol. (566), 2025, pp 177 – 192.
- Vinod B.R, **Sumalatha J** – ‘Stability Analysis of Reinforced Soil Embankments with Alccofine, Glass Fibres, Metal Mesh, and Geogrid’ Lecture Notes in Civil Engineering, vol. (570), 2025, pp 177 – 192.
- Rakhya Ranjan Nanda, Jaya Sharma, Sasmita Chand, **Lavanya Addagada**, Prangya Ranjan Rout – ‘Bio-sensing contaminants of emerging concerns: A technological leap in emerging contaminant detection’ Current Opinion in Environmental Science & Health, vol. (47), 2025, pp 100649.
- **Niranjan G Hiremath, J Sumalatha** – ‘Driver Reaction Time Analysis with Respect to Gender and Educational Qualifications of Male and Female Drivers in Indian Mixed Traffic Conditions’ Tuijin Jishu/Journal of Propulsion Technology, vol. (46), 2025, pp 107 - 121.
- Techniques for Crack Detection’, International Conference on Technological Innovations in Multidisciplinary Engineering and Sciences, The NorthCap University, Haryana, April 2025.
- Chandra Shekar V, Kiran H S, **Asha M N**, Basavaraj Biradar, Rahul– “Assessment of resilient modulus of Geosynthetic reinforced pavement base course” in Ground Improvement, Landslides and Sustainability Conference, GLS 2025, 18th and 19th July 2025 Indian Institute of Science, Bangalore.
- **N Srilatha**, Abhiram Gowd G S and Mohith H. - “Characterization of Construction Demolition waste-Tyre Crumbs mixtures for geotechnical applications” in Ground Improvement, Landslides and Sustainability Conference, GLS 2025, 18th and 19th July 2025 Indian Institute of Science, Bangalore.

Guest lectures- invited:

- **Er. A T Samuel**, Managing director, ATS Engineering consultants, services Pvt Ltd, Bangalore delivered an expert talk on Planning, Design and construction aspects of Motera Stadium-The World’s Largest Cricket Stadium, 24-05-2025 for M.Tech Structural Engineering students.
- **Er. A T Samuel**, Managing director, ATS Engineering consultants, services Pvt Ltd, Bangalore delivered an expert talk on Components of Bridges and Their Functions on 10-05-2025 for Civil Engineering students.

Guest Lectures delivered by the department faculty:

- **Dr. Asha M Nair** served as an expert panelist in the Panel Discussion during the National Conference on “Namma Lake – 2025” with the focal theme “Healthy Lakes, Healthy Lives - The Need for Conservation” on 23rd May 2025 (Friday) at the KSTA Campus, Bengaluru.
- **Er. A T Samuel**, Managing director, ATS Engineering consultants, services Pvt Ltd, Bangalore- Principles of Prestressed Concrete, 16-09-2025.

Funded Project:

- **J Sumalatha and Lakshmikanth Srinivasa Murthy** secured VGST KFIST L2 grant of 30 lakhs for project entitled ‘Design of Vertical Barriers for the Waste Containment Systems using Sustainable

Paper presentation in National/International Conferences:

- L. M. Arpitha, **R. Anil Kumar**, Zoya Fathima, R. Yeshaswini, and G. Dhanyashree – ‘Proposal of Machine Learning Algorithm for the Construction and Demolition Waste Prediction Rate’, International Conference on Technological Innovations in Multidisciplinary Engineering and Sciences, The NorthCap University, Haryana, April 2025.
- L. M. Arpitha, **R. Anil Kumar**, Zoya Fathima, R. Yeshaswini, G. Dhanyashree, and D. Roshini – ‘Comprehensive Analysis of Machine Learning

Controlled Low Strength Material made of Industrial byproducts'.

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

- **Vivek R Das** - Topper in the NPTEL online certification for the course 'Logistics & supply chain management'.

Faculty who obtained Ph.D. degree:



- **Dr. Harish ML** - The Ph.D. degree was awarded by Visvesvaraya Technological University in June 2025 for the research titled "Studies on Use of EPS Beads and Cinder in the Production of Lightweight Concrete for Sustainability in

Construction." The research was carried out under the supervision of Dr. Sumalatha J., Associate Professor, Department of Civil Engineering, Ramaiah Institute of Technology, Bengaluru.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



- **Industrial Visit:** Industrial Visit was organized for 6th Semester E & C students on 17th April 2025 to Bharath Electronics Limited (BEL-CRL), Bangalore. Dr. Ramesh Chaveli and his team addressed the students during visit. Around 50 students with faculty were present during the Industrial Visit. Faculty members Dr. Sujatha B, Dr. C G Raghavendra, Dr. Suma K V and Dr. Nuthan Prasad V accompanied the students.



- **Certification Course:** A 40-hour certification course on 'Design Verification Excellence with Universal Verification Methodology' was organized by the department for 6th semester students during 01-09-2025 to 06-09-2025. Faculty coordinators Dr. Suma K V and Dr. Reshma Verma collaborated with industry experts from VLSI sector, to provide hands-on training for digital verification of RTL Design. Around 30 students benefitted from the course and learnt to build test bench to verify the VLSI Design in System Verilog and UVM platform.

Publications in (National / International) Journals :

- Bharath Venkatagiri, **Sujatha Basa Reddy**, Sreeranjani K, Ninaada M.S, 'Emerging agricultural, forestry and marine biomass for sustainable electromagnetic interference shielding', Discover Polymers (Springer), vol.2, article no. 10, May 2025.
- V. Dankan Gowda, Sajja Suneel, **V. Nuthan Prasad**, Madan Mohanrao Jagtap, K.V.D. Prasad Shekhar Ramaswamy, Venkatesan Hariram, 'A novel approach to real-time environmental monitoring and automated air quality enhancement using smart nanostructured sensors with adaptive data processing', Nanotechnology for Environmental Engineering (Springer), 10(3), June 2025.
- B P Pradeep kumar, **Lakshmi Shrinivasan**, Varalakshmi K R, Harish S, Lavanya Vaishnavi D A, Jyothi H R, 'AI-Powered Mask Uncovering in Complex Occluded Environments', Journal of Information Systems Engineering and Management, vol. 10, No. 3, April 2025, pp. 958-970.
- **Sujatha Basa Reddy**, Bharath Venkatagiri, 'Synergistic Electromagnetic Shielding Performance of Ni@Co, GNPs, and CNTs in Polymer Nanohybrids for Stealth Applications', Polymer-Plastics Technology and Materials, Taylor and Francis, Volume Number: 64, Issue Number: 11, pp. 1777-1797, 2025

- Bharath Venkatagiri, **Sujatha Basa Reddy**, 'Sustainable Electromagnetic Interference Shielding with Biomass Waste; Intechopen, Book chapter: Doi.org/10.5772/intechopen.1009943, March 2025.
 - Jitendra R. Raol, **S. Sethu Selvi**, Sudesh K. Kashyap, Ailneni Sanketh. 'Data Fusion Mathematics: Theory and Practice', Second Edition, CRC Press, July 2025.
 - **Senthilkumar Dhanasekaran**, Harini Grama Srinath, 'Performance Enhancement of Full-Duplex NOMA in RIS-Assisted UAV Networks Through Channel-Aware Transmission Switching', IEEE Access, 13, pp. 122224 – 122241, 2025.
 - V. Dankan Gowda, T. Chippy, **V. Nuthan Prasad**, M. Belsam Jeba Ananth, K.D.V. Prasad. 'Accelerating Connections with 5G and Evolution of Vehicle Communication Technology', Digital Convergence in Intelligent Mobility Systems, ISBN Number: 9781394275243, pp. 79-100, 2025.
 - V. Dankan Gowda, P. Ribhu Abhusan, **V. Nuthan Prasad**, K.D.V. Prasad, P. Vishnu Prasanth. 'Secure Routes and Cybersecurity Challenges in Autonomous Mobility Systems', Digital Convergence in Intelligent Mobility Systems, ISBN Number: 9781394275243, pp. 125-158, 2025.
 - S. Nitya, Angshuman Khan, **M. C. Parameshwara**, M. Nagabushanam. 'Reversible quantum circuits for approximate computing with image processing application', Signal, Image and Video Processing (2025), Vol.19, Article No.715 .
 - S Nandini, **M Nagabushanam**, G S Nandeesh, M P Sundaresha. 'mU-Net-SAM-ENet: Efficient and Interactive Assistance in Lung Nodule Segmentation', Journal of Artificial Intelligence and Technology, Vol.5, Issue 9, pp. 221-229, 2025.
 - L. Raghavendra1, L. Parthasarathy, **Flory Francis**, Manjushree K. Chavan, K. Rajesh, Ashitha V. 'Modelling and Positioning D STATCOM Using an Analytical Method Based on a Multi objective Function to Enhance Microgrid Power Quality', Journal of The Institution of Engineers (India): Series B, 2025.
 - R. V. Manjunath, N. Yashaswini Gowda, **Manjunath Lakkannavar**. 'An automated deep learning model for liver tumor and skin lesion segmentation', Discover Electronics, Vol. 2, Article No. 54.
 - **Senthilkumar Dhanasekaran**, 'Performance Evaluation of Full-duplex Cooperative Downlink NOMA with Direct Link', Wireless Personal Communications, Springer, Vol. 142, pp. 527 – 541.
 - Vidyadhar Gupta, Abhinav Gupta, Amit Kumar Pandey, Tarun Kumar Gupta, **Shipra Upadhyay**, 'Impact of Fringing Fields on Electrostatic and Analog/Radio Frequency Performance of Graded Channel Junctionless Gate-All-Around Metal Oxide Field Effect Transistor', Semiconductors, Vol. 59, Issue 9, pp. 965-976, 2025
- Paper presentation in National / International Conferences :**
- Allamaprabhu B M, Shreyas A R, **C.G. Raghavendra**, Sanket U G and Mahantesh M B, "Review on Machine Learning Models for Efficient Queen Bee Identification in Beehives", IEEE, International Conference on Intelligent Computing and Control Systems (ICICCS-2025), pp. 1383-1390, 2025.
 - **Lakshmi S**, Ajay Venkit S, Manoj P, Nabeeha Ayaz, Akash Unni, "Simulation of Micro Machined Microstructures for Lung Cancer Detection", 2025, 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), 25th -26th April 2025, Ballari, India.
 - Sushant Mannolkar, **Sara Mohan George**, Mannitha R, Navya P and D. P. Bharathi, "Assistive System for Monitoring Malnutrition in Children," 2025 10th International Conference on Signal Processing and Communication (ICSC), Noida, India, 2025, pp. 761-766, doi: 10.1109/ICSC64553.2025.10968423.
 - Taradale Apoorva & Srinivasan **Lakshmi**. 'A Hybrid LSTM-RF model for Remaining Useful life prediction of Li-Ion Batteries', 2025 IEEE CONECCT conference, 13th - 14th July 2025, organized by IEEE Bangalore Section at Sterling Mac Hotel.
 - Anju G, R. Verma and **L. Shrinivasan**, 'Performance Analysis of Hybrid Vedic and Classical Multipliers with Floating Point Integration', 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd August 2025, pp. 1-6.
 - **S Sethu Selvi**, Bhagawankripa Mehta, Shefali Singh, Jaseema Feroze Mohideen 'Neuroforge-3D: Brain Tumor Detection and 3D Reconstruction with Control

System Response', IEEE North Karnataka Subsection (NKSS), International Flagship Conference (NKCon – 2025), September 2025.

- **C. G. Raghavendra**, Ashwin Alex George, Niranjnamurthy M. 'An Overview on Machine Learning Techniques for Detection and Classification of Fish in Aquaculture', IEEE, International Conference on Intelligent Sustainable Systems (ICISS-2025), pp. 1298-1302, 2025.

Guest Lecture/s – Invited:

- Aditya Shrivastava and Mr. Ajey Kalagi, NatWest Group – 'How GenAI is Transforming Industries', 21st May 2025.
- Varun Chandrashekar, Northeastern University, Boston, USA – 'Industry skills required to succeed in industrial Robotics', 23rd May 2025.
- Paul Santhosh Kiran, Visual Space, Bangalore – 'Entrepreneurship in Age of AI', 24th May 2025.
- Bindu Mohan, DTales Tech, Bangalore – 'The Art and Science of Technical Writing: A career you might not know about', 26th May 2025.
- Divay Tak, TexasReview, Bangalore – 'Global education Awareness Program', 30th May 2025.
- Mr. Chandrak J, Mr. Banu Prasad, Mr. Bharat S, Layout Engineers, Texas Instruments, Bangalore – 'Interview Preparation', 1st and 2nd August 2025.

Guest Lecture/s –delivered:

- Dr. Sethu Selvi delivered a talk on "Machine Learning vs Deep Learning" in One week workshop on "Edge AI for Engineering Research" organized by Department of EEE & EIE on 19th August 2025.

Funds:

- Workshop titled "Application of Information and Communication Technology in Blue Economy" has been selected with funding of Rs. 2,00,000/- by AICTE-VAANI Scheme, Jointly Coordinated by **Dr. C.G. Raghavendra and Dr. Rajendra Prasad P**
- **Dr. Lakshmi S** is providing technical consultancy to Dhruva Flora Biotech and Exports Pvt. Ltd. Honnavara Village, Doddabelavangla Road, for a project titled, "IOT for SMART Farming", for an amount of Rs. 1 Lakh for a duration of 18 months.

Patents:

- **Dr. Lakshmi Shrinivasan** and team published an Indian Patent titled "Development of Neurosynapse-AI-Powered Wearable for Comprehensive Neurological Health Monitoring" on 30th May 2025, the patent application number is: 202541042671

Achievements, Awards/Prizes by Faculty and students (April-June):

- **Dr. Reshma Verma and Dr. Sara Mohan George** authored the book 'Advances in State and Parameter Estimation: Theory and Practice', published by CRC Press (Taylor & Francis) in 2025.
- Final-year students Mahantesh M. B., Shreyas A. R., Allamaprabhu B. M., and Sanket U. G., guided by **Dr. C. G. Raghavendra**, carried out the project titled 'Queen Honey Bee Detection using Sound Frequency Analysis', which received funding of ₹ 4,500 from KSCST, Bangalore, under the 48th Series of the Student Project Programme (SPP)–2025.
- Under the guidance of **Dr. Sara Mohan George**, a student team including Meghna Mishra developed the project 'Assistive Smart Hat Empowering Visually Impaired' and won second prize in the FAER Scholar Program Award 2024–25.
- Final-year EC students Mahantesh M. B., Shreyas A. R., Allamaprabhu B. M., and Sanket U. G., under the guidance of **Dr. C. G. Raghavendra**, received the Best Paper Presentation Award for their research paper titled 'Multi-Frequency Band Analysis for Queen Bee Detection in Beehive Boxes' at the National Conference on New Frontiers in Apiculture, organized by the University of Agricultural Sciences, Bangalore.
- **Mohit Lingarkar** secured third place in the event Sensor Bot, organized by the Department of Mechanical Engineering during RIT Techfest 2025 on 29th March 2025
- **Rishal K** won the silver medal in the Cruiser Weight category at the 20th Amateur/Pro-Am World Muaythai Championship 2025, held in Bangkok, Thailand, from 9th to 19th March 2025.
- **Vishnu G** secured first place in the 6th edition of Aavhan, the All-India Intercollege Cricket Tournament organized by IIT Mumbai, held from 9th to 11th May 2025.

- Taradale Apoorva, 4th Semester M Tech (VLSI) & **Shrinivasan Laskshmi** received Best Paper Award Academia in 2025 IEEE CONECCT conference held on 13th and 14th July 2025 organized by IEEE Bangalore Section at Sterling Mac Hotel for the paper titled 'A Hybrid LSTM-RF model for Remaining Useful life prediction of Li-Ion Batteries'
- Sathvik Rao, 7th Semester – Individual Winner, AeroHack, organized by Collins Aerospace, Bangalore, 2nd July-18th August 2025.
- Siddhant Chougule, 3rd Semester, First Prize, Intra-Execom Hackathon, IEEE Sensors Council, 9th March 2025.
- Sohan, 7th Semester, WebHacking CTF Winner, Organized by Visiminds , 09-05-25
- Satvik Shankar, 3rd Semester, Shuttle Badminton, VTU Inter-collegiate Division Level Tournament, Cambridge It, Bangalore, 08/09/2025.
- Satvik Shankar, 3rd Semester, Shuttle Badminton, PESCE, Mandya, 11/09/2025.

DEPARTMENT OF CHEMICAL ENGINEERING



- Faculty Development Program on “**Recent Advances and Innovations in Multi-Disciplinary Composite Materials (RAIMCM-2025)**” organized jointly by the Department of Chemistry and Chemical Engineering, RIT, from 18-23 August 2025. The FDP aims to provide opportunities for faculty members and Young researchers to enrich their academic and research skills in Multi-Disciplinary Composite Materials & their development, and highlight the opportunities in the different dimensions of Composite Materials Research. Five online live sessions and 08 offline sessions were conducted

during the FDP. The FDP was attended by more than 45 participants, including faculty members and research scholars from different colleges in and around Bangalore.

Publications in (National/International) Journals:

- Rajeswari M. Kulkarni, Pratham B. Iyer, Tanvi D. Bharadwaj, K. Sachin Narendra, Bioremediation of Crystal Violet Dye Using Sapindus mukorossi Functionalized Iron-Oxide Nanoparticles from Coprecipitation Method, Asia Pacific Journal of Chemical Engineering, Q3, H-Index: 47, Q3, Impact Factor: 1.6, 2025, <https://doi.org/10.1002/apj.70150>,
- Siva Kiran RR, Dhamodhar P, The Role of Artificial Intelligence and Machine Learning in Advancing Animal Biotechnology: A Review, Archives of Razi Institute Journal, Q2, H-Index: 19, Volume 80, NO. 4, 2025, 819-832, DOI: 10.32592/ARI.2025.80.4.819, Razi Vaccine and Serum Research Institute.
- A. V. S. L Sai Bharadwaj, Navneet Kumar Gupta, D Jaya Prasanna Kumar, Aashish Priye, Dipesh Shikchand Patle, Life Cycle Assessment of Waste Source-Derived Chemicals as Adsorbents, Environmental Quality Management, Q3, Impact Factor: 1.2, H-Index: 33. 35 (1) (August 2025), <https://doi.org/10.1002/tqem.70120>, Wiley.
- C. R. Santhosh, Sampath Chinnam, Guddekoppa S. Ananthnag, Gbolahan O. Oduselu, Kumarappan Chidambaram, Nagaraju Kerru, Nagaraju Kottam and G. M. Madhu, Design, synthesis, crystal structure of novel hydrazone analogues as SARS-CoV-2 potent inhibitors: MD simulations, MM-GBSA, docking and ADMET studies, Royal Society Open Science , Q1, Impact Factor: 2.9, H-Index: 92. 12 (7) (July 2025), <https://doi.org/10.1098/rsos.250373>, Royal Society Open Science.
- CR Santhosh, Sampath Chinnam, Hrushikesh S Chaudhari, Kondapalli Venkata Gowri Chandra Sekhar, Gbolahan O Oduselu, Vishal Ahuja, Kumarappan Chidambaram, Nagaraju Kerru, GM Madhu, Eco-friendly polyethylene glycol (PEG-400): PEG mediated synthesis, in-vitro, molecular dynamics, DFT, docking, ADMET and MM-GBSA studies of novel sulfonamides as potential antioxidant agents, Journal of Molecular Structure, Q2, H-Index: 134, Impact Factor: 4.7, 1346, 143201, July 2025, <https://doi.org/10.1016/j.molstruc.2025.143201>,

Elsevier.

- Koteswara Rao Jammula, GM Madhu, Harish Kumar S, BR Veena, Sufiyan Ahmed Masroor, Title: Exploring the Properties of PVA/PANI Films With ZnO Nanoparticles: A Comprehensive Investigation of Structural, Electrical, and Thermal Characteristics, Name of the Journal: Engineering Reports, Volume: 12, 250373, DOI: <https://doi.org/10.1002/eng.270076>, Publisher: Wiley, Scopus.
- Neethu, R.P., Madhu G., Title: Temperature and defect-induced modulation of AC conductivity and dielectric behaviour in nickel oxide nanoparticles, Discover Materials, Volume No.: 5, DOI: <https://doi.org/10.1007/s43939-025-00299-3>, Publisher: Springer Nature, SCOPUS.
- C.R. Santhosh, Sampath Chinnam, Hrushikesh S. Chaudhari, Kondapalli Venkata Gowri Chandra Sekhar, Gbolahan O. Oduselu, Vishal Ahuja, Kumarappan Chidambaram, Nagaraju Kerru, G.M. Madhu, Title: Eco-friendly polyethylene glycol (PEG-400): PEG mediated synthesis, in-vitro, molecular dynamics, DFT, docking, ADMET and MM-GBSA studies of novel sulfonamides as potential antioxidant agents, Journal of Molecular Structure, Volume: 1346, 143201, DOI: <https://doi.org/10.1016/j.molstruc.2025.143201>, Elsevier, SCIE
- C. R. Santhosh, Sampath Chinnam, Guddekoppa S. Ananthnag, Gbolahan O. Oduselu, Kumarappan Chidambaram, Nagaraju Kerru, Nagaraju Kottam and G. M. Madhu, Title: Design, synthesis, crystal structure of novel hydrazone analogues as SARS-CoV-2 potent inhibitors: MD simulations, MM-GBSA, docking and ADMET studies, Royal Society Open Science, Volume: 12, 250373, DOI: <https://doi.org/10.1098/rsos.250373>, Royal Society, SCOPUS.
- Ashwini Wali, Ajay Khairnar, Arun Torris, Manohar V Badiger, Title: Halloysite nanoclay incorporated gelatine electrospun fibre for bio-separations: synthesis, characterization and biological studies, Journal: Polymer International, DOI: <https://doi.org/10.1002/pi.6777>, Wiley, SCI.
- Amit Tiwari, Chinta Sankar Rao, Koteswararao Jammula, Paramasivan Balasubramanian, Mahendra Chinthala, Kinetic analysis and machine learning insights in the production of biochar from Artocarpus heterophyllus (jackfruit) through pyrolysis, Biomass and Bioenergy, 201, 108125, <https://doi.org/10.1016/j.biombioe.2025.108125>, Elsevier, SCI.
- Sravanthi Veluturla, Nagaraj Kottam, Laila Nafisa, Mrinalini Ramesh, Hana Fathima Irshad, Anagha Kumar Margasahayam, Optimization of levulinic acid esterification via surface response methodology using single metal oxide nanoparticle as heterogeneous catalyst, Chemical Engineering Communications, 212, 894-905, <https://doi.org/10.1080/00986445.2024.2438159>, Taylor & Francis, SCI.
- Sarah Fatima Sravanthi Veluturla, Swastik Singh, A comprehensive review of carbon dioxide sequestration: Exploring diverse methods for effective post combustion CO₂ capture, transport, and storage, Environmental Engineering Research, 30, <https://doi.org/10.4491/eer.2023.452>, KSEE, SCOPUS
- Rajeswari M. Kulkarni, R. Sharath, and B. M. Nagabhushan, Removal of Copper (II) Ions from Aqueous Solution Using Manganese Oxide Nanopowder, Journal of Mines, Metals and Fuels 71, 10.18311/jmmf/2023/47972, Informatics Publishing Limited, SCOPUS. Impact Factor 1.6
- Aryasomayajula Venkata Satya Lakshmi 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, DOI: 10.1002/cjce.25634, Wiley, SCI.

Guest Lecture/s – delivered by department faculty

- Dr. Debayan Das, Assistant Professor, Department of Chemical Engineering, NIT Durgapur, Paper Microfluidics: The Future of Low-Cost Diagnostics through a Chemical Engineering Lens 30.05.2025.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT



- M/S. Kennametals India Pvt. Ltd., B'lore. - 11/04/2025
– 4th Sem UG students:



- M/S. Ace Designers Ltd., B'lore – 31/05/2025 – 4th & 6th semester students:
- FDP - "Cutting edge innovations in Next-Generation composites: Materials, Mechanics and applications", jointly organized by the Departments of Mechanical Engineering & Industrial Engineering & Management - 1st to 6th September 2025

Objective of the program:

- This FDP explores innovations in next-generation composite materials, including carbon fiber-reinforced polymers (CFRPs), glass fiber composites, nano composites, and bio-based materials, focusing on their mechanical properties and applications across various industries. These composites are revolutionizing industries such as aerospace, automotive, defense, energy, and marine engineering, where they are used for lightweight, high-strength components, improving performance and efficiency. The medical industry benefits from these materials in prosthetics and implants, while electronics use them for lightweight, durable components. The FDP also provides opportunities for participants to connect with experts and industry professionals, fostering collaboration and research in the field of composite materials.

Outcomes:

- Enhanced knowledge in the area of composites and its strengthening mechanism and exposure to research opportunities and build networking.

Publications in National / International Journals:

Faculty:

- S. Rajeesh, Girish V Kulkarni, **S Hemavathy**, K M Ravi, A N Veerendra Kumar, N Jaegadeeshwaran, S

V Prakash, and Preethi J Aradhya – "Optimization of machining parameters for Al – Li Alloy to enhance surface smoothness using the Taguchi method"- Informatics Journals, Print ISSN: 0022-2755 Journal of Mines, Metals and Fuels, 73(5):1293-1302:2025. Dol : 10.18311/jmmf/2025/47963

- **Bangarpet Shankar Sridhar**, Sunith Babu Loganathan, Jaya Christiyan – "Low velocity impact analysis of hybrid Kevlar/Glass laminate composites" – Materials Science Forum, May 2025 DOI:10.4028/p-arF94r, ISSN: 1662-9752, Vol. 1149, pp 99-108 – Q4.
- **Nagarathnam Rajesh Mathivanan**, Babu L. Sunith, Bangarpet Shankar Sridhar – "Cumulative damage analysis of GFRP laminates with different impact scenarios" - Materials Science Forum, May 2025 DOI:10.4028/p-CJ3Xtp, ISSN: 1662-9752, Vol. 1149, pp 81-88 – Q4.
- **Dr. Siddhartha Kar, Dr. Niranjana C A**, Prabhu Swamy Naraseekatte RangaSwamy, Tanmoy Majumder - "Application of machine learning and MOGA for predictive modelling and optimization of Inconel 718 machining in WEDM." IOP Science, Engineering Research Express, 7 (2025) 045406, <https://doi.org/10.1088/2631-8695/ae0b2f>. Received: 28 July 2025 Revised: 13 September 2025, Accepted for publication, 24 September 2025.
- **Dr. Siddhartha Kar, Dr. Niranjana C A**, Prabhu Swamy Naraseekatte Ranga Swamy, Tanmoy Majumder, Binoy Kumar Baroi, Alemu Workie Kebede - "Experimental investigation and parametric optimization of machinability and surface characteristics in wire EDM of Inconel 718." - Scientific reports, 15, Article number: 33947 (2025), Published: 30 September 2025 Nature portfolio <https://doi.org/10.1038/s41598-025-11188-3>
- **Dr. M. Rajesh**, Arpitha Bendigeri – 1MS21IM008, Kruthi Yeshwanth – 1MS21IM022, Sanskruthi S. Kandhari – 1MS21IM035, Trisha Prem Nair – 1MS21IM044 - "Design and Development of an IoT-enabled ergonomic material handling equipment for effective inventory management" - Conference paper published in Recent Advancements in Product Design and Manufacturing Systems, pp 565-574, 17 Nov 2024 and published in Springer Nature Link, DOI: 10.1007/978-981-97-6732-8_48

- **M. Rajesh** – Associate Professor, Dept. of IEM, RIT, B'lore, G Karthik Reddy - 1MS21IM401, Komal Kulkarni – 1MS20IM019, Shreya S – 1MS20IM037, Vijay Adithya – 1MS20IM048 Vindya.R.Kahyap – 1MS20IM049 - “Harvest Smart: An ergonomic fruit harvester for increased productivity and worker well-being.” - Conference: 2024 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS) November 2024 and published in IEEE Xplore - 979-8-3315-0546-2/24 DOI:10.1109/CSITSS64042.2024.10817001
- Dr. V N Shylaja, **Dr. M. Rajesh**, Sanjaykumar, Dr. Rajeswari. P - “Optimization of supply chain by theory of constraints in a manufacturing industry” - International Journal of Environmental Sciences, ISSN: 2229-7359 Vol.11 No. 20, 2025, <https://doi.org/10.64252/b2433734>
- **Dr. Siddhartha Kar** & Dr. Sudheer. D. Kulkarni - “Surface texturing through photochemical machining for enhanced tribological performance: A Review.” - Journal of Tribology. Received June 07, 2025; Accepted manuscript posted August 22, 2025, published online September 23, 2025. doi:10.1115/1.4069558
- **Shashi Kiran G** – Research Scholar, Dept. of IEM, MSRIT, B'lore, Dr. M.R. Shivakumar – Asst. Professor, Dept. of IEM, RIT, B'lore, Dr. Ramachandra C G – Professor, Dept. of Mechanical Engineering, Presidency University, B'lore - “Cross-domain applications of lean six sigma: A comprehensive review of methodologies, tools and outcomes across sectors.” – International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol.14, Issue 07, July – 2025.

Conference

Faculty:

- **Dr. Sudheer. D. Kulkarni** - virtually presented a paper titled “Immersive realities: A cross-sectoral review of virtual and augmented reality applications” at the 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT)IIT – Indore, Madhya Pradesh, India in association with the IEEE Electronics Packaging Society and the All India Council for Technical Education (AICTE). - July 6th to 11th July 2025

- K. Balasubramanyam & **Dr. M. Rajesh** - Attended and presented a technical paper titled “Sustainable manufacturing initiatives for productivity improvement.” at the 67th National Convention 9th International Conference & National Productivity Contest – AI – Driven Industrial Engineering for Sustainability organized by IIIE Trivandrum Chapter & Dept. of Mechanical Engineering & CET School of Management College of Engineering Trivandrum - 8th – 9th August 2025

Students:

- Mr. Akhil Kumar Singh – 1MS22IM003, Amulya. M.G – 1MS22IM005, Aayushmaan Purohit – 1MS22IM038, has participated and presented a technical paper titled “Digitalization of warehouse operations using IoT to reduce the delay time in commercial packages at the delivery in 2025 International Conference on Advancement in Communication & Computing in Technology (INOACC), jointly organized by Departments of CSE, ISE, ECE, CSE (AI & ML), CSE (DS) at Sai Vidya Institute of Technology, Bengaluru, India held during 4th to 6th April 2025.
- Dr. Sudheer.D. Kulkarni - virtually presented a paper titled “Immersive realities: A cross-sectoral review of virtual and augmented reality applications” at the 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT)IIT – Indore, Madhya Pradesh, India in association with the IEEE Electronics Packaging Society and the All India Council for Technical Education (AICTE). - July 6th to 11th July 2025.
- K. Balasubramanyam & Dr. M. Rajesh - Attended and presented a technical paper titled “Sustainable manufacturing initiatives for productivity improvement.” at the 67th National Convention 9th International Conference & National Productivity Contest – AI – Driven Industrial Engineering for Sustainability organized by IIIE Trivandrum Chapter & Dept. of Mechanical Engineering & CET School of Management College of Engineering Trivandrum - 8th – 9th August 2025.

Guest Lecture/s – Invited:

- Ms. T. Sugasini, Senior Assistant Vice President, Risk Management, J P Morgan Morgan Chase, Bangalore. - “Risk Management: Advanced Strategic Planning for Start-Ups” - 16/04/2025.

- Mr. Sridhar T R, Director, Product Management, Mavenir – “Protecting intellectual property rights (IPR) and IP management for start-ups” – 30th May 2025.
- Mr. Vijay Adithya G, Operations Administrator, Magnify Air LLP, B'lore – “Emotional dynamics across the entrepreneurial lifecycle” – 2nd June 2025.

Funded Project:

- **Dr. M. Rajesh** & Co-Investigator Dr. Sridhar. B.S - “Biomechanical analysis to enhance occupational health and safety.” 10/09/2025 - Rs.5,10,000/-, RIT seed fund, Sept 2025 to Aug 2027

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

Faculty:

- **Dr. M. Rajesh** – rendered services of reviewing the article title “Optimization of key forging parameters for reduced stress in titanium alloy knee implants: A finite element analysis through Taguchi’s method” for Journal of the Institution of Engineers (India): Series C.
- **Dr. M. Rajesh** was awarded the Fellowship by the Indian Institute of Industrial Engineering, Mumbai on 8th August 2025.

Students:

- Challa Srinivas Parthiv – 1MS21IM012, Riya. B – 1MS21IM029, Ann Xavier Rego – 1MS21IM005, Chiranth. K – K-1MS22IM401 participated and presented a technical project/product titled “Application of Taguchi-Grey relational analysis for improving radish yield” in the 9th National Techno-Exhibition 2025, at the 134th birth anniversary celebration of Bharat Ratna Dr. B.R. Ambedkar on “World Knowledge Day” organized by Dr. Ambedkar Institute of Technology, Bangalore, 13th April 2025.
- Akhil Kumar Singh – 1MS22IM003, Harsh Kumar – 1MS22IM018, Aayushmaan Purohit – 1MS22IM038, participated and presented a technical project/product titled “Empowering rural populations with offline financial transactions” in the 9th National Techno-Exhibition 2025 – at the 134th birth anniversary celebration of Bharat Ratna Dr. B.R. Ambedkar on “World Knowledge Day” organized by

Dr. Ambedkar Institute of Technology, Bangalore – 13th April 2025.

- Sanskruti Sunil Kandhari – 1MS21IM035 bagged 'Best Outgoing Student Award 2024-25' at the farewell function held on 6th June 2025, RIT, Bangalore.
- Ann Xavier Rego – 1MS21IM005, Challa Srinivas Parthiv – 1MS21IM012, Riya. B – 1MS21IM029, Chiranth K – 1MS22IM401, awarded by MSRIT Alumni Association 1st prize for best project title 'Design and development of modular IoT enabled fire & security system for diverse environments.' – under the guidance of Dr. M. Shilpa, Associate Professor & Dr. G.S. Prakash, Professor & Head, Dept. of IEM, RIT, Bangalore.
- Harshitha. B - 1MS21IM018, Hansika S - 1MS21IM031, Dhanush R - 1MS22IM402, Likhitha B.S - 1MS22IM404, Sharath Kumar G - 1MS22IM405 bagged first prize for the best project titled “Development of hybrid dehydrator for small scale preservation of perishable produce with real time thermos hygrometric monitoring.” – under the guidance of Dr. M. R. Shivakumar, Associate Professor, Dept. of IEM, RIT, Bangalore., in the Open Day Project Exhibition 'PRADARSHANA 2024-25' held on 4th & 5th June 2025.
- Arvind V S - 1MS21IM009, Divyansh Mishra - 1MS21IM014, Glen Anto - 1MS21IM016, Jonathan Francis - 1MS21IM020 project titled “Smart car ranking: A user-centric car compassion system.” – under the guidance of Dr. M. Rajesh, Associate Professor, & Dr. M.R. Shivakumar, Assistant Professor, Dept. of IEM, RIT, B'lore bagged second prize in the Open Day Project Exhibition 'PRADARSHANA 2024-2025' held on 4th & 5th June 2025.
- Harsh Kumar - 1MS22IM018, Dhriti Ganesh - 1MS22IM015, Aayushmaan Purohit - 1MS22IM038 - participated in the Zerodha Varsity Quiz, Bengaluru Edition 2025, held on 10th September 2025 - Won 2nd position cash prize of ₹60,000
- Akhil Kumar Singh - 1MS22IM003, Vibha Sastry H K - 1MS23IM059, Yash Yalamalli - 1MS23IM062 – participated in the Zerodha Varsity Quiz, Bengaluru Edition 2025, held on 10th September 2025 - Won 6th position.

Faculty who obtained Ph.D degree:

Patent :

- "A system for quality assessment of food grains and a method thereof." - Munninarasegowda Rajesh, Komal Kiran Kulkarni, Shreya Shashidhar, Vijay Adithya Gopinath, Vindya Rajesh Kayshap, GuvvalapallyKarthik Reddy and Sridhar Bangarpet Shankar. - Filed Application No.: 202441038537 - 16/05/2025
- "Innovative cycle frame-tubeless" – Dr. Sridhar. B.S - RIT/IPR/2025/PT149 - 07-07- 2025.
- "Aluminium honeycomb and rice husk based sandwich composites for leaf spring" – Dr. Sridhar. B.S - RIT/IPR/2025/PT150 - 07-07- 2025.



- **MICROSOFT INDUSTRIAL VISIT** –Students from the Department of Computer Science and Engineering, RIT, visited Microsoft's GitHub Copilot Global Bootcamp on June 21, 2025. The event offered hands-on exposure to AI agents, GitHub Copilot, and Azure AI technologies. Through expert sessions and live demos, students gained insights into cloud-native AI development, intelligent code generation, and industry-relevant career opportunities.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



- **The Faculty Development Programme** on Adaptive Learning for Engineering Courses through AI and Analytics, July 14th to 18th 2025 aims to empower educators with contemporary tools, technologies, and teaching methodologies that leverage Artificial Intelligence (AI), Machine Learning (ML), and Data Analytics to create responsive, effective, and scalable learning experiences. This FDP is designed to bridge the gap between traditional instructional strategies and modern, adaptive pedagogies required for today's engineering education.

- The 5-Day Tech Talk Series, Date of Event: 3rd, 5th, 6th, 19th May and 2nd June 2025, organized by IEEE RIT Student Branch, featured expert-led sessions from May to June 2025. Covering topics like NLP, low-code development, AI in automotive, and career transitions, the series empowered students with practical insights, real-world applications, and interactive learning across cutting-edge technologies and professional growth strategies.



- **3Days Tech Talk Series:** On 1st July and 9th July, the session was designed for postgraduate engineering students from Ramaiah Institute of Technology to introduce them to the interdisciplinary power of Full Stack Development, Artificial Intelligence, and Product Thinking. It aimed to equip students with understanding core AI concepts, and introducing user-centric products. Through interactive demos, real-world examples, and hands-on insights, the talk encouraged innovation, critical thinking, and a holistic approach to solving complex problems in modern tech-driven environments.

- **5Days Tech Talk Series:** On 2nd, 3rd, 4th and 5th July 2025, the session, organized for undergraduate and postgraduate engineering students at Ramaiah Institute of Technology, aimed to showcase the interdisciplinary synergy of Full Stack Development, Artificial Intelligence, Product Thinking and communication security. It was designed to help students grasp core AI concepts and the principles of creating user-centric products. Through interactive demonstrations, real-world case studies, and practical insights, the talk inspired innovation, critical thinking, and a holistic mindset for addressing complex challenges in today's technology-driven world.

Publications in (National / International) Journals:

- **Soumya C S, Jayanna H S** - 'HiGMA-DADCN: Hirudinaria granulosa multitropic algorithm optimised double attention enabled deep convolutional neural network for psoriasis classification', Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Vol.13 Issue 1, (2025), pp 1-23.
- **Mamatha A, Kirubakaran, M. K., P. Santosh Reddy, and J. Vellingiri.** Enhanced VANET Communication: Fractional Order Water Flow Optimization and Secure Communication via Spatial Bayesian Neural Network. International Journal of Communication Systems, Volume 38, Issue no. 12 (2025), doi:<https://doi.org/10.1002/dac.70147>.
- **Pallavi, N., Vijayakarhik, P. & Byliah, Sushma.** Optimizing Dragon Fruit Quality and Maturity Classification through Deep Learning Techniques. SN COMPUT. SCI. Volume 6, No 652 (2025), <https://doi.org/10.1007/s42979-025-04195-8>.
- **Shilpa Chaudhari., Rane, A., & Kumar, A. R.** (2025). Personalizing nutrition and recipe recommendation using attention mechanism with an ensemble model. Clinical eHealth, 8, (2025), pp. 66-77.
- **Mallegowda M et al,** Intrusion Detection System using Hybrid Reverse-Binary Meerkat Optimization Algorithm and Support Vector Machine with Improved Random Forest. International Journal of Intelligent Engineering & Systems 18, no. 4 (2025). 10.22266/ijies2025.0531.25
- **Shidaganti, G., Kumar, S. & D, V.** (2025). CUDA-Powered EDSR x4: Super-Resolution for Real-

Time Video Enhancement. *Journal of Computer Science*, 21(6), 1283-1292. <https://doi.org/10.3844/jcssp.2025.1283.1292>.

- **Parkavi**, B. J. Sowmya, Sini Anna Alex, et al. Air quality and dust level monitoring systems in hospitals using IoT, *Discover Internet of Things*11, Volume 5, Article number 23, (2025).
- **Chaudhari, S.**, Aparna, R., Anchalia, A., Somayaji, A. M., & Kumar, A. S. (2025). Video Deduplication Using Clustering and Hashing-Based Layered Coarse Resolution Approach for Cloud Storage. *Journal of Artificial Intelligence and Technology*. <https://doi.org/10.37965/jait.2025.0799>.
- Tolanur, J., & **Chaudhari, S.** (2025). Federated Deep Learning-Based Security Model Against DDoS Attack for Cloud Environment. *Journal of Artificial Intelligence and Technology*, 5, 430-440.
- Subbulakshmi, V., **Chaudhari, S.**, & Pathan, S. (2025). Federated Learning-Based Travel Time Prediction for Adaptive Congestion Control Using 5G-Assisted Roundabout Traffic Networks. *IEEE Access*, VOLUME 13, 2025.
- Ramalingiah, A., & **Chaudhari, S.** (2025). Multi-Level Video Analytics for Efficient Deduplication in Cloud Storage. *TPM-Testing, Psychometrics, Methodology in Applied Psychology*, 32(S4 (2025): July 2025, 814-824.
- **Pallavi, N.**, Vijayakarhik, P. & Bylaiah, Sushma. Optimizing Dragon Fruit Quality and Maturity Classification through Deep Learning Techniques. *SN COMPUT. SCI.* 6, 652 (2025). <https://doi.org/10.1007/s42979-025-04195-8>.
- Manjula, L., Raju, G.T., **Pallavi, N.** Proactive Memory Efficient DDOS Attack Detection at IoT Gateways through Microneural Networks with Jellyfish Optimizer. *SN COMPUT. SCI.* 6, 535 (2025). <https://doi.org/10.1007/s42979-025-04064-4>.
- **Parkavi, A.**, Sowmya, B.J., Alex, S.A. Air quality and dust level monitoring systems in hospitals using IoT. *Discov Internet Things* 5, 23 (2025). <https://doi.org/10.1007/s43926-025-00120-w>.
- Subramanya, **Parkavi. A** Grape Leaf Disease Detection Using VitiNet-X: A Novel Deep Learning Model with Dual Attention and Multi-Scale Feature Fusion, *International Journal of Intelligent Engineering and Systems*, Vol.18, No.10, 2025.

Paper presentation in National / International Conferences:

- Nadaf, A. S., & **Sulthana, U.** (2025, May). Analysis of Lesson Plans and Assessment Results to Enhance Teaching and Learning Strategies. In *2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN)* (pp. 931-934). IEEE.
- Vijayalakshmi, N. B., **Sangeetha, V.**, & Natikar, K. (2025, April). A Machine Learning-Based Framework for Efficient Driver Behavior Classification in VANETs. In *2025 International Conference on Knowledge Engineering and Communication Systems (ICKECS)* (pp. 1-7). IEEE.
- Priyanka. H. B and **Sangeetha V**, "Neural Network approach for Resource Allocation and Traffic Management in 6G Networks," *2025 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)*, Chennai, India, June 2025, pp. 1-6.
- Nagashri, B. N., & **Sangeetha, V.** (2025, June). Deep Learning-Based Waste Segregation: A Performance Evaluation of ResNet, CNN and VGG16. In *2025 6th International Conference on Inventive Research in Computing Applications (ICIRCA)* (pp. 1793-1798). IEEE.
- **Mallegowda, M.**, Viswanath, N. G., Polepalli, N., & Ganga, N. (2025, April). Improving Vehicle Perception Through Image Stitching: A Serial and Parallel Evaluation. In *2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0* (pp. 1-6). IEEE.
- **Mallegowda, M.**, KR, P. K., Peter, M. J., Sadath, S., Farooq, S. U., & Kanavalli, A. (2025, April). Decrypting Faster: Synergizing Serial and Parallel Processing for Dictionary Attacks. In *2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0* (pp. 1-4). IEEE.
- **Mallegowda, M.**, Kumar, A. R., Kumari, S. M., Rao, T., & Shetty, T. S. (2025, April). Optimizing Fine-Tuning Strategies for Large Language Models: A Comparative Study of Serial and Parallel

- Computation Paradigms. In 2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0 (pp. 1-4). IEEE.
- Reddy, P., & **Parkavi, A.** (2025, May). Personalized Adaptive Learning Pathway System Using Reinforcement Learning, Knowledge Graphs, and Rule-Based Explainability. In 2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN) (pp. 857-865). IEEE.
 - **Kumar, D. P.,** Sowmya, B. J., Vincent, A., & Pandiyan, A. (2024, June). Attention based 1-D CNN system for detection of Freezing of gait (FOG) in Parkinsons Patients. In 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT) (pp. 1-7). IEEE.
 - **Priya K,** "Multimodal Transformer-Based Deepfake & Phishing Attack Detection Using Vision- Language Models & Blockchain", Sixteenth International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), IIT Indore, July 6th to 11th, 2025.
 - **Sangeetha V,** Rohidekar, N. K., & Sachan, M. Sequence-Based Image Prediction using GAN and LSTM. In 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON) (pp. 1-3). IEEE August 2025.
 - **Sangeetha, V.,** Divya, S., Bhoomika, R., & Rakshitha, P. Deep Learning-Based Ship Detection and Classification in SAR Images Using CNN and Flask Web Integration. In 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON) (pp. 1-6). IEEE.
 - **Sangeetha V,** Swaroop, Automating AI Bills of Materials (AIBOMs): A Framework for Secure AI System Transparency and Compliance IEEE International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE 2025), BGS College of Engineering & Technology, 26th & 27th Sep, 2025 Bangalore.
 - **Sushma B,** Krish Kumar, Pathan Irbaz Hussain, Ryan Aahil, Siddhanth Pradhan, Leveraging Advanced Computer Technologies for Converting Vegetable Waste into Nutritious Animal Feed, IEEE 4th International Conference for Advancement in Technology (ICONAT), 19th to 21st September, 2025, Goa.
 - **Mamatha A, Sangeetha V,** & Nidhi, G. D, A Hybrid Convolutional and Graph Attention Network Architecture for the Classification of Fetal Brain Abnormalities. In 2025 6th International Conference on Inventive Research in Computing Applications (ICIRCA) (pp. 1873-1879). IEEE.
 - **Pallavi. N,** P. Vijayakarthish and Harshitha. S., "Disease Detection in Pitahaya Plant Using Vi T," 2025 Second International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2025, pp. 260-265, doi: 10.1109/ICC-ROBINS64345.2025.11086310M.
 - M. N. Pushpalatha, **A. Parkavi,** D. M. Mushtaq Ahmed, A. Koley, A. M. Naik and A. Kumar, "Kannada Speech to Sign Language Converter: A Novel Platform Integrates Indian Sign Language and Speech-to-Text Technology," 2025 International Conference on Microwave, Optical, and Communication Engineering (ICMOCE), Bhubaneswar, India, 2025, pp. 1-5, doi: 10.1109/ICMOCE64100.2025.11077098.
 - Ayan. S. Nadaf, U. **Sulthana and Parkavi. A,** "Analysis of Lesson Plans and Assessment Results to Enhance Teaching and Learning Strategies," 2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2025, pp. 931-934, doi: 10.1109/ICPCSN65854.2025.11034896.
 - **Pallavi TP, Parkavi. A,** P. N and G. R, "Advanced Sentiment Analysis and Topic Extraction Annotation Framework for YouTube Comments," 2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2025, pp. 1395-1400, doi: 10.1109/ICPCSN65854.2025.11036026.
 - Prashanth Reddy C and **Parkavi. A,** "Personalized Adaptive Learning Pathway System Using Reinforcement Learning, Knowledge Graphs, and Rule-Based Explainability," 2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2025, pp. 857-865, doi: 10.1109/ICPCSN65854.2025.11034934.
 - **Shilpa Chuadhari,** Aisiri K S, **Manjula Chougala,** Sahana V, Bio Inspired based Random Forest

Approach for Depth based Routing in Underwater Sensor Networks, IIMC- 2025 DOI: 10.1109/ICCMC65190.2025.11140673.

- Subramanya. S G and **Parkavi. A**, "Performance Evaluation of EfficientNet Models in Grape Leaf Disease Classification," 2025 International Conference on Intelligent Systems and Computational Networks (ICISCN), Bidar, India, 2025, pp. 1-6, doi: 10.1109/ICISCN64258.2025.10934407.

Guest Lecture/s – Invited:

- **Shashank N**, Security Architect @ Google - "Alumini Talk: Cloud Architecture and Security", 04-04-2025.
- **Dr. Jay R. Bhatnagar**, Professor, Department of CSE, Graphic Era Deemed to be University, Dehradun - "A random walk through some recent work - U G Research", 23-04-25.
- **Dr. M. T. Arvind**, Chief Innovation Officer and Professor of Practice (Adjunct) in the Department of Electrical Engineering at IIT Jammu, "The Entrepreneurship Journey", 20-05-2025.
- **Lt Vivek S, Naval Headquarters**, Alumni Talk - 'Opportunities for Engineers in the Indian Navy', 18th September 2025.



- The session was highly interactive, with students posing insightful questions regarding eligibility, selection process, training regimes, and life aboard naval ships. Lt. Vivek patiently addressed each query, drawing from his personal experiences to guide and inspire the students. The event concluded with a vote of thanks, appreciating Lt. Vivek S for his

time and invaluable insights. The talk proved to be highly motivating, especially for students aspiring to serve the nation through technical excellence and leadership

Guest Lecture delivered by the department faculty:

- **Mamatha A**, delivered a session during the three-day workshop titled "Interacting with AI Tools" held at M S Engineering College, Bangalore, from 8th to 10th May 2025.
- **Dr. Parkavi A**, delivered talk in IEEE CSIS India Symposium 2025, Panel Discussion on "Ethical AI: From Principles to Practice", IEEE Computer Society Bangalore Chapter and Department of CSE MIT Bangalore, on April 26th and 27th 2025.
- **Dr. Parkavi A**, delivered talk in IEEE Faculty Conclave on Emerging Technologies in Energy, Mobility, Computing, Communication, Control, and Robotics, at KLE Technological University, Hubballi, on April 6, 2025.

Funded Project

- **Dr. Sushma B, Dr. Seema S, Dr. China Appala Naidu**, Dr.Vinay T R, Dr.Suresh K P., "Vegetable Waste Management: Analyzing and providing sustainable solutions", RIT Seed Fund, Grant: Rs. 2,67,000.
- **Dr. Parkavi. A**, Pushpalatha, Sini Anna Alex, "Individual safety system using IOT and DL", RIT Seed Fund, Grant: Rs.3,00,000

Patents:

- **Dr. Sangeetha V, Mamatha A**, "A System and Method for AI-Based Real-Time Object Detection and Wireless Assistance for Visually Impaired", Patent No: 202541054183, Publication Date: 13/06/2025.
- **Parkavi A, Brunda G**, Dr.Pushpalatha M N, Dr. Sini Anna Alex ,Dr.Mallegowda M,Kaushiki Shah, Purva Rajodiya ,Samruddha S, Dharitri Nandi, A Smart Reader And Auto Page Turner System For Enhanced Accessibility To Visually Impaired Individual, Patent No: 202541015671, Publication Date: 7/3/2025.
- **S. Rajarajeswari, Shilpa Shashikant Chaudhari**, Mohammad Ateeb Tantray, Mrinal S, Piyush Khodbole, Dhanraj Pandya, AI-Driven VR Platform For Smart City Planning using Geospatial Data, 202541066661, published on 25-07-2025.

- **Rajarajeswari S**, H S Harsha, Tejas Hegde, Siddarth Bhetariya, Sanjana C, Midhun Sreekumar Menon, Viswanath Veera, And Chinmay Shinde Hegde, Enhancing Occupancy Flow Prediction for Autonomous Driving: A Scalable Framework with Advanced Spatial-Temporal Modeling, 02541059708, published on 04-07-2025

Faculty who obtained Ph.D degree :



• The Ph.D. degree was awarded to **Chandrika P.** by Visvesvaraya Technological University, Belagavi, in 2025 for the research titled 'Development and Analysis of Real-time Computational Linguistic Algorithms for Authorship Prediction on Indian Regional Languages.' The research was carried out under the supervision of Dr. Jagadish S. Kallimani, Professor and Head, Department of Artificial Intelligence & Machine Learning, Ramaiah Institute of Technology, Bengaluru.



• The Ph.D. degree was awarded to **Akshata S. Bhayyar** by Visvesvaraya Technological University, Belagavi, in 2025 for the research titled "A Cognitive Psychology Approach to Analyze Information Propagation using Machine Learning Techniques."

The research was carried out under the supervision of **Dr. Kiran P., Professor and Head, Department of Computer Science and Engineering (Cyber Security), RNSIT**

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



- One Week FDP ON "Edge-Driven IoT and Embedded Intelligence: From Architecture to Real-World Applications" during 1st to 6th September 2025.

Publications in (National / International) Journals:

- Manvi, S., Parimala, P., & Shobha, K. R. (2025). Performance Analysis of a NavIC Aided Multi-GNSS Receiver in Low Latitude Region. International Journal of Geoinformatics, 21(9), 69-80.
- Chavan, P., Pawar, G., Ramya, H. R., Prabhu, S. G., Rohith, S., Ramachandra, H. V., ... & Ramaprasad, H. C. (2025). Deep Encoder–Decoder Model (Deep-EDM) for Efficient CSI Feedback in MIMO Systems. SN Computer Science, 6(7), 756.

Paper presentation in National / International Conferences:

- **Madhavi, V., Prathibha, T. P.,** Pooja, H. L., Reddy, K. H., & Leena, K. (2025, May). A Comparative Analysis of Static and Dynamic Thermal Imaging in Breast Cancer Screening. In 2025 International Conference on Electronics, Computing, Communication and Control Technology (ICECCC) (pp. 1-6). IEEE.
- Kumar, B. V., Shekinah, P., & **Kusuma, S. M.** (2025, July). Real-Time Data Drift Detection for Anomaly Detection Services in Multivariate Time Series Using Deep Learning within MLOps Pipelines. In 2025 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT) (pp. 1-6). IEEE.
- Abhinav, V. S., Sanjeev, A., **Madhavi, V.,** Abhishek, R., & Shaikh, M. S. (2025, August). An Open VLA Powered Robot with ROS2 for Autonomous Elder Care Assistance. In 2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON) (pp. 1-9). IEEE.

Funded Project:

SEED FUNDING

ONGOING:

- A research study titled "Efficacy Analysis of Carnatic Music and Mudra Therapy in the Treatment of Diabetes and Hypertension using EPI" has been undertaken by **Dr. Ramya**, with a funding support of ₹2,55,000.

- A research project titled “Design and Development of Compact Transparent Antenna for 5G Applications” is being carried out by **Dr. P. Parimala**, with a funding support of ₹1,75,560.

Patents:

- A patent titled “Multiband Antenna Tuning Device for 5G Networks” (Patent No. 450853-001) was granted on 23rd May 2025 to **Dr. Parimala P, Mrs. Nisha S. L., and Dr. Ramya H. R.**
- A patent titled “Smart Reader for the Visually Impaired using Raspberry Pi” (Patent No. 202541064405) was published on 5th July 2025 by **Dr. Kavita Avinash Patil.**

- A one-week FDP on “**Mathematics with AI**” was jointly organized by the Department of CSE (AI & ML), Department of CSE (Cyber Security), and Department of Mathematics, Ramaiah Institute of Technology, and was held from 21st to 25th July 2025.



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

- A one-week workshop on “**An Insight into Cyber Security Fundamentals**” was jointly organized by the Department of CSE (AI & ML) and the Department of CSE (Cyber Security), Ramaiah Institute of Technology, in collaboration with Ramaiah Polytechnic, and was held on 5th, 6th, 7th, 11th, 12th, and 13th August 2025.



- Department of CSE (AI & ML) and CSE (Cyber Security) organized a 5-day FDP on Quantum Computing—A Practical Approach from July 7th to July 11th, 2025.

- **Mr. Aryaman Prakash** (1MS22CY010), **Mr. Dhanraj Rateria** (1MS22CY020), and **Mr. Nishanth M** (1MS22CY047) from the SecueRITclub delivered a hands-on session on “Vulnerability and Penetration Testing” on 13th August 2025 at CRD 508, Multipurpose Block.



- A guest lecture was delivered by **Mr. Kumar. D**, who is currently working as Cloud Analyst in Google Operations Centre (GOC), Hyderabad on “**Virtual Technology**” for Sixth Semester, Dept of CSE (AI & ML, Cyber Security) students from 14th of May 2025 to 16th of May 2025 at LHC seminar hall-1.



- Partial Delivery sessions for the course CI62 - Introduction to Deep Learning were conducted on the topic **Deep Learning – Transformers and RAG Architecture Implementation** by Mr. Tarun Jain, Senior Data Scientist at AI Planet, Bengaluru. The sessions were held for the sixth semester CSE (AI & ML) students on May 2nd, 3rd, 8th, 16th, 23rd, and 30th 2025, from 1:45 PM to 3:45 PM in CRD 405, Multipurpose Block.



- Partial delivery sessions for the course **CY62 – Cyber Security Attacks and Defense Strategies** were conducted by **Dr. Jayaprakash Govindaraj**, Senior Product Security Leader, Boeing India. These sessions were organized for 6th semester CSE (Cyber Security) students and held on May 2nd, 9th, 16th, 23rd, and 30th 2025, from 9:00 AM to 12:00 Noon at CRD 508, Multipurpose Block.



- Partial delivery sessions for the course Design and Analysis of Algorithms CI43/CY43 were conducted by Mr. Srikanth V. Goutham, Software Engineer, VMware India Pvt. Ltd. These sessions were organized for 4th semester CSE (Cyber Security) and CSE (AI&ML) students and held on May 16th, 17th, and 18th 2025, from 3:00 PM to 4:30 PM at LHC Seminar Hall-1, LHC Block.

Publications in (National/International) Journals/ International Conferences/Book Chapters:

- **Siddesh, G.M**, Multimedia video analytics using deep hybrid fusion algorithm, Multimedia Tools and Applications,84,14167–14185, Springer, 2025. <https://doi.org/10.1007/s11042-024-20184-0>
- **Ms. Reshma Rachel Cherish**, “An attention-based loss function and synthetic minority oversampling technique for alleviating class imbalance in predicting diabetes” in Healthcare Analytics journal, Volume 7, June 2025, 100399, <https://doi.org/10.1016/j.health.2025.100399>
- **Ms. Reshma Rachel Cherish**, published a book chapter, “A Study on Applications of Natural Language Processing in Medical Data,” in the Springer series in Lecture Notes in Networks and Systems (LNNS, volume 1245), vol.1245, Deep Learning and Large Language Models ISBN 978-3-031-81082-4, https://doi.org/10.1007/978-3-031-81083-1_6
- **Ms. Kavya Natikar** published a book chapter “Virtual Reality for Healthcare and Branding: Applications, Impact, and Ethics”, ISBN: 9798337309484, 2025. Brand Creation and Management in the Phygital Era,

published by IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-0948-4.ch020>

- **Ms. Kavya Natikar**, "A Machine Learning-Based Framework for Efficient Driver Behavior Classification in VANETs," 2025 International Conference on Knowledge Engineering and Communication Systems (ICKECS), Chickballapur, India, 2025, pp. 1-7, <https://doi.org/10.1109/ICKECS65700.2025.11034924>
- **Dr. Josy Elsa Varghese**, "A Survey DDoS Attack in IoT Cloud Platform," 2024 Eighth International Conference on Parallel, Distributed and Grid Computing (PDGC), Wahnaghat, Solan, India, 2024, pp. 388-393, doi: 10.1109/PDGC64653.2024.10984361.
- **Mrs. Shankamma** presented a paper titled "Analysis of Network Anomaly Detection using Machine Learning and Deep Learning Algorithms" at the 16th IEEE International Conference on Computing, Communication and Networking Technologies, held at IIT Indore.
- **Dr. Josy Elsa Varghese** presented a paper titled "Hybrid-RAG: A Self-Adaptive and Corrective Retrieval-Augmented Generation Framework for Real-Time Intelligent Customer Support" and awarded Best paper in International Conference on Emerging Technologies in Science & Engineering (ICETSE-2025) held at AIT Tumkur on 20th June 2025.
- **Dr. Sini Anna Alex**, Department of CSE (AI&ML), published Book Chapter OFFENSIVE AND DEFENSIVE ARTIFICIAL INTELLIGENCE IN CYBERSPACE, Attacks on Artificial Intelligence: The New Facets of Cyber Ecospace, CRC Press.
- Siddesh, G.M, Detection of Anomalies in Docker-Based Containers through Monitoring. Automatic Control Computer Sciences, vol. 59, 244–254, Springer, 2025. <https://doi.org/10.3103/S0146411625700208>.
- Mohana Kumar S, "Evaluation and Performance of a Phishing Electronic Mail Detection Model," 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), Erode, India, 2025, pp. 1242-1246, doi: 10.1109/ICCMC65190.2025.11140705. <https://ieeexplore.ieee.org/abstract/document/11140705>

- Shankamma, "Evaluation and Performance of a Phishing Electronic Mail Detection Model," 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), Erode, India, 2025, pp. 1242-1246, doi: 10.1109/ICCMC65190.2025.11140705. <https://ieeexplore.ieee.org/abstract/document/11140705>
- **Shankamma**, presented a paper titled "Revolutionizing Recycling: Blockchain and Green Credit Empowerment for a sustainable future" at the Second IEEE International Conference on New Frontiers in Communication, Automation, Management and Society organized by Presidency University, held on 11th and 12th July 2025

Workshop/FDP/Symposium/Technical Talk attended by faculties

- Dr. Nayana G. Bhat, Associate Professor, attended the FDP on "Mathematics for Artificial Intelligence" from 21-7-2025 to 25-07-2025.
- Dr. Nayana G Bhat, Associate Professor, attended FDP on "Federated Learning for Secure and Privacy-Preserving Artificial Intelligence" from 28-7-2025 to 06-08-2025.
- Dr. Nayana G Bhat, Associate Professor, attended the FDP on "Innovation Integration of Computer Vision and Artificial Intelligence in Healthcare" from 18-08-2025 to 23-08-2025.
- Dr. A N Ramya Shree, Associate Professor, attended the FDP on "Innovation Integration of Computer Vision and Artificial Intelligence in Healthcare" from 18-08-2025 to 23-08-2025.
- Dr. A. N. Ramya Shree, Associate Professor, attended FDP on "Federated Learning for Secure and Privacy-Preserving Artificial Intelligence" from 28-7-2025 to 06-08-2025.
- Shankamma, Assistant Professor, attended FDP on "Mathematics for Artificial Intelligence" from 21-07-2025 to 25-07-2025.
- Shankamma, Assistant Professor, attended FDP on "Federated Learning for Secure and Privacy-Preserving Artificial Intelligence" from 28-07-2025 to 01-08-2025.

- Shankamma, Assistant Professor, attended the 5-Day Online Industry-Oriented Faculty Development Program (FDP) on “Empowering Educators through Emerging Technologies in the IT Industry,” organized in collaboration with Tata Consultancy Services (TCS), held from 28th July to 1st August 2025.
- Dr. Rakesh Kalshetty, Assistant Professor, attended FDP on “Emerging Technologies—Shaping the Future” from 12-5-2025 to 16-05-2025.
- Dr. Rakesh Kalshetty, Assistant Professor, attended FDP on “Quantum Computing: A Practical Approach” from 07-7-2025 to 11-07-2025.
- Dr. Rakesh Kalshetty, Assistant Professor, attended FDP on “Federated Learning for Secure and Privacy-Preserving Artificial Intelligence” from 28-7-2025 to 06-08-2025.
- Ms. Kavya Natikar, Assistant Professor Designate, completed a two-week FDP on “AI in Medical Imaging and Diagnostics: Current Trends and Challenges” conducted by IIT Kanpur from 7/07/2025 to 18/07/25.
- Ms. Kavya Natikar, Assistant Professor Designate, attended FDP on “Empowering Educators through Emerging Technologies in the IT Industry,” organized in collaboration with Tata Consultancy Services (TCS), held from 28/07/2025 to 1/08/2025.
- Dr. Naveen N C, Professor, attended FDP on “Empowering Educators through Emerging Technologies in the IT Industry,” organized in collaboration with Tata Consultancy Services (TCS), held from 28/07/2025 to 1/08/2025.

Guest Lecture delivered by the Department Faculty:

- Dr. A N Ramya Shree, Associate Professor, delivered an expert talk at ATAL FDP on "Cyber Security for the Digital Age: Protecting Data and Privacy" at Akshaya Institute of Technology, 21-07-2025 to 26-07-2025, Tumakuru, 572106.
- Dr. Mohana Kumar S, Associate Professor, delivered a guest talk in AI for Sustainability organized by the Surana College Peenya Bangalore held on 10th Sept 2025.
- Dr. Nayana G. Bhat, Associate Professor, delivered an expert talk in the One-Week Workshop on “An Insight

into Cyber Security Fundamentals,” organized by the Departments of CSE (AI & ML) and CSE (Cyber Security), RIT, in collaboration with Ramaiah Polytechnic, held from 5th–13th July and 6th–13th August 2025.

- Mr. Chethan Sharma, Asst. Professor, delivered an expert talk in the One-Week Workshop on “An Insight into Cyber Security Fundamentals,” organized by the Departments of CSE (AI & ML) and CSE (Cyber Security), RIT, in collaboration with Ramaiah Polytechnic, held from 5th–13th July and 6th–13th August 2025.
- Dr. Rakesh Kalshetty, Asst. Professor, and Mrs. Shobha K ,Asst. Professor delivered an expert talk in the One-Week Workshop on “An Insight into Cyber Security Fundamentals,” organized by the Departments of CSE (AI & ML) and CSE (Cyber Security), RIT, in collaboration with Ramaiah Polytechnic, held from 5th–13th July and 6th–13th August 2025.
- Dr. A N Ramya Shree, Associate Professor, delivered an expert talk in the One-Week Workshop on “An Insight into Cyber Security Fundamentals,” organized by the Departments of CSE (AI & ML) and CSE (Cyber Security), RIT, in collaboration with Ramaiah Polytechnic, held from 5th–13th July and 6th–13th August 2025.
- Dr. Sahana Lokesh R, Associate Professor, delivered an expert talk in the One-Week Workshop on “An Insight into Cyber Security Fundamentals,” organized by the Departments of CSE (AI & ML) and CSE (Cyber Security), RIT, in collaboration with Ramaiah Polytechnic, held from 5th–13th July and 6th–13th August 2025.

Staff Achievements:

- Dr. Sahana Lokesh R, Associate Professor, Departments of CSE (AI & ML) and CSE (Cyber Security), received a seed money grant of ₹4,91,721 from the RIT Seed Fund 2025 for her approved research proposal.
- Dr. Rakesh Kalshetty, Assistant Professor, Department of CSE (AI&ML) and CSE (Cyber Security), has collaborated with INDPRO Pvt. Ltd. Bengaluru, a Sweden-based company, to sign a Memorandum of Understanding with the Department.

- Dr. Rakesh Kalshetty, Assistant Professor, Department of CSE (AI&ML) and CSE (Cyber Security), has collaborated with DeepStation. ai, Miami, Florida, a USA-based company, to sign a Memorandum of Understanding with the Department.

Student Achievements:

- Mr. Vishal (IMS22CI027) and Mr. Gaurav (IMS22CI077), students of the Department of CSE (AI & ML), won the National Bio Entrepreneurship Competition (NBEC) 2025 – Student Track, receiving an award of ₹200,000. The event was held at The Lalit Ashok on 23-08-2025 in Bengaluru.



- Mr. Vishwas Desai (IMS23CI135), a student of the Department of CSE (AI & ML), was nominated as a top performer in the Google Campus Student Ambassador program.



- **Mr. Pranay K R** (IMS23CI090) and **Mr. Rishab Tarakesh** (IMS23CI099), students of 4th semester **CSE (AI & ML)**, were declared the **1st Runners-up** at the **Warspeed Hackathon** held on 21st and 22nd June 2025. The event, organized by **LightSpeed** in collaboration with Devfolio, brought together top tech talent from across the country. As recognition for their outstanding performance, the team was awarded **\$1000 worth of Google Cloud Credits** as a track prize.



- **Mr. Prakash G** (IMS24SAI11), **Mr. Akhil R** (IMS24SAI01) and **Mr. Manjunath Patil** (IMS24SAI09), students of **II semester M.Tech (AI)**, for securing **third place** as members of **Team MAP** in the **AI-Agent Prompt-A-Thon** held on 21st May 2025. The event was organized by the **IEEE RIT-B Computer Society**. The team was awarded a Certificate of Appreciation for their innovative contributions.



- **Ms. Hemashree V. P.** (IMS24SAI04), a student of **II semester M.Tech(AI)**, has been recognized among the **top 1%** of performers for the course **Python for Data Science** in the **NPTEL Jan-May 2025** examination.

- **Ms. Kavya Natikar**, Department of CSE (AI&ML), has successfully cleared the Karnataka State Eligibility Test (K-SET) and received the Full-Time Eligibility Certificate from the Karnataka Examinations Authority (KEA) with a score 158.
- **Dr. Rakesh Kalshetty**, Department of CSE (AI&ML), Journal Paper **“Abnormal event detection model using an improved ResNet101 in context-aware surveillance system,”** was published in Cognitive Computation and Systems Wiley (on behalf of The Institution of Engineering and Technology), has been recognized as one of the **Top 10 Most-Cited Papers of 2024**.
- **Mrs. Shankamma and Dr. Mohan Kumar** from the Department of CSE (Cyber Security) guided the project titled **“AI Powered Chain of Custody Tracker for Digital Investigations,”** which was awarded **Best Project Award by the MSRIT Alumni Association**. The project team comprised students Anu (IMS21CY010) Meghana (IMS22CY402), Chaitra (IMS21CY028) and Sanvi (IMS22CI404).
- **Dr. Rakesh Kalshetty** from the Department of CSE (AI&ML) guided the project titled **“MechaMachine - An Autonomous Firing System,”** which was awarded **Best Project Award at MSRIT Pradharshana 2025**. The project team comprised students Kshitij V Kulkarni(IMS21CY024), Madhumitha Jagdish(IMS21CY030) and Surya K(IMS21CY056).
- Dr.Sini Anna Alex, Department of CSE (AI&ML) guided the project titled “Computer Assisted Autoimmune Skin Disease” which was awarded **Best Project Award at MSRIT Pradharshana 2025**. The project team comprised students Pranjal Raj (IMS21CI039), Pratyush Arora (IMS21CI040), Sagar Nainwani (IMS21CI048) and Shriya Onkar(IMS21CI053).
- Dr. Sini Anna Alex, Department of CSE (AI&ML) guided the project titled “AI Powered Audio Video Summarization and Report Generation for Construction Site” and received Rs. 40,000/- RIT Seed Fund 2025. The project team comprised students Bishal Babu(IMS21CI013), Rajanlal Karna(IMS21CI042), Kaushik Raj Ghimre (IMS21CI027) and Priyanshu Mishra (IMS21CY039).

Ph.D Produced:

- Mr. Prasanna Kumar K. R. (USN: 1MS20PCS06), a full-time research scholar at Visvesvaraya Technological

University (VTU), successfully defended his Doctor of Philosophy (Ph.D.) dissertation titled “Implementing Efficient Task Scheduling Techniques in Fog Computing” on June 10, 2025, under the guidance of Dr. Siddesh G. M.

- Mrs.Chaitra R. (USN: 1MS20PCS02), a full-time research scholar at Visvesvaraya Technological University (VTU), successfully defended her Doctor of Philosophy (Ph.D.) dissertation titled “Design and Implementation of Anomaly Detection and Optimization in Images using Hybrid Bi-Directional GANs” on June 24, 2025, under the guidance of Dr. Siddesh

Industry Visit

- An industrial visit to **Golbalswas** organized for **second-year students of CSE (Artificial Intelligence & Machine Learning) and CSE (Cyber Security) on 23rd May 2025**. During the visit, students had the opportunity to interact with industry professionals, understand enterprise-level infrastructure, and gain insights into current trends and innovations in the tech industry.



- An industrial visit to **HP Enterprise** was organized for the **third-year students of CSE (Artificial Intelligence & Machine Learning) and CSE (Cyber Security) on 6th June 2025**. During the visit, students had the opportunity to interact with industry professionals, understand enterprise-level

infrastructure, and gain insights into current trends and innovations in the tech industry.



- **Students from the CSE (AIML) and CSE (CY) programs recently visited Globals Inc.,** a leading cybersecurity firm, on 23/06/2025. During the visit, they were given exclusive access to observe certain operations typically restricted to higher clearance levels. The program provided them with valuable insights into the organization's strategies for addressing modern cybersecurity challenges and the advanced tools utilized to mitigate them.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



- Department conducted Faculty Develop Program on "Federated Learning for secure and Privacy Preserving Artificial Intelligence " from 28th July to 1st August, 2025



- The Faculty Development Program commenced with a formal inaugural ceremony, graced by the esteemed presence of Dr. Kota Solomon Raju, Chief Scientist, who served as the Chief Guest and Keynote Speaker. Adding to the dignity of the occasion were Dr. Vijaya Kumar B P, Professor & Head, Department of AIDS, and Dr. Jagdeesh S. Kallimani, Professor & Head, Department of AIML. The proceedings began with a warm welcome address by Dr. Sowmya B. J., who also had the honor of introducing the Chief Guest to the audience.



- **Dr Vijaya kumar B P: – 'IEEE CIS High outreach program for Navkis High school under "IEEE Computational intelligence society" funding ' for 5 days in August - Sept, 2025.** 'IEEE CIS-High School Outreach Program' the main aim is to To introduce computational intelligence concepts, techniques and its significance, key application areas where the CI technology is being employed to impart problem solving and analytical skills, To provide an interaction with industry experts for high students to understand current trends and career opportunities in computational intelligence and successful execution of the same gave wonderful experience in teaching computational intelligence concepts to high school students of "Navkis High School Educational Centre, Bangalore"



- Department conducted Faculty Develop Program on “Quantum Frontiers-Materials, Modelling and Computing” from 8 - 12 September 2025.
- The Faculty Development Programme (FDP) on “Quantum Frontiers – Materials, Modelling and Computing” organised by Department of Physics and Artificial Intelligence & Data Science in association with Quantum Cluster, RIT and QPIA commenced on 8th September 2025 with a grand inaugural function. The event brought together eminent academicians, researchers, and faculty members to explore recent advances and emerging trends in Quantum Science and Technology.



- **Dr. Sowmya B J: Industry Visit to Hewlett Packard Enterprise (HPE) on 06-06-2025:** An industry visit was organized for students to Hewlett Packard Enterprise (HPE) on 6th June at their office located in Mahadevapura, Bangalore. The visit provided valuable exposure to data center operations and allowed students to gain insights into real-world applications of enterprise technology infrastructure

Publication Details

- **Dr. Vaneeta M** - "Real-Time Object Detection for an Intelligent Retail Checkout System," 2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, India, 2025, pp. 1-6, doi: 10.1109/IITCEE64140.2025.10915293.
- **Harshdh Bhambure Parvin**- "Video Forensic Analysis Using Deep Learning Models," 2025 International Conference on Emerging Technologies in Computing and Communication (ETCC), Bangalore, India, 2025, pp. 1-6, doi: 10.1109/ETCC65847.2025.11108521..

Journals

- **Dr. Sowmya B J** – ‘Enhanced Multimodal Webpage Classification Using Deep Learning for Efficient Information Retrieval.’, Journal of Computational and Cognitive Engineering.Sep 2025
- **Dr. Kusuma T**– “Smart Contract-Driven Nft Trading Platform Using Ethereum And Decentralized Storage”, Int. J. Environ. Sci., pp. 6231–6237, Sep. 2025, doi: 10.64252/cw9asz16.- 10th Sep 2025

International Conferences:

- **Vinay T R, Mohan B, Satish E G**, “AI Powered Forensic Investigations Using GAN for Aging Faces ” ,International Conference on Artificial Intelligence and Computing (ICAIC 2025), Department of Computer Science and Engineering, SCSE at Manipal University Jaipur, India, September 18 – 19, 2025.
- **Dr. Vinay T R, Ramesh Naidu** - “Machine Learning Based Analysis and Visualization of Cyber Security Attacks on a Company “ , 6th INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES 2025, Jain College of Engin. , Belgavi, 22nd –24th May 2025.
- **Dr. Vinay T R, Dr Ajina A, Soumya Joshi** - “Video Forensic Analysis Using Deep Learning Models”, International Conference on Emerging Technologies in Computing and Communication (ETCC 2025), PES University, Electronic City Campus, Bangalore, June 26–27, 2025.

Guest Lecture delivered by the department faculty –

- **Dr Vijaya kumar B P:** – ‘IEEE-Connect 2025, Track Chair: Key note: Frontiers and Challenges

in Computational Intelligence: Trends and Future Prospects', Invited as Session Chair, Sterling's Mac hotel, Bangalore from 10-07-2025 to 13-07-2025.

- **Dr. Vinay T R** - Technical Talk on "Introduction to NoSQL Databases: Beyond Relational Data" , Department of Computer Science and Engineering, Nagarjuna College of Engineering, Bengaluru, Date: 31st May 2025.
- Dr. Vijaya Kumar B : "Thriving in the age of AI" at Ramaiah Institute of Technology, Bangalore India on 09-06-2025 "Invited"
- Dr. Vijaya Kumar B. P. – **Industry visit to Talk on "Life Blyton Urology – How To Use AI" at Bangalore Urological Society on 30-05-2025**, Bangalore

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

- **Dr Vijaya kumar B P:** – 'Academic Council member', Sahyadri College of Engineering, Bangalore on 01-08-2025
- **Dr Vijaya kumar B P:** 'Academic Council Member' VTU Nominee, Dayananda Sagar Academy of Technology and Management, and attended the meeting 2025.
- **Dr Vijaya kumar B P:** 'Academic Council Member' VTU Nominee, East point college, Bangalore.
- **Dr Vijaya kumar B P:** VTU Expert Member for Internal Quality Assessment at Mangalore Institute of Technology (MIT) on 12th and 13th Sept. 2025.
- Attended meeting at Sahyadri college, 1 Aug 25



- Attended IQAC audit @MIT on 12 Sept, 25



- Dr. Vinay T R was promoted to Associate Professor on 21st July 2025.



As part of the visit, students had the opportunity to:

- Observe live demonstrations of data center processing and understand critical aspects of data management and infrastructure.
- Engage in interactive discussions with HPE mentors who are guiding the students' ongoing project worklets.
- Learn about cutting-edge technologies and practices followed in the industry, directly from professionals.
- **Dr. Vinay T R** - Certificate of Appreciation from Samsung PRISM Program for Worklet Completion of Project titled "Customized federated learning framework for resource constrained devices"

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



- The Faculty Development Program titled 'Federated Learning for Secure and Privacy-Preserving Artificial Intelligence' was conducted from 28th July to 1st August 2025. The FDP provided insights into decentralized learning, data confidentiality, and secure model training, enabling participants to understand FL frameworks, privacy mechanisms, and emerging trends in secure AI systems.



- The Faculty Development Program titled 'Innovative Integration of Computer Vision and Artificial Intelligence in Healthcare' was held from 18th to 23rd August 2025, focused on advanced AI and computer vision applications in healthcare, covering medical image analysis, diagnostic automation, and practical tools that enhanced participants' research skills and technical expertise.

Publications:

- Dr. Meeradevi, 'A Computer Vision Approach Using OpenCV2 and YOLO V3', Advances in VLSI, Signal Processing and Wireless Communication: Proceedings of ICOCS 2023.
- Dr. Meeradevi, 'DeConvolve: Towards Textually Explainable and Human Cognizable Convolutional Networks', Cybernetics And Information Technologies Journal.
- Dr. Meeradevi, 'VisuWeave: Dynamic Concept Visualization driven by a Novel Piston Framework', Procedia Computer Science Journal.
- Dr. Meeradevi, 'PathoVision: Multimodal Deep Learning for Advancing Pathology Imaging with Explainable Artificial Intelligence', Springer- ISBM 2025.
- Dr. Meeradevi, 'AI-Powered CT Scan Enhancement: Turning CTs into MRI Quality Images for Faster and Safer Diagnoses', Indonesian Journal of Electrical Engineering and Informatics (IJEI).
- Dr. A Ajina, 'Comparison study of OCR models in Intelligent Traffic Management System for Automatic

Number Plate Recognition', International Journal of Communication Networks and Information Security (IJCNIS), Mar. 2025.

- Dr. A Ajina, 'AI-Powered Safety Monitoring on Metro Platforms with Computer Vision Integration', Tuijin Jishu / Journal of Propulsion Technology 2025.
- Jagadish S Kallimani, 'Intelligent Automation and Predictive Technologies in Hospitals: Adoption Trends, Benefits, and Implementation Challenges', TPM - Testing, Psychometrics, Methodology in Applied Psychology, Vol. 32, No. S5, Sept 2025, ISSN: 1972-6325.
- Jagadish S Kallimani, 'Design and Implementation of IoT-Enabled Embedded Systems for Smart Home Automation', International Journal of Environmental Sciences, Vol 11, No. 3, ISSN: 2229-7359, June 2025.
- Jagadish S Kallimani, 'AI-based Speech Recognition Systems for Assistive Technologies', International Journal of Environmental Sciences, Vol 11, No. 3S, ISSN: 2229-7359, June 2025.

Paper presentation in National / International Conferences:

- Jagadish S Kallimani, 'A Comprehensive Survey on AI-powered Vision Assistants for Visually Impaired', First International Conference on Computer Vision, Communication System and Computational Intelligence (CVCNCE-2025), Taylor & Francis, May 08-09, 2025.
- Jagadish S Kallimani, 'An Automated Deep Neural Network (DNN) and Support Vector Machine (SVM) Model for Facial Emotion Classification', International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering (RMKMATE2025), 7th May 2025, IEEE Scopus, Kavaraipettai, Tamil Nadu.
- Jagadish S Kallimani, 'Deep Belief Networks (DBN) for cloud-based malware detection and Analysis', International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering (RMKMATE2025), 7th May 2025, IEEE Scopus, Kavaraipettai, Tamil Nadu.

- Jagadish S Kallimani, 'Diabetic Retinopathy detection using Region based convolutional neural network (RCNN) and classification based on Retinal Fundus Images', International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering (RMKMATE2025), 7th May 2025, IEEE Scopus, Kavaraipeetai, Tamil Nadu.
 - Dr. Meeradevi, 'PID-1236- Deep Learning based Prognostic Modeling for Alzheimer Disease', IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE 2025).
 - Dr. A Ajina, 'A High-Level Security Techniques on Quantum Security for Post Quantum Cryptography', 2025 International Conference on Emerging Technologies in Computing and Communication (ETCC).
 - Dr. A Ajina, 'An Integrated System for Real-Time Greenhouse Environmental Forecasting and Adaptive Crop Management', CS & IT Conference Proceedings.
 - Dr. A Ajina, 'Video Forensic Analysis Using Deep Learning Models', 2025 International Conference on Emerging Technologies in Computing and Communication (ETCC).
 - Dr. Bhavya M, 'Attention Guided hybrid Deepfake detection Model using VCH-19 Optical flow and face embeddings', IEEE International Conference for Women in Innovation, Technology and Entrepreneurship(ICWITE).
 - Dr. Manasa S M, 'Competent Way to Publish Heterogeneous Satellite Data on Web Deploying Semantic Technologies', 2025 International Conference on Computing and Communication Technologies (ICCCT).
 - Dr. Manasa S M, 'IoT Based Real-Time Smart Kitchen Automation and Monitoring System Prototyping with Arduino', International Conference on Sustainable Communication Networks and Application (ICSCN-2025).
 - Dr. Manasa S M, 'An Advanced IoT-based Automated Waste Segregation System for Smart Cities', International Conference on Sustainable Communication Networks and Application (ICSCN-2025).
 - Dr. Manasa S M, 'IoT-Driven Early Warning System for Diabetic Foot Ulcer Deploying ML Algorithm', 5th International Conference on Pervasive Computing and Social Networking (ICPCSN), 2025.
 - Sriraksha P J, 'Forensic Face sketch Generation and AI Driven Recognition', 2nd International conference on Recent Developments in Electronics and Communication Systems. (RDECS-2025).
 - Priya M, 'Fortifying Cloud Storage: Safeguarding Sensitive Information in Outsourcing', International Conference on 'Global Synergies: Innovations in Business Technology and Education', Innobte 25.
 - Priya M, 'Xploring Traditional and Contemporary Toll Gate Payment Systems Highlighting Strengths and Pitfalls', International Conference on 'Global Synergies: Innovations in Business, Technology and Education', Innobte 25.
- Guest Lectures – Invited**
- Mr. Anoop Kumar, Ishvi, delivered a talk on 'Global Innovative Educational Studies', on 4th April 2025.
 - Dr. Lepakshi Raju, Anulekavi Ventures, delivered a talk on 'Key Concepts in Management and Entrepreneurship' on 15th May 2025.
 - Mr. Ajay V J, Accenture, delivered a talk on 'recent trends in application domains of Artificial Neural Networks' on 25th May 2025.
 - Lt. Vivek, Indian Navy delivered an alumni talk on 'Opportunities for Engineers in the Indian Navy' on 18th September 2025.
- Guest Lecture delivered:**
- Dr. Meeradevi was a resource person for Faculty Development Program on 'Responsible Generative AI & its applications' on 12th Sept 2025 organized by ATAL-AICTE Training and learning academy at Jyothy Institute of Technology, Bangalore
- Funded Project:**
- Dr. Meeradevi has received RIT seed funding of Rs. 2,34,891/- for the work titled 'Next Gen Litter Surveillance Leveraging IoT Computer Vision and Machine Learning'.

Patents:

- Dr. Meeradevi received the Indian patent grant for the title 'Portable Tender Coconut Chopping Machine', with Patent_ID:202041022877.

Reviewers:

- Dr. A. Ajina, reviewer for the journal 'Machine Learning with Applications', 2025

Session Chair:

- Dr. A. Ajina, session chair, International Conference on Materials, Robotics and Automation, Computer and Controls (ICMRACC-2025), on 25th August 2025, organized by Vimal Jyothi Engineering College, Kannur.

**DEPARTMENT OF AEROSPACE
ENGINEERING**

Publications in International Journals

- **Vigneswaran C.M., Hasan, I.,** Ramakrishnan, S., & Venkateshappa, S. (2025). Streamlining fluid flow: injection slot optimisation for co-flow jet airfoil. Progress in Computational Fluid Dynamics, 25(4), 201-212.
- **J.R. Pothnis,** A. Hejjaji, G.S. Bhatia, A. Comer, Failure analysis under fatigue loading of glass fibre reinforced in-situ polymerizable thermoplastic and Bio-epoxy based Composites, Composites Part C, Volume 17, July 2025, 100608.
- **Inamul Hasan., Vigneswaran C M,** R Mukesh, R Srinath (2025) "Numerical Analysis of Low-speed Characteristics of Blended Wing Body Aircraft using Laminar Flow Airfoil and Supercritical Airfoil". In International Journal of Vehicle Structures & Systems (IJVSS) (2025, Vol. 17 Issue 4, p653-659. 7p.

Guest Lecture delivered by the department faculty

- **Dr. Jayaram R. Pothnis,** Associate Professor and HOD Delivered Invited Talk Titled "Integrating Performance and Sustainability: Hierarchical Composites in Aerospace Innovation" on 18/08/2025 as part of FDP Titled "Recent Advances and Innovations in Multi-Disciplinary Composite

materials (RAIMCM-2025)" Organized by Dept. of Chemistry, RIT, Bengaluru

MOOC Courses Cleared

- **Dr. Inamul Hasan** has Cleared "Aircraft Design" in an Elite Category conducted by NPTEL-SWAYAM MOOC course in Jan – April 2025

**MASTER OF COMPUTER
APPLICATIONS**



- **Student Development Programme on Full Stack Development:** A two-day SDP was held on 31/05/2025 and 02/06/2025, featuring interactive lectures and hands-on sessions on React.js, Node.js, Express, and MongoDB. Students built components of a full-stack application, explored deployment strategies, and gained coding insights from Mr. Channabasappa Heralgi, Technical Architect, Tektronix India Pvt. Ltd., motivating them toward careers in web and software development.



- **Partial delivery on Data analytics and Visualization:** The Department of MCA organized a partial delivery session on "Introduction to Pandas, NumPy, and Visualization Concepts" for II semester students. Mr. Vaibhav Singh from Unisys introduced Data Analytics and Visualization, followed by hands-on practice with NumPy arrays, functions, indexing, and matrix operations, as well as Pandas series, data frames, and visualizations using Matplotlib and Seaborn.



- **Partial Delivery on Introduction to Artificial Intelligence:** Department of MCA conducted Partial delivery for the Course "Introduction to Artificial Intelligence" on 26th June 2025 for II semester students. Mr. Sateesh from Unisys delivered a Lecture and hands-on session on the topic "Computer Vision using OpenCV".



- **Project Competition conducted for Final year Students -IV semester 2023 Batch on July 5th 2025:** As part of the Final Year Project Evaluation for the academic year, all project teams presented their work before the departmental review panel. Project evaluation followed a rigorous assessment process to identify the most innovative, impactful, and technically strong projects. Each faculty guide was responsible for nominating the best project from the teams under their supervision. These nominated projects were then forwarded for alumni evaluation. The Final Year Project evaluation and alumni assessment created a strong platform for students to showcase their skills, creativity, and technical competence.



Cybersecurity Practices and Ethical Hacking:
 Navigating Legal Challenges

- The Department of MCA at Ramaiah Institute of Technology, organized Student, Development Programme on Cybersecurity Practices and Ethical Hacking: Navigating Legal Challenges "on 18th and 19th July 2025 for students of II semester MCA. The experts are from Ditto Security Innovation. The workshop introduces participants to the foundational concepts of Cyber Security and Ethical Hacking. It is designed to equip attendees with the knowledge of current cyber threats, ethical hacking techniques, and defense mechanisms used in the modern cyber world. Through real-world examples, demonstrations, and guided labs, participants will learn both offensive (hacking) and defensive (protection) strategies in a controlled environment.

Publications in (National / International) Journals:

Faculty:

- **Dr S Ajitha, Komal S Kallanagoudar, Manish C C** - "AlexNet-Based Detection of Vitamin Deficiency in Humans" Journal of Xidian University, Volume 19, Issue 5, 2025, pp 339-347.
- **S. Ajitha; Geetanjali R; Thushar Thimmaiah NK**, "Speech Emotion Recognition using Machine Learning," 2025 International Conference on Artificial Intelligence and Data Engineering (AIDE), Nitte, India, 2025, pp. 40-44.
- **Swathi M, Sahana B, Deepali U** - Facial Expression-Driven Music Recommendation Using Machine Learning Techniques - Journal of Xidian University – Scopus Q4 - Volume 19, Issue 5, 2025.
- **Mrs. Savitha K ,Dr. S Ajitha , Ms. Sahana**—Sleep Disorder Prediction using Machine Learning - Journal of Xidian University – Scopus Q4 - Volume 19, Issue 6, 2025.

- **Swathi M, Sahana B, Deepali U** -"Facial expression – driven music recommendation" -, Journal of Xidian University, Volume 19, Issue:5 pg :513-525 <https://doi.org/10.5281/Zenodo.15422973>,
- **Sheela B, Komala R**- SMS Spam Detection Using Machine Learning: An Experimental Study, International Journal of Emerging Trends in Engineering Research-Volume 13, No.7, July 2025, <https://doi.org/10.30534/ijeter/2025/011372025>

Students:

- Punith Y , Swathi M, Manjunath M - Aircraft Delay Prediction Tool Using Machine Learning Hybrid Model - Journal of Xidian University – Scopus Q4- Volume 19, Issue 6, 2025.
- Lakshan Saravanan , Swathi M, Savitha K - Predicting the Likelihood of Questions for Future Assessments Using Neural Networks (Enhanced Question Probability Model (EQPM) - Journal of Xidian University – Scopus Q4 - Volume 19, Issue 6, 2025.
- Shrirama Kamath, Swathi M, Savitha K - A Cloud-Based Video Streaming Platform for Poetic Expressions - Journal of Xidian University – Scopus Q4 -Volume 19, Issue 7, 2025.
- Kruthika Deshpande, Swathi M, Savitha K - IDS TO DETECT M-I-M-A USING IOT - Journal of Xidian University – Scopus Q4 - Volume 19, Issue 7, 2025.
- Jeevitha P, D. Evangelin Geetha "Comparative Analysis of Machine Learning Models for Forest Degradation Prediction based on Tree Loss Data -- Journal of Xidian University – Scopus Q4 - Volume 19, Issue 6, 2025.
- Abhishek Gowda P, D. Evangelin Geetha, Komal S, "Data-Driven Decision Making in Airlines: Pricing and Flight Analysis using Power BI "-Journal of Xidian University – Scopus Q4 - Volume 19, Issue 6, 2025.
- Darshan A.K. Career Recommendation Website: A Machine Learning Approach Using RandomForest and Power BI Visualization Scopus Q4 - Volume 19, Issue 6, 2025.
- Bushira Kariappa H, BioIDScan: Fingerprint-Based Blood Group and Pattern Analysis Using Machine Learning Scopus Q4 - VOLUME 19, ISSUE 6, 2025.

Paper presentation in National / International Conferences:

- **Komala R, Dr. Arunkumar B R**, "Self-Sovereign Identity(SSl)forDataPrivacyandSecurityinUbiquitous Multi-Cloud Computing (UMCC): A literature Survey and Analysis"- International Conference: Springer ICT4SD, Goa, India, August 9th 2024, conference Published June 2025. https://link.springer.com/chapter/10.1007/978-981-97-9526-0_32
- **Geetanjali R, D Evangelin Geetha** - 'Hybrid Models and Causal Inference Techniques for Optimizing Climate Science: A Comprehensive Review', 2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS), Presidency University Bangalore, July 11 ,2025
- **Geetanjali R, Sreehari T M**, Detection of Phishing websites using Machine Learning, 2025 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, July 11,2025

Guest Lecture delivered by the department faculty

- **Sreenivasan A** – 'Issues with high speed flow computations', Department of Computer Science, SLN Institute of Engineering and Technology, Bidar, 05/12/2021.
- **Dr. Manjunath M.**, a Three-Day Hands-on Training titled "IoT 4.0: The Role of Internet of Things and Smart Robots in Industry, Healthcare, and Smart Cities" from April 18 - April 20th , 2025, at RTE Society's Arts, Science, and Commerce Degree College, Ranebennur - 581115, affiliated to Karnatak University Dharwad and Haveri University.
- **Dr. Manjunath M.** "From Sensors to Strategies: Harnessing IoT for Data-Driven Decisions", organized and conducted at the Department of Master of Computer Applications at Atria Institute of Technology, Bangalore, on 15/04/2025.
- **Dr. Manjunath M**, Session: Future in Motion: IoT and Robotics - IFIM College in collaboration with AICTE Training and Learning (ATAL) Academy during FDP on Integrating IoT with Full Stack Development for Smart Solutions (Online, 20/08/2025).

Funded Project:

- **Dr Manjunath M and Dr Ajitha S** - "IoT-Driven Livestock Health Management with ML Integration," Seed Funding Grant by Ramaiah Institute of Technology (RIT) on June 16th, 2025. Grant: 3,63,850 lakhs.

Patents:

- **Manjunath Muniswamy, Ajitha Santhakumari, Devaraj Evangelin Geetha, Shilpa Manjunatha Rajamma, Bharathi Somashekhar, Vasanthram Srinivas, Amar Prem Karunakaran** "Smart Behavioral Health Tracking in Animals Using IoT And ML", Indian Patent 202541058251, June 17, 2025 (Filed).
- **Swathi M** - Artificial Intelligence Model for Multivariate Time-Series Health Data Analytic Device, Design number: 6456230, UK design, 23.7.2025 Granted,
- **Sahana, Deepali U** - Artificial Intelligence Based Anomaly Detection Device for Zero Trust Network Architecture, Design number:6464901 UK Design, 20.8.2025 Granted

DEPARTMENT OF EXTRA CURRICULAR ACTIVITIES

- **UDBHAV 2025**, took place from June 4 to June 6, 2025. Recognized as one of South India's premier college festivals, UDBHAV brought together thousands of students, artists, and creators from across the state as well as the state. The theme for this year's fest was "Co-existence of Contrast"
- **Duality – The Coexistence of Contrasts**". The events reflected this theme by blending different styles, moods, and ideas. From fusion dance and dual-themed art to paired performances, participants engaged with both sides of a concept, highlighting the power of contrast to inspire fresh perspectives and creativity⁵⁵⁵⁵.

Event Highlights and Participation

- UDBHAV 2025 served as a platform for both
- intra-college and inter-college competitions in various domains, including music, theatre, dance,

literary arts, and miscellaneous events⁶. The fest saw participation from over

- 15 institutes from Karnataka and 3 inter-state college teams⁷.

The events were categorized as follows:

- **Music:** The fest featured "Battle Of The Bands" (VIVACE), "Indian Vocal Solo" (AAHIRI), "Western Vocal Solo" (SYMPHONICS), and "Instrumental Solo" (TRISHRA)⁸. The total prize money for music events was ₹47,000.
- **Theatre:** Events included "Short movie" (ANTITHETICAL ACCORD), "Skit" (RANGANTARANG), and "Mad ads" (AD-MANIA)¹⁰. The total prize pool for theatre events was ₹34,000.
- **Dance:** The main dance event was the "Group Dance" competition, titled "EKATVA" (Eastern group dance)¹²¹²¹²¹². The first prize was ₹10,000 and the second prize was ₹7,000. The total prize money was ₹17,000¹⁴¹⁴¹⁴.
- **Literary:** The literary events included "General Quiz" (Quiz ex Machina), "MUN" (RACHANA), and "Criminal Inquest" (Unmask The Mystery). The total prize pool was ₹23,000.
- **Miscellaneous:** This category included "Cosplay" (COSPLAY MATSURI), "Video Editing" (REEL RUSH), "Photography" (FOCUSED EXTREMES), and gaming events like "BGMI" and "Valorant"¹⁷. The total prize money for these events was ₹35,500.

A major highlight of the fest was the much-anticipated

- **Pro-Show Concert** on June 14, 2025. The event also offered a substantial prize pool of ₹2.2 Lakhs, which served as a significant incentive for participants and elevated the competitive spirit throughout the fest.

Mainstage Events

- The mainstage of UDBHAV 2025 was a hub of energy and talent, featuring a series of captivating performances and competitions.
- **Day 1 (June 13, 2025):** The day began with the inter-college "Battle Of The Bands" (BOTB) competition from 10:00 am to 1:00 pm. The afternoon featured a music performance by an inter-college team (IMT) from 2:00 pm to 3:30 pm, followed by a performance from an artist/influencer from 3:30 pm to 4:30 pm.

The day concluded with dance performances by the college's dance clubs, including "Lasya" and "TNT". An entertainment segment titled "Tamte" was held from 5:00 pm to 6:30 pm.

- **Day 2 (June 14, 2025):** The mainstage events kicked off with the inter-college "Group Dance" competition from 10:00 am to 12:00 pm. After a break, the afternoon session featured a music performance by a college team (WMT) from 2:00 pm to 3:30 pm. The stage also hosted performances by the dance club "Prayaag" and the fashion club "Inara". A major highlight of the day was the



DEPARTMENT OF ARCHITECTURE

- The School of Architecture, RIT celebrated International Yoga Day on May 16th, 2025, with great enthusiasm. The event focused on the importance of overall well-being and how yoga helps connect the mind, body, and spirit. It aimed to promote better physical and mental health among students and faculty. The session highlighted how yoga can help manage stress, improve focus, and boost creativity. It was especially useful for students in a challenging course like architecture.



- The School of Architecture, RIT conducted a site visit to a timber house in Mathikere as part of the 2nd Semester Architectural Design Studio on 1st and 8th April 2025. The visit gave students a hands-on understanding of timber construction techniques and the practical aspects of architectural design.



- The School of Architecture, RIT conducted a site visit to HV Nanjundaya Heritage Bungalow in the Government Girls High School campus in Malleshwaram on 28th May 2025 as part of the 8th Semester BMCT Studio. The visit provided students with practical insights into retrofitting techniques and the challenges involved in conserving and adapting heritage buildings for contemporary use.



- The School of Architecture, RIT conducted a site visit to the Alumni Block at Ramaiah Institute of Technology on 14th May 2025, as part of the 4th Semester Building Services class. They got an understanding into electrical distribution within the building, students also visited the transformer yard on campus.
- The School of Architecture, RIT conducted a site visit to a construction site on ISRO road, Sanjay Nagar, on 2nd June 2025 as part of the 4th Semester BMCT studio. The visit provided students with practical insights into RCC slab reinforcement details for one way and two way slabs.



Publications in (National / International) Journals:

Faculty

- **Meghana K Raj, Sreesha S Bhat** - 'Insights from Campus Street Design: A Case Study Approach for Enhancing Public Spaces in Bangalore', Gradivia Review Journal, Vol.11 No. 4, (2025), pp 116-124.

Guest Lecture/s – Invited

- **Mr. Abdul Sathar**, Proprietor, Abdul Sathar & Associates- 'Tensile Structures', 07-05-2025
- **Er. Ravi Kumar C K**, Structural Engineer Salimgineering- 'From Blue Print to Budget: Estimation Best Practices', 09-05-2025
- **Ar. Prasad Shetty**, Urbanist, Dean & Professor, The School of Environment and Architecture, Mumbai- 'A

Guide to Selecting the right Thesis Project', 10-05-2025

- **Dr. Jyothilakshmi R**, Asst. Prof. Dept. of Mechanical Engineering., RIT- 'IPR & Patentability Criteria', 12-05-2025
- **Mr. Venugopal V G**, Artist and Educator, VG Artspace- 'Woodcut Printmaking', 28-05-2025

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

- **Kavyashree S.**, 4th semester student at SOA, RIT was awarded a certificate for 'Best Storyline' for her participation with her team in 'National Level 36-hour Gameathon' held at REVA University between 24th and 26th April 2025.
- **Nikitha S.**, 8th semester student at SOA, RIT won 1st place for singing at the inter-collegiate meet 'Udyatham Sports and Cultural Fest' held at Gopalan School of Architecture and Planning between 14th and 17th May 2025.

Sports

- **Akshay N., Varnika, Khushi J., Manpreet and Sagar** from 8th and 4th semesters won 1st place in Table Tennis, at the inter-collegiate meet 'Udyatham Sports and Cultural Fest' held at Gopalan School of Architecture and Planning between 14th and 17th May 2025.
- **Varun, Prajwal, Manpreeth, Danish, Akhil, Viraansh, Jibin, Ravi, Harsha, Adarsh, Tilak and Padmraj** from 8th, 6th, 4th and 2nd semesters won 1st place in Kabaddi, at the inter-collegiate meet 'Udyatham Sports and Cultural Fest' held at Gopalan School of Architecture and Planning between 14th and 17th May 2025.
- **Pranesh, Anirudh and Nehal** from 8th and 2nd semesters were runners up in Badminton, at the inter-collegiate meet 'Udyatham Sports and Cultural Fest' held at Gopalan School of Architecture and Planning between 14th and 17th May 2025.
- **Viraansh, Likhith, Raj and Ann Aby** from 6th, 4th and 2nd semesters won 1st place in Athletics, at the inter-collegiate meet 'Udyatham Sports and Cultural Fest' held at Gopalan School of Architecture and Planning between 14th and 17th May 2025.



- **Pranesh** from 8th semester was a part of the Institutional Cricket team that won 1st place at the inter-collegiate meet 'Aavhan -All India Sports Fest' held at IIT Bombay.



DEPARTMENT OF BIOTECHNOLOGY

- The Department of Biotechnology and the Department of CSE (Artificial Intelligence & Machine learning), Ramaiah Institute of Technology and Boltzmann Labs, Bangalore are planning to jointly organize a Five Day Faculty Development Program on "Integrating AI Tools in Biotechnology Research", during 01 to 06 Sept 2025.

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-phytocompunds 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. RIT Seed Fund 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., RIT Seed Fund dated 01.02.2024, Rs. 5.18 Lakhs.
- **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), 07.06.2024, 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), 27.07.2023, Rs.54.29. Lakhs.

Publications in International Journals:

- **Monika, P.,** Krishna, R. H., Hussain, Z., Nandhini, K., Pandurangi, S. J., Malek, T., & Kumar, S. G. (2025). Antimicrobial hybrid coatings: A review on applications of nano ZnO based materials for biomedical applications. Biomaterials Advances, 214246 (July 2025)
- **Sudarsan, S., Murugesan, G.,** Varadavenkatesan, T., Vinayagam, R., & Selvaraj, R. (2025). Activated carbon derived from Spathodea campanulata pods via H₃PO₄ activation and low-temperature carbonization for efficient Rhodamine B removal: Mechanistic insights and spiking study. Diamond and Related Materials, 112806. (22 August 2025).
- **Sadanandan, B.,** Yogendraiah, K. M., Kyathsandra Natraj, L., Vijayalakshmi, V., & Shetty, K. (2025). Optimization of Candida tropicalis growth conditions on silicone elastomer material by response surface

- methodology. *Frontiers in Bioengineering and Biotechnology*, 13, 1572694. (July 2025).
- Juturu, R., Vinayagam, R., **Murugesan, G.**, & Selvaraj, R. (2025). Synthesis and characterization of Zn and Fe doped magnetic biochar from *Acacia falcata* leaves for Cr (VI) adsorption. *Scientific Reports*, 15(1), 22146. (July 2025).
 - Singh, S., **Murugesan, G.**, Vinayagam, R., Varadavenkatesan, T., & Selvaraj, R. (2025). Adsorptive removal of fluoride from water using hydroxyapatite synthesized from marine shell waste. *Scientific Reports*, 15(1), 25598 (July 2025).
 - Vinayagam, R., Shetty, S. A., **Murugesan, G.**, Goveas, L. C., Varadavenkatesan, T., & Selvaraj, R. (2025). *Peltophorum pterocarpum* flower mediated synthesis of silver nanoparticles and its catalytic degradation of Acid Blue 113 dye. *Scientific Reports*, 15(1), 26452 (July 2025).
 - **Sadanandan, B.**, & Yogendraiah, K. M. (2025, August). *Enterococcus faecalis* Biofilm: A Clinical and Environmental Hazard. In *Medical Sciences Forum* (Vol. 35, No. 1, p. 5). MDPI (August 2025).
 - **"Monika, P.**, Krishna, R. H., Baliga, A. B., Ravisagar, K., Roy, R. S., Lalitha, K. C., & Kumar, S. G. (2025). Unveiling new frontiers in advancements of metal oxides nanoparticles (ZnO, TiO₂, CuO and Ag₂O) and their hybrids for antibacterial applications: A Review on mechanistic insights and toxicity. *Hybrid Advances*, 100522(July 2025).
- during the workshop on "Integrating AI Tools in Biotechnology Research" on 02.09.2025.
- Mr. Paritosh Prasha, Cofounder, Boltzmann Labs Pvt Ltd, Hyderabad, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 02.09.2025.
 - Dr Josy Elsa Varghese, Assistant Professor in CSE (AI & ML), Department of Ramaiah Institute of Technology, Bengaluru – 560054, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 05.09.2025
 - Ms. Aswini Javvadi, Boltzmann Labs Pvt Ltd, Hyderabad, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 03.09.2025.
 - Ms. Catherine Tomy, Boltzmann Labs Pvt Ltd, Hyderabad, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 03.09.2025.
 - Dr. Sini Anna Alex, Associate Professor in CSE (AI & ML), Department of Ramaiah Institute of Technology, Bengaluru – 560054, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 04.09.2025
 - Dr. Vetriselvi Rangannan, Project Scientist III, PDB-India, Molecular Biophysics Unit, IISc, Bengaluru – 560054, delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 05.09.2025.

Guest Lecture/s – Invited

- Dr. S. Indran, Professor, Alliance School of Applied Engineering, Alliance University, Bengaluru - 562106, (Alliance University), delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 01.09.2025.
- Dr. P. Senthmari Kannan, Assistant Professor, Alliance School of Applied Engineering, Alliance University, Bengaluru- 562106, (Alliance University), delivering a technical lecture during the workshop on "Integrating AI Tools in Biotechnology Research" on 01.09.2025.
- Dr. Channarayappa, Professor in the Department of Biotechnology, Ramaiah Arts & Science College, Bengaluru – 560054, delivering a technical lecture

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

- Sindhu Mudagal, III semester won 3rd prize for Powerlifting championship for Women-2025-2026 held on 7th November 2025.
- Samhitha J P, Ravisagar K and Zayaan Hussain, VII semester won 1st prize for Poster presentation during "Paryavaran-2025", workshop on Environment and Green Energy on 15th September 2025 at RIT, Bangalore.

**DEPARTMENT OF INFORMATION
SCIENCE AND ENGINEERING**

Publications in (National / International) Journals:

- **Manishekhar SR**, Cyber physical systems related issues and digital twins for power and energy systems. Energy 4.0 Trends, Challenges, and Applications, . April 24, 2025, CRC Press
- **Pushpalatha M N**, AI-Driven Smart Classrooms and Emerging Technologies in Higher Education: A Data Analysis, Language, Literature and Education, Research Updates Vol. 2, 20 March 2025, Page 35-48, <https://doi.org/10.9734/bpi/lleru/v2/4387>
- **P. Anitha, M. Sumana, Immanuel Ryan, Metre Shreyas, S. Shreyas, Karthik Varun**, Horizons in Computer Science Research/ "A Comparative Analysis of K-Means and EM for Customer Segmentation Using the RFM Method, ".Volume 26, DOI:<https://doi.org/10.52305/FZHT7882>, Publication date:August 2025., Nova Science Publishers

Paper presentation in National / International Conferences:

- **Kusuma. S, Charunayana V, Shruthi J R, et.al.**, Movie Recommendation System Using Content-Based Filtering, First International Conference on Computer, Computation and Communication (IC3C-2025), 28-29 of March 2025., Ooty, Tamil Nadu (Hybrid Mode). Presentation on 28th March 2025
- **Shivananda S, Dinesh Besiahgari, Manjunath R**, A Smart IoT Solution for Automatic Potholes and HumpsDetection: Enhancing Road Safety, Proceedings of the International Conference on Intelligent Computing and Control Systems (ICICCS-2025) DVD Part Number: CFP25K74-DVD; ISBN: 979-8-3315-1207-1
- **M N Pushpalatha, A Parkavi, D M Mushtaq Ahmed, Arkodeep Koley, Ankesh M Naik, Ashish Kumar**, Kannada Speech to Sign Language Converter: A Novel Platform Integrates Indian Sign Language and Speech-to-Text Technology, May 2025 International Conference on Microwave, Optical, and Communication Engineering (ICMOCE), Bhubaneswar, India, 2025, pp. 1-5, doi: 10.1109/ICMOCE64100.2025.11077098

Text Book Published:

- **Dr. Geetha V, Associate Professor**, "Research Methodology: Concepts, Tools & Techniques on 10/04/2025 Assigned ISBN : 978-93-6422-053-8, Addition Publishing House.

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

- **Spreading Telecom & Cybersecurity Awareness – SancharMitr Initiative Shree Lakshmi Hegde**, Student of ISE, took part of the SancharMitr initiative, a campaign by the Karnataka LSA, DoT, under the Telecom Ministry, aimed at raising awareness on telecom safety and cybersecurity. On 26/06/2025, conducted an interactive workshop for 10th - grade students, covering topics like CEIR, TAF COP, CHAKSHU Portal, and cyber fraud prevention and received a Certificate of Recognition, presented during an address by Shri Akhilesh Kumar Gupta, Special DGT, Karnataka LSA, Bengaluru.
- **Rayyaan Farhan**, First runners up -Received 1.5 L and 1000 USD in Warpspeed Agentic AI Hackathon - June 2025.



- **Shashwath Prabhu (1MS23IS113), Naomi (1MS23IS074), Pranav M K (1MS23IS092), Abhirama M (1MS24CY002)**, MIT BLR Codeathon: (April 2025), Won 3rd place in a national level inter-college fintech hackathon held at Manipal Institute of Technology.. Built TrustLift, a blockchain-powered peer-to-peer (P2P) lending platform designed to address financial exclusion in underserved communities. It enables secure, transparent microlending without relying on traditional credit scores or banking infrastructure. By leveraging blockchain technology, trust scoring, and multi-channel accessibility (web and WhatsApp), TrustLift provides emergency loans to individuals who need them most.
- **Nabhanyu Bhatmurge (1MS23IS073)**, Google AI Day for Startups Bengaluru: (April 2025). Invited to attend Google AI Day for Startups at Google Ananta, their newest office in Bengaluru interacting with their startups and other Google teams as well as other startup founders and leadership teams from across Bengaluru.He youngest entrepreneur invited to attend.



- **Nabhanyu Bhatmurge (1MS23IS073)**, Selected as AWS Cloud Club Captain: (May 2025) Selected as the very first AWS Cloud Club Captain in Bengaluru and the state of Karnataka to establish the first official AWS Cloud Club at the college. Cloud Captains are selected as an elite cohort of student leaders on campus. among the 87 Captains selected worldwide for Cohort 4.



- **Nabhanyu Bhatmurge (1MS23IS073)**, AWS Summit Bengaluru 2025: (May 2025):Invited to attend AWS Summit Bengaluru 2025 conference alongside 16,000 developers, startup founders and change makers from across India interacting directly with AWS India team including the Sandeep Dutta President of AWS India and more. Also was invited/ interviewed on the AWS Startups Podcast show alongside AWS Startups and international podcast team of AWS.

- **Nabhanyu Bhatmurge (1MS23IS073)**, GOTO Serverless 2025: (August 2025), Attended GOTO Serverless 2025, the first GOTO conference in India (a few popular tech conference around the world),Represented AWS Cloud Club RIT on the main stage with RIT students.,Also got to meet 6 AWS Cloud Club Captains who had travelled from across South India. Gifted the Serverless Development on AWS by the author Sheen Brisals for doing great work leading the student tech community AWS Cloud Club RIT with his signature - a signed copy.



- Team member details: **Naomi Pereira (1MS23IS074)**, **Shashwath Prabhu (1MS23IS113)**, **Basavesh A (1MS23CS037)**, "IBM Mindscape hackathon, Location: BNMIT, Bengaluru, Date: 25th and 26th July, 2nd prize in the theme 'Education Technology and Personalized Learning'.



- **Nihal N Shetty (1MS23IS076)**, 3rd Place - VTU Inter Collegiate State Level Chess Tournament secured 2025.
- **Anvitha Narender (1MS24IS026)**, 823rd RANK in the WAGR ranking, with 1 Win, and had 6 Top-10 finishes, until she turned professional golfer.

DEPARTMENT OF CHEMISTRY

- Faculty Development Program on "**Recent Advances and Innovations in Multi-Disciplinary Composite Materials (RAIMCM-2025)**" organized jointly by the Department of Chemistry and Chemical Engineering, RIT, from 18th – 23rd August 2025. Five online live sessions and 08 offline sessions were conducted during the FDP. The FDP was attended by more than 45 participants, including faculty members and research scholars from different colleges in and around Bangalore.



Industry Interaction:



- '**Second International Conference on Applied Research in Engineering Sciences (ICARES 2025)**' Jointly Organized by the Department of Physics, Chemistry, Mathematics & Humanities, Ramaiah Institute of Technology (MSRIT), Bengaluru on 20th & 21st February 2025.



Publications :

- SP Smrithi, **Nagaraju Kottam**, Bincy Rose Vergis – 'Heteroatom Modified Hybrid Carbon Quantum Dots Derived from Cucurbita pepo for the Visible Light Driven Photocatalytic Dye Degradation', International journal of Topics in Catalysis, Vol. 68(13), 2025/7, Pg. 1427-1438, Q2, Eng.J.
- CR Santhosh, **Sampath Chinnam**, Guddekoppa S Ananthnag, Gbolahan O Oduselu, Kumarappan Chidambaram, Nagaraju Kerru, **Nagaraju Kottam**, GM Madhu – 'Design, synthesis, crystal structure of novel hydrazone analogues as SARS-CoV-2 potent inhibitors: MD simulations, MM-GBSA, docking and

- ADMET studies, International journal of Royal Society Open Science, Vol. 12(7), 2025/7/1, Pg.250373, Q1.
- Prapakorn Tantayotai, Elizabeth Jayex Panakkal, Charoen Trisomboon, Thanyarat Singphrom, Suchata Kirdponpattara, Santi Chuetor, **Nagaraju Kottam** – 'Production of Bioethanol and Aroma Compounds from Pretreated Coffee Shell and Coffee Silverskins with Binary and Ternary Deep Eutectic Solvents', International journal of Sustainable Chemistry for the Environment, 2025/7/13, pg.: 100276, Q2.
 - Shailaja Ananda Kumar, Abhay Bhandarkar, **Nagaraju Kottam** – 'SIMHA: Sustainable Integrated Microbial and Hydrogen Fuel Cell Architecture for BAS', International Conference 2025 IEEE Space, Aerospace and Defence Conference (SPACE), 2025/7/21, Pg. 1-5.
 - 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', International journal of Materials Chemistry and Physics, Vol. 339, 15 July 2025, Pg. 130797, Q1.
 - BR Akshata, PR Deepthi, P Mohankumar, Anu Sukhdev, **Malathi Challa** – 'Optical and luminescence properties of carbon dot-doped sulphamic acid crystals: A potential candidate for LED and display technologies', International journal of Next Materials, Vol. 8, 2025/7/1, Q1, Eng.J
 - Nilophar Majjid Shaikh, Gangadhar B Bagihalli, Pravin Kendrekar, **Malathi Challa** – 'A novel SBA nano-silica immobilised basic ionic liquid catalyst for one pot synthesis of 2-amino-4h-chromene derivatives at room temperature in aqueous media', International journal of Topics in Catalysis, Vol. 68(13), 2025/7, Pg. 1268-1276, Q2, Eng.J.
 - SM Gaddad, MC Bheemaraddi, CT Shivannavar, **Sharanabasappa Patil** – 'Antiphytopathogenic and plant growth promoting attributes of Bacillus strains isolated from rhizospheric soil of chickpea', International Journal of Agricultural Science and Technology, Vol. 17(5), 2025/7/13, Pg. 1365-1377, Q3.
 - **R Hari Krishna**, MN Chandraprabha, GM Mamatha, M Mallappa, Deepa Kundagol, C Manjunatha – 'Non-enzymatic catalytic oxidation of glucose and dual mode sensing by fluorescence/electrochemical methods using MO-GO composites (MO= ZnO, CuO, NiO and Co3O4)', International journal of Topics in Catalysis, Vol.68(13), 2025/7, Pg. 1470-1482, Q2.
 - **K Gurushantha**, BS Surendra, T Kiran, M Bhaskar, S Shashidhar, Swarnalata Swain, KV Brungesh, KM Girish – 'Fabrication of Sustainable ZnCo2O4 Nanoparticle for Electrochemical Sensing of N2H4 and Microbial Applications', International journal of Topics in Catalysis, 2025/7/24, Pg. 1-14, Q2, Eng.J.
 - M Mahadeva Swamy, GK Prashanth, CD Shilpa, AS Sowmyashree, Mallikarjun Chougala, **K Gurushantha**, Mohan Kumar,, - 'Eco-Friendly Synthesis of CuO Nanoparticles Using Plant Extract: Structural, Functional, and Graph Theory-Based Analysis for Advanced Applications', International journal of Chemistry Africa, Vol. 8, July 2025, Pg. 3909-3923, Q3, Eng.J.
 - GR Ashwini, G Vinay, Y Shivaraj, **Nagaraju Kottam** – 'An efficient NiFe2O4/PEG nanocomposite for the selective electrochemical and colorimetric sensing of dopamine', International journal of Advances in Natural Sciences: Nanoscience and Nanotechnology, Vol.16(3), 2025/8/6, Pg. 035015, Q2, Eng.J.
 - J Puneetha, **Nagaraju Kottam**, Shashanka Rajendrachari, S Swarna, Sagar Jalahalli Shivaram – 'Efficient Removal of Crystal Violet Dye Using Visible-Light-Active Mixed Phase Titanium Dioxide Nanoparticles: Synthesis, Degradation Kinetics, and Reusability Assessment', International journal of Topics in Catalysis, 2025/9/22, Pg. 1-25, Q2, Eng.J.
 - Saurabh Bhatia, Talha Shireen Khan, Aysha Salim Alhadhrami, **Sampath Chinnam**, Yasir Abbas Shah, Anil K Philip – 'Development of novel ecofriendly sodium alginate-gelrite gellan gum composite films: Effects of glycerol and sorbitol', International Journal of Vinyl and Additive Technology, Vol. 31(5), 2025/9, Pg. 1218-1232, Q2, Eng.J.
 - Shoab Khan, Tayyiba Iqbal, **Sampath Chinnam**, Eman Alzahrani, Sobhi M Gomha, Magdi EA Zaki, Faez Falah Alshehri, Zafer Saad Al Shehri, Hamdy Kashtoh – 'Synthesis, in vitro and kinetic study of thiazolidinone derivatives: insight from a network medicinal approach for thymidine phosphorylase and alpha glucosidase', International journal of

- Future Medicinal Chemistry, Vol.21, issue-21, Sept. 2025, Pages. 2573-2582, Q3.
- Ranjeet Kumar Mishra, **Sampath Chinnam**, Naveen Dwivedi, Bishnu Acharya – 'Pyrolysis of waste pinewood sawdust using Py-GC-MS: effect of temperature and catalysts on the pyrolytic product composition', International journal of RSC Sustainability, Vol. 3, 2025, Pg. 5314-5325, Q1.
 - Saurabh Bhatia, M. Jawad, **Sampath Chinnam**, A.A. Harrasi, Y.A. Shah, T.S. Khan, E. Koca, L.Y. Aydemir, S. Diblan, D.T. Thekuden, F.M. Alshabrm, Md. Khalid Anwer - 'Origanum majorana essential oil-enriched collagen / K-carrageenan films with enhanced thermal, hydrophobic, anti-oxidant and anti-microbial properties for active packaging', International journal of LWT- Food Science and Technology, Vol.222, 15 April 2025, Pg. 117646, Q1
 - Vinay Gopalappa, Ashwini Gulaganahalli Ramadasaiah, **Nagaraju Kottam**, Shivaraj Yellappa – 'Facile Synthesis of Yttrium-Doped Cadmium Sulfide Nanocrystals for the Simultaneous Electrochemical Sensing of Dopamine, Uric Acid, Xanthine, and Hypoxanthine', International Journal of Analytical Chemistry, Vol. 80(4), 2025/4, Pg. 756-771, Q3
 - H Gujjamma, **K Gurushantha**, S Meena, BS Krishna, G Shobha, S Shashidhar, MR Lokesh, MA Sayed, Mohd Shkir – 'Green synthesis of Eu-doped yttria-stabilized zirconia, characterization, and its applications as photocatalyst and antibacterial activities', International journal of Ionics, 2025/4/10, Pg. 1-16, Q2
 - Atthasit Tawai Roopashree Bangalore Nagesh, **Gurushantha Kariyanna, Nagaraju Kottam**, Ashly Panichithadathil Chandran, Meena Subramaniam, Keshavamurthy Kempaiah, ... - 'S-Scheme ZnO/g-C3N5 Visible Light Active Photocatalyst for Rhodamine B Dye Degradation and Hg Sensing Applications', International journal of Applied science and engineering progress, Vol. 18(4), 2025/4/5, Pg. 7783, Q2.
 - AVSL Sai Bharadwaj, Ripsa Rani Nayak, J Koteswararao, **Sampath Chinnam**, Baburao Gaddala, Bharat Govind Pawar, Navneet Kumar Gupta – 'Environmental Life-Cycle Assessment and Green Principles in Process Intensification: A Review of Novel Catalysts from Solid Waste', International journal of Chemical Engineering and Processing-Process Intensification, Vol. 211, May 2025, Pg. 110208, Eng. J, Q1.
 - 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', International journal of Materials Chemistry and Physics, Vol. 339, 15 July 2025, Pg. 130797, Q1
 - **Basappa C Yallur**, Madhuri P Rao, M Harshitha, Deepa Basrur, Prabhu H Umesh, Vinuta Kamat, KD Venu Prasad, Katharigatta N Venugopala, Ramesh S Bhat – 'Recent Advances in Graphene-Based Metal Oxide Composites for Supercapacitors: A Comprehensive Review', International journal of Advanced Sustainable Systems, 2025/5/3, Pg. 2500121, Q1
 - Sravanthi Veluturla, **Nagaraju Kottam**, Laila Nafisa, Mrinalini Ramesh, Hana Fathima Irshad, Anagha Kumar Margasahayam - 'Optimization of levulinic acid esterification via surface response methodology using single metal oxide nanoparticle as heterogeneous catalyst', International journal of Chemical Engineering Communications, Vol. 212(6), 2025/6/3, Pg. 894-905, Q2
 - KM Girish, R Lavanya, N Sowmyshree, Kushi D Jain, **K Gurushantha**, K Ramakrihanppa – 'Preparation and Electrochemical Properties of Co3O4 as Potential Electrode materials for Supercapacitor and Battery applications', International journal of Future Batteries, Vol. 6, June 2025, Pg. 100071.
 - Mahesha K Maliyappa M. R., **Murali Krishna P.** – 'Synthesis, characterization, and biological potency of nano sized chlorobenzothiazole incorporated with pyrazole based transition metal(II) complexes', International Journal of Coordination Chemistry, 2025/6/17, Pg. 1-24. Q3
 - Prakash Monika, **R Hari Krishna**, Anirudh Bantwal Baliga, K Ravisagar, Rupam Sinha Roy, KC Lalitha, S Girish Kumar - 'Unveiling new frontiers in advancements of metal oxides nanoparticles (ZnO, TiO2, CuO and Ag2O) and their hybrids for antibacterial applications: A Review on mechanistic', International journal of Hybrid Advances, 2025/6/28, Pg. 100522, Q2

Patents:

- **Name of the Inventor:** Santhosh CR, Madhu GM, Ananthnag GS, Oduselu GO, **Sampath Chinnam, Nagaraju Kottam, Chidambaram K, Nagaraju K;** **Title of the Patent** – 'A system for synthesizing novel chalcone analogs as SARS-CoV-2 main protease inhibitors', **German Patent:** DE, Publication Date: 2025/2/17, Patent No.: 202025100532.
- **Name of the Inventor:** Abhay B, **Nagaraju Kottam, GM Madhu, Sampath Chinnam, Shailaja A.K;** **Title of the Patent** – 'Sustainable integrated microbial and hydrogen fuel cell architecture for space applications', **Indian Patent:** IN, Publication Date: 2025/3/7, Patent No.: 202541017133 A
- **Title of the German grant patent:** System for detecting microbial contamination in food processing systems; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, GH Suliman, F Arhsad, **Sampath Chinnam....**, German (DE) Patent: 202,025,101,585, Publication Date: 2025/4/11
- **Title of the German grant patent:** Device for the rapid identification of antibiotic resistance genes in microbial isolates; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, RK Mishra, M Samy, **Sampath Chinnam....**, German (DE) Patent 202,025,101,587, Publication Date: 2025/4/9
- **Title of the German grant patent:** Apparatus for enhanced microbial culture growth; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, RK Mishra, M Samy, **Sampath Chinnam....**; German (DE) Patent 202,025,101,586, Publication Date: 2025/4/8
- **Title of the German grant patent:** A system for molecular characterization and toxoid vaccine development of clostridium perfringens; **Name of the Inventor:** K.S. Bahadar, A. Abid, I. Muhammad, K. Ajmal, A.H. Ahmed, **Sampath Chinnam, A.S. Halim, U. Jalal, K.S. Ftayes, A.M. Moahammed, Saurabh Bhatia, German (DE) Patent: 202025100800, Publication Date: 2025/3/19.**
- **Title of the German grant patent:** A system for bio-fabrication of silver nanoparticles using therapeutic lichen (*Rusavskia elegans*) for control of hyperglycemic effect of diabetes; **Inventor Name:** H. Nusrat, A. Sajid, K. Ajmal, A. H. Ahmed, **Sampath Chinnam, H. Javid, A. M. Hassan, A. Tariq, M. Hyder, Z. Mohammad, K. Asaad, Saurabh Bhatia, German (DE) Patent: 202025100801, Publication Date: 2025/3/17.**
- **Title of the Patent:** Polymer Composite Material For Electromagnetic Interference (EMI) Shielding And A Process For Its Preparation, Name of the Inventor: Mahesh Mamatha Gowdaru, Pradipkumar Dixit, **R Hari Krishna**, Indian Patent, **Published:** 20541100291, Publication Date: 28/11/2025.
- **Title of the Patent:** Sustainable Polymer Composite For Electromagnetic Interference (EMI) Shielding And A Process For Its Preparation, Inventor Name: Mahesh Mamatha Gowdaru, Pradipkumar Dixit, **R Hari Krishna**, Indian Patent, **Published:** 20541100291, Publication Date: 28/11/2025.
- **Title of the Patent:** Biodegradable Composite Material For Electromagnetic Interference (EMI) Shielding And A Process For Its Preparation, Inventor Name: Mahesh Mamatha Gowdaru, Pradipkumar Dixit, **R Hari Krishna, Harichandra B P**, Indian Patent, **Published:** 20541100859, Publication Date: 28/11/2025.
- **Title of the Patent:** A substrate for a Microstrip Antena and a process for its preparation, Inventor Name: Mahesh Mamatha Gowdaru, Pradipkumar Dixit, **R Hari Krishna, Naik Vaishnav Venkatesh, Kumar Kiran, Rao Mayur Narayana, M G Akasha**, Indian Patent, **Published:** 20541119950, Publication Date: 01/12/2025
- **Name of the Inventor:** Santhosh CR, Madhu GM, Ananthnag GS, Oduselu GO, **Sampath Chinnam, Nagaraju Kottam, Chidambaram K, Nagaraju K;** **Title of the Patent** – 'A system for synthesizing novel chalcone analogs as SARS-CoV-2 main protease inhibitors', **German Patent:** DE, Publication Date: 2025/2/17, Patent No.: 202025100532.
- **Name of the Inventor:** Abhay B, **Nagaraju Kottam, GM Madhu, Sampath Chinnam, Shailaja A.K;** **Title of the Patent** – 'Sustainable integrated microbial and hydrogen fuel cell architecture for space applications', Indian Patent: IN, Publication Date: 2025/3/7, Patent No.: 202541017133 A
- **Title of the German grant patent:** System for detecting microbial contamination in food processing

- systems; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, GH Suliman, F Arhsad, ..., **Sampath Chinnam**, German(DE) Patent: 202,025,101,585, Publication Date: 2025/4/11.
- **Title of the German grant patent:** Device for the rapid identification of antibiotic resistance genes in microbial isolates; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, RK Mishra, M Samy, ...**Sampath Chinnam**, German (DE) Patent 202,025,101,587, Publication Date: 2025/4/9.
 - **Title of the German grant patent:** Apparatus for enhanced microbial culture growth; **Name of the Inventor:** AS Selim, AJS Khalil, AM Saad, AM Hamed, RK Mishra, M Samy, ...,**Sampath Chinnam**, German (DE) Patent 202,025,101,586, Publication Date: 2025/4/8.
 - **Title of the German grant patent:** A system for molecular characterization and toxoid vaccine development of clostridium perfringens; Name of the Inventor: K.S. Bahadar, A. Abid, I. Muhammad, K. Ajmal, A.H. Ahmed, **Sampath Chinnam**, A.S. Halim, U. Jalal, K.S. Ftayes, A.M. Moahammed, Saurabh Bhatia, German (DE) Patent: 202025100800, Publication Date: 2025/3/19.
 - **Title of the German grant patent:** A system for bio-fabrication of silver nanoparticles using therapeutic lichen (*Rusavskia elegans*) for control of hyperglycemic effect of diabetes; **Inventor Name:** H. Nusrat, A. Sajid, K. Ajmal, A. H. Ahmed, **Sampath Chinnam**, H. Javid, A. M. Hassan, A. Tariq, M. Hyder, Z. Mohammad, K. Asaad, Saurabh Bhatia, German (DE) Patent: 202025100801, Publication Date: 2025/3/17.

Book Chapter:

- Kora Ramya Reddy, Kavitha Prasad, **Nagaraju Kottam**, SP Smrithi, G Prashanth – ‘Evaluation of Antimicrobial Property of Natural C-Dots’, Book Chapter, Advances in Materials Science and Technology, 2025, Pg. 224-231, CRC Press.
- Kalpana Tilak, **Sampath Chinnam**, Ashish Kumar Pathak, Shikha Devi, GholamReza Abdi, Vishal Ahuja – ‘Algae and Aquatic Plants: Energy from the Wastewater’, Book Chapter, The Principles of Green Energy & Technology: Basic Concepts to Applications, 2025/10/22, Pg. 240, CRC Press.

- **Sharanabasappa B Patil**, Vaibhavi Nair – ‘Biological and Medicinal Significance of Ziziphus Jujuba: A Traditional Herb’, Book Chapter, Advances in Chemistry Research, 2025, James C Taylor.

DEPARTMENT OF MATHEMATICS

- Conducted Guest Lecture on Some Beautiful Formulae of Ramanujan and Their Recent Developments by Dr. Bibekananda Maji, Associate Professor, Department of Mathematics, IIT Indore on Thursday, 05.06.2025.

Publications in (National / International) Journals:

- **Vijaya Kumar et.al.:** Two Component Darcy-Benard-Marangoni convection in a Composite Layer with Salinity Gradients and Variable Heat sources, South Asian Review, Vol. 4, Issue No. 2, Pg. No. 229-239, Jun 2025 (Q1)
- **Vijaya Kumar et.al.:** Temperature gradient and heat source/sink impacts on triple-diffusive surface-tension-driven convection, case Studies in Thermal Engineering, Vol. 73, 1-22, June 2025 (Q1)
- **Dr. S. Ramprasad :** Boundary Layer Convective Flow in a Divergent Channel With Melting Heat Transfer and Mass Suction/Injection: An Analysis Using ANN and Numerical Methods, Heat Transfer, Vol. 54 (5), Pg. 3405-3417, Apr 2025

DEPARTMENT OF PHYSICS

Faculty Development Programme

- Five days Faculty development programme on Quantum Frontiers: Materials, Modelling & Computing was jointly organised by Department of Physics and Department of Artificial Intelligence & Data Sciences in association with Quantum Cluster & QPiAI from 8-12 September 2025. The event was inaugurated by the Chief guest **Prof. Reji Philip, Ex-RRI & Principal, Gitam School of Sciences, Bengaluru** motivated the participants with his inspiring words. The five days event consisted of one Keynote Address, 12 Invited talks, 2 Hands on session & Industry visit – QpiAI, Bengaluru.



Guest Lecture

- A one-day guest lecture + demo session on QNIVERSE-A Quantum Computing platform was organised by Department of Physics on 10.10.2025. **Dr. Naresh Raghava and Dr. Harishankar from C-DAC Bengaluru** were the resource persons who gave an overview of Qniverse's capabilities, use cases and future directions towards development and deployment of quantum applications in fields ranging from cryptography to artificial intelligence.

Publications in (National/International) Journals

- **Sherry Shajan Kuttukaran, MR Ambika, C Siddaraju, N Nagaiah, BP Srilakshmi, Yeshwanth H Reddy, Parul Goel, Sanjeev Kimothi, Debabrata Ganguly, Santanu Chattopadhyay, S Roopa**, 'Fabrication and investigation of a novel bi-layered, silicone rubber-based composite as a promising radiation shield' Journal of Radioanalytical and Nuclear Chemistry, Vol. 334 (2025) 7459-7471.
- **Yeshwanth H Reddy, M R Ambika**, Hemalatha Krishna Naik, BM Basavaraja, N Nagaiah-An overview on MXene/rare earth and transition metal oxide hybrid composites for supercapacitor applications, Ionics, Vol 31 (2025) 5329-5349.
- DN Deepika, **M R Ambika**, MB Karthik Kumar, J Alsufyani Sultan, Bradley DA, N Karunakara, N Nagaiah-Radiological assessment of radium and dissolved radon in groundwater near the Manchanabele reservoir, Bengaluru, India, Radiation Physics and Chemistry, Vol. 233 (2025) 112735.

Funded Projects

- **Dr. Sandhya K L** – 'Liquid crystal as matrices for nanomaterial assembly-manipulation' Science and Engineering Research Board (SERB) (Ongoing) Grant: Rs. 29.52 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 (Ongoing) 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 (Ongoing). Grant: 5.5 lakhs.

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

- **Dr. Ambika M R** has been awarded **INSA Visiting Scientist Award - 2025**

DEPARTMENT OF MEDICAL ELECTRONIC ENGINEERING

Publications in National / International Journals:

International Journals:

- C K Narayanappa, et al., "The Role of Health Policy in Expanding Access to Early Cancer Detection Technologies" , Journal of Carcinogenesis, Vol. 24, pp. 658-668, August 2025
- C K Narayanappa, et al., "Nonlinear dynamics and chaos theory in engineering with applications in control systems and signal analysis", Journal of Interdisciplinary Mathematics, Vol. 28, pp. 2099–2108, August 2025

Conferences:

- Prathibha T P et al, "A Comparative Analysis of Static and Dynamic Thermal Imaging in Breast Cancer Screening", 2025 International Conference on Electronics, Computing, Communication and Control Technology (ICECCC), Bengaluru, India, July 2025

DEPARTMENT OF HUMANITIES

Publications in (National / International) Journals:

- **Kanyakumari, S.** Ankana Barahagalalli Sahitya-Samajika Spandanegalu (ಅಂಕಣ ಬರಹಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ-

ಸಾಢಾಜಕ ಸ್ವಂದನೆಗಲ). Kannada Pustakagalu – Ittichina Swadinagalu Patrike, Vol. 92, Issue 3, March–April 2025, pp. 36–52. ISSN: 1706-9416.

- **Mrs. Kanyakumari. S** - "Pratibha Nandakumar, Barahagalalli Stree Samvedane", International Journal of Kannada Research, Vol. 11 (2025), pp90–95. ISSN: 2454-5813.
- **Dr. Udayakumar H.M.** and others - "The design patent entitled 'Artificial Intelligence-Assisted English Grammar Correction and Style Recommendation System' was registered by the Patent Office, Government of India, on April 20th, 2025, under Design No. 455962-001.

Achievements, Awards/Prizes by Faculty/Staff/Students:

- **"The Nada Prabhu Kempegowda State Award 2025"** has been confirmed by the Karnataka State Okkaliga Hita Rakshana Parishath in recognition of contributions to education, research, and societal development through support for the underprivileged on 30th May 2025.
- **"Inspiring Education Hero Award-2025"** honoured to be invited as a **Distinguished Speaker** and to be recognized as an **Inspiring Education Hero** during the Awards Ceremony at the Education Growth Network (EGN) Higher Education Southern India Conclave 2025, held in the vibrant city of Kochi, Kerala, on 28th June 2025.

DEPARTMENT OF MANAGEMENT STUDIES

Publications in (National /International) Journals:

- **Dr. T. Mohansundaram** – "Advancing Sustainable Engineering Practices: An Extension of MOA Theory on Consumer Intentions to Adopt Sustainable and Green Building Materials", International Journal of Sustainable Engineering, Vol. 18, No. 1, May 2025.
- **Dr. Arun Kumar D. C.** – "Institutional Economics of Tourism Safety and Security: Insights from Tourists and Industry Operators", International Journal of Innovative Research and Scientific Studies, Vol. 8(2), 2025, pp. 2187–2199. ISSN: 2617-6548.

Guest Lectures Invited:

- **Mr. Himansu Barola**, Entrepreneur, Everything Recycles – delivered a session on "Raising Capital and Managing Finance for Startups" on 10 May 2025.
- **Mr. Ray Vincent**, Founding Member and Certified John Maxwell Team Coach – spoke on "Becoming a Person of Influence" on 16 May 2025.
- **Mr. Prakash Nimbalkar**, Startup Mentor & Advisor – delivered a session on "Business Model Canvas" on 17 May 2025.
- **Mr. M. Bhimsen**, Director, Edu-Pie Global – conducted a session on "Communication Skills and Presentation Skills" on 22 May 2025.
- **Dr. Rajdeep Manwani**, TEDx Speaker and Motivational Speaker – presented a talk on "Igniting the Leader Within" on 23 May 2025.
- **Mr. Rajesh Raju**, Managing Director, Kalaari Capital – delivered a talk on "Random Walk: Life, Career and Technology" on 28 May 2025.
- **Sri Srinath Sethuraman**, International Trainer, conducted a session on "Interpersonal Skills" on 30 May 2025.
- **Mr. Sandeep K. R.**, Product Manager, Nielsen – delivered a session on "Modern-Day Product Management in the IT Industry" on 27 June 2025.

Achievements, Awards/Prizes by Faculty/Staff/Students:

Faculty achievements:

- **Dr. Deepak R.** completed a three-credit course titled "From Theory to Practice: Implementing ESG and Sustainability in Business," securing a score of 78.0%, offered by the Indian Institute of Management, Bangalore.

Students achievements:

- **Animeeth Ghosh** has published a paper titled "Empowering Safer Gaming Experiences in the Indian Online Gaming Industry: Tech-based Solutions for Trust, Transparency and Responsible Gaming", Vol. 14, Issue 5, May 2025.
- **Chinmay Ningaraj Ammanagi** won 1st Place in the Inter Collegiate State Level Tournament at Maharaja

Institute of Technology, Thandavapura from 28-04-2025 to 01-05-2025.

- **Dhaneshwari Suresh Khavaspur** won 1st Prize in the Chess event at RIT, Bangalore, on June 11, 2025.

PLACEMENT & TRAINING

The Main Highlights - 2025 and 2026 batch (ongoing)

Number of companies: 219 Companies

Total Number of Offers: 1275 offers

- **Highest Stipend:**
Morgan Stanley:
Stipend: 87,000/- per month
8 Students selected from CSE-2, ISE-3, CSE(CY)-1, AIDS-1, AIML-1
- Microsoft:
Stipend: 1,25,000/- per month
2 Students selected from CSE & ISE
- **Highest CTC:**
D.E. Shaw India:
CTC: 58.30 LPA
2 Students selected from CSE(AIML) & AIML
- Microsoft:
CTC: 51 LPA
2 Students selected from CSE & ISE
- **International Placement:**
Sobha Construction: 5000 AED / month), Dubai,
2 Students selected from Civil

International Placement (Japan):

- Dai-Ichi Dentsu Ltd:
CTC: JPY 6,416,640
1 Student selected from Mechanical
- Hitachi Plant Construction Ltd:
CTC: JPY 6,735,000
1 Student selected from Mechanical

DEPARTMENT OF SPORTS



- **CHAMPIONS** - in All India Inter Collegiate Cricket Championships held at IIT Bombay held from 8th to 11th May 2025.



- Hon'ble Chairman GEF Dr. M R Seetharam Sir wishes the Cricket Team for Winning the VTU State Level Cricket Tournament for the year 2024-25



- Hon'ble Director RIT Sri. M R Kodandaram Sir wishes the Cricket Team for Winning the VTU State Level Cricket Tournament for the year 2024-25



- WINNERS - VTU Bangalore Central Division Cricket Tournament held at East Point College of Engineering, Bangalore from 24th March to 2nd April 2025.



- WINNERS - VTU State Level Cricket Tournament held at Maharaja Institute of Technology, Mysore from 28th April to 2nd May 2025.

BASKETBALL:



- Hon'ble Chairman GEF Dr. M R Seetharam Sir wishes the Basketball Team for Winning 14 Inter College Basketball Tournament for the year 2024-25



- Hon'ble Director RIT Sri. M R Kodandaram Sir wishes the Basketball Team for Winning 14 Inter College Basketball Tournament for the year 2024-25



- WINNERS: Inter Collegiate Basketball Tournament, held at St. Francis College, B'lore on 8th & 9th April 2025



- WINNERS: in Open State Level Basketball Tournament held at NIE, Mysore on 19th & 20th April 2025. Our Basketball Team Won 14th Tournament in the Academic year 2024-25.

TAEKWONDO:



- Mr. Kanchesh D S of 2nd Semester ETE Secured Gold Medal in Under 87 KG Category in VTU State Level Taekwondo Competition held at BIT, Bangalore on 16th April 2025.

FOOTBALL:



- WINNERS - VTU Bangalore Central Division Football Tournament organized by MSRIT on 2nd & 3rd April 2025.



- 3rd RUNNER UP - VTU State Level Football Tournament held at BITM, Bellary on 5th & 6th April 2025.



- RUNNERS – in Open Inter College Football Tournament, org., by College Sports of India on 19th & 20th April 2025.

Organization of VTU Tournaments:

Organized VTU Bangalore Central Division Football [Men] Tournament:



- WINNERS - MSRIT



- RUNNERS - MSRIT



- We have organized VTU Bangalore Central Division Football [Men] Tournament on 2nd & 3rd April 2025 in Ramaiah Sports ground. Dr. NVR Naidu, Principal, RIT, Inaugurated the tournament and the tournament witnessed by Dr. Pradip Kumar Dixit, Vice-Principal, RIT. Around 14 Colleges from Bangalore Central Division have been participated in the tournament.

SPORTS ACHIEVERS DAY CEREMONY – (11th JUNE 2025)

- Sports Achievers Day Ceremony held on 11th June 2025 at ESB Seminar Hall Big at 3.30 PM. Dr. Ashish Kumar Ballal, Arjuna Awardee, Ekalavya Awardee & Kempegowda Awardee, Olympian, World Cup & Asian Games Gold Medalist, Former Indian Hockey Team Captain was the Chief Guest of the programme. Sri M R Kodandaram, Director RIT Presided the function. The program witnessed by Dr. Parsvanath H V, Chief Executive, GEF, Sri. Karisiddappa, Chief Academic Advisor, GEF, Sri. G Ramachandra, Chief of Finance, GEF, Dr. NVR Naidu Sir, Principal, RIT and Dr. N L Ramesh, Vice-Chairman, Sports Committee. Rs. 6 Lakhs amount has been given to all the Sports Achievers and also felicitated India / State / VTU representatives. The prizes will be given for all the Winners & Runners of Inter Branch Competition and Inter Department Staff Competitions.



VTU ACHIEVEMENTS:

BADMINTON - MEN



- WINNERS – Secured Winners Trophy in VTU Bangalore Central Division Badminton Tournament held at Cambridge IT, Bangalore on 8th & 9th September 2025

BADMINTON - WOMEN



- WINNERS – Secured Winners Trophy in VTU Bangalore Central Division Badminton Tournament held at Cambridge IT, Bangalore on 8th & 9th September 2025

BADMINTON - MEN



- WINNERS – in VTU State Level BADMINTON Tournament 2024-25 held at PESCE, Mandya on 11th & 12th September 2025

BADMINTON - WOMEN



- RUNNERS – Secured Runners Trophy in VTU State Level BADMINTON Tournament 2024-25 held at PESCE, Mandya on 11th & 12th Sept. 2025.

TABLE TENNIS - WOMEN



- RUNNERS – Secured Runners Trophy in VTU Bangalore Central Division Badminton Tournament held at BMSCE, Bangalore on 16th Sept. 2025.

SWIMMING



- Jatin B of VII Semester MEE, Secured 6 gold, 4 silver & 1 Bronze Medal in VTU State Level Swimming Competition, held on 24th September 2025. Organized by our College in Basavanagudi Aquatic Centre.



- Aniket Bhat of I Semester ECE Secured 4 Gold, 4 Silver & 1 Bronze Medal in VTU State Level Swimming Competition, held on 24th September 2025. Organized by our College in Basavanagudi Aquatic Centre.



- Meghanjali of III Semester Medical Electronics Secured 3 Silver Medal in VTU State Level Swimming Competition, held on 24th September 2025. Organized by our College in Basavanagudi Aquatic Centre.



- College Relay Team Secured Gold Medal in 4x100 Individual Medley Relay & 4x100 Free Style Relay Events in VTU State Level Swimming Competition, held on 24th September 2025. Organized by our College in Basavanagudi Aquatic Centre.



- College Men Swimming Team Secured Men Championship Trophy by Securing 75 points in VTU State Level Swimming Competition, held on 24th September 2025. Organized by our College in Basavanagudi Aquatic Centre.

CHESS [Men & Women]



- College Chess Men Team Secured Runners Trophy and Girls Secured Sixth Position in VTU State Level Chess Tournament held at SAI Ram College of Engineering held from 25th to 27th September 2025.
- College Chess Men Team Secured Runners Trophy and Girls Secured Sixth Position in VTU State Level Chess Tournament held at SAI Ram College of Engineering held from 25th to 27th September 2025.

Organization of VTU Tournaments:

SWIMMING:

- Organized VTU State Level Swimming (Men & Women) Competition on 24th September 2025 in Basavanagudi Aquatic Centre. Mr. Akash Rohit, former Swimmer and Alumni of MSRIT was the Chief Guest of the program. Around 65 Colleges from all over Karnataka has been participated in the Swimming competition.



NEW APPOINTMENTS

Department of Aerospace Engineering



Dr. Senthamilselvi A is currently working in the Department of Aerospace Engineering, RIT as Assistant Professor. She completed her undergraduate studies in Aeronautical Engineering from Anna University

Trichy. Subsequently, she completed her Masters and PhD in Aeronautical Engineering from Hindustan University and Anna University Chennai, respectively. She has over 10 years of work experience in Academia and 2 years of Industry experience as an Aero-Structural Analyst. Dr. Senthamilselvi's expertise lies in structural analysis, composite materials, and aircraft maintenance planning. She has published several peer-reviewed papers on aerospace structural technologies and tribological studies, presented her work in international forums, and contributed to academic leadership roles including research coordination and accreditation activities.



Dr. Radhakrishnan P M is currently serving in the Department of Aerospace Engineering, RIT. He earned his undergraduate degree in Aeronautical Engineering from Anna University, Chennai,

followed by a Master's and Ph.D. in Aeronautical Engineering from Hindustan University, Chennai. He has over six years of work experience in Academia and DRDO. His research is primarily focuses on fatigue and fracture mechanics of composite materials. He has authored and co-authored several research papers in reputed peer-reviewed journals and has actively presented his work at several international conferences.

Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) (Cyber Security)



Vishalakshi Prabhu H, 19 Years Experience, Joined as Associate Professor in the Department of CSE (AI & ML) and CSE (Cyber Security) of Ramaiah Institute of Technology. Her research interest includes Algorithms Design,

Generative AI, Wireless Networks and Information Security.



Dr. Sahana Lokesh R, 16 years of Experience, Joined as Associate Professor in the Department of CSE(AI&ML) and CSE (Cyber Security) of Ramaiah Institute of Technology. Her area of interest includes Machine Learning, Privacy Preserving Data Publishing in Cloud and Cyber security.



Dr. Naveen N C, 28 Years of Experience, Joined as a professor in the Department of CSE (AI & ML) and CSE (Cyber Security) of Ramaiah Institute of Technology. His research areas of interest include Machine Learning Algorithms, Data Science and Big Data Analytics.



Dr. Nayana G.Bhat, 19+ Years of Experience, Joined as Associate Professor in the Department of CSE (AI & ML) and CSE (Cyber Security) of Ramaiah Institute of Technology. Her research areas of interest include Bioinformatics, Internet of Things, and Natural Language Processing.



Dr. Hemavati, 15+ Years of Experience, Joined as Associate Professor in the Department of CSE (AI & ML) and CSE (Cyber Security) of Ramaiah Institute of Technology. Her research areas of interest include Pattern Recognition, Machine Learning, Natural Language Processing.

Department of Electronics & Communication Engineering



Dr. Parameshwara M. C. is working as Associate Professor. He earned his B.E. (1999) from Bangalore University, M.Tech (2007) from BMSCE, VTU, and Ph.D. (2018) from VTU, Belagavi. With over 21 years of teaching experience, his expertise spans Low Power and Mixed-Mode VLSI, Approximate, and Quantum Computing. He has published 34 research papers in reputed national and international journals and conferences, serves as a reviewer for several esteemed journals, and currently guides five Ph.D. scholars under VTU, with two successfully awarded.



Shruthi. K is working as an Assistant Professor Designate in the Department of ECE, MSRIT, Bangalore. She completed her PhD from IIT Dharwad in Computer Architecture and Embedded systems. She has around 12 years of teaching experience. Her research interests include computer architecture, embedded systems, biomedical instrumentation, education technology etc.

Department of Chemical Engineering



Dr. Alex Koshy, Assistant Professor, Joined: August 1, 2025 B.Tech., Chemical Engineering, Calicut University, M.Tech., Chemical Engineering, NIT Raipur Ph.D., Chemical Engineering, IIT Kharagpur Specialization: Multiphase flow in confined geometries. Experience: Temporary Faculty, NIT Raipur – 9 months, Research Fellow, IIT Kharagpur – 7 months, Subjects handled in MSRIT: Drug Delivery Systems, Momentum Transfer, Simulation Lab-II (Practical).

Department of Medical Electronic Engineering



Dr. Rhittwikraj Moudgolya joined the Department of Medical Electronics Engineering, Ramaiah Institute of Technology in August 2025. He completed his Ph.D. in Computer Vision from NIT Silchar in 2022, M.Tech in Bioelectronics from Tezpur Central University, Assam in 2014, and B.Tech in 2010. With over 7 years of teaching and 2 years of industry experience, his research focuses on Computer Vision, Signal and Image Processing, and Instrumentation System Design etc.

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