

**RAMCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2025-2026**

FACULTY AWARDS, ACHIEVEMENTS AND HONOURS RECEIVED

GUEST LECTURE DELIVERED

- Dr. R. Arun Kumar, AP-III / Mech delivered his expertise for the session titled "**Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs**" organized by the Institution's Innovation Council of Solamalai College of Engineering, Madurai on 24 July, 2025. More than 80 students attended the session and benefited.



- Dr. R. Arun Kumar, AP-III / Mech served as a resource person for the Faculty Development Programme titled "**Workshop on Innovation, Start-up Ecosystem, IPR & Tech Transfer**" organized by District Administration, Virudhunagar and Start-up TN, Madurai region on 06 Aug., 2025 at Collectorate, Virudhunagar district.



- Dr.G.Prabu ram, ASP (I) / MECH, has delivered a lecture on "**Introduction to IPR, EDC and IIC** " for the first year students on 23 Aug., 2025.
- Dr. R. Arun Kumar, AP-III/Mech, gave a guest lecture at V.V.Vanniaperumal College for Women, Virudhunagar, for the Faculty Development Program titled "**Ideas to Assets: An Introduction to IPR**" on 30 Aug., 2025. 60+ faculty members attended the session.



- Mr. M. Ramar, AP-III/Mech, gave a guest lecture at PACR Polytechnic College, Rajapalayam, for the workshop on Recent Advancements in Mechanical Engineering. The lecture on the topic is "**Industrial Automation with Simulation**" on 03 Sep., 2025. 60+ Students & faculty members attended the session.



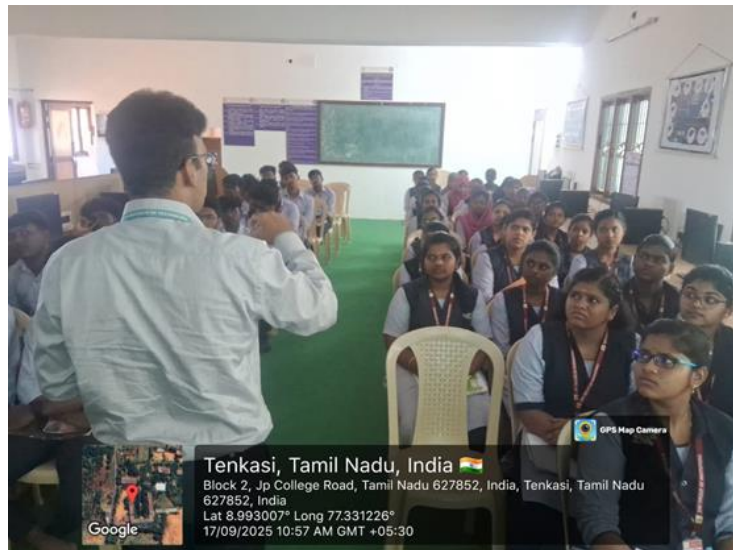
- Mr. M. Ashok Kumar, AP-III/Mech, gave a guest lecture at PACR Polytechnic College, Rajapalayam, for the workshop on Recent Advancements in Mechanical Engineering.

The lecture on the topic is "**Electrifying the Roads: EV Technology for the Next Generation**" on 03 Sep., 2025. 60+ Students & faculty members attended the session.

- Mr. S. Valai Ganesh, AP(SG)/Mech delivered a guest lecture on "**Signal Conditioning Circuits and PLC**" for the IV Mechanical students at JP College of Engineering, Tenkasi on 12 Sep., 2025.



- Dr. R. Arun Kumar, AP-III/Mech served as the resource person for the "**FDP on Patent Drafting**" and Workshop on "**Role of IPR for Innovators and Entrepreneurs**" organized by J. P. College of Engineering, Tenkasi on 17 Sep., 2025.



- Dr. R Arun Kumar, AP-III/Mech shared his expertise during a workshop on “**IP Rights**” organized by A. K. D. Dharma Raja Women's College for the faculty members and PG students on 18 Sep., 2025.



- Dr. R. Arun Kumar, AP-III/Mech, shared his views about the "**Role of IP Rights in Start-ups**" during one day state-level conference on "**From Ideas to valuation: Leveraging IPR for Start-up Growth**" organized by Rajapalayam Raju's College, held on 23 Sep., 2025.



- Mr. C. Gururaj, AP(SG)/Mech, acted as a resource person in "**A National Level Five-Day STTP on Empower 360: Skill Enhancement for Technical Staff**" organised by the Department of Electronics and Communication Engineering, Ramco Institute of Technology, Rajapalayam on 18 Dec., 2025.



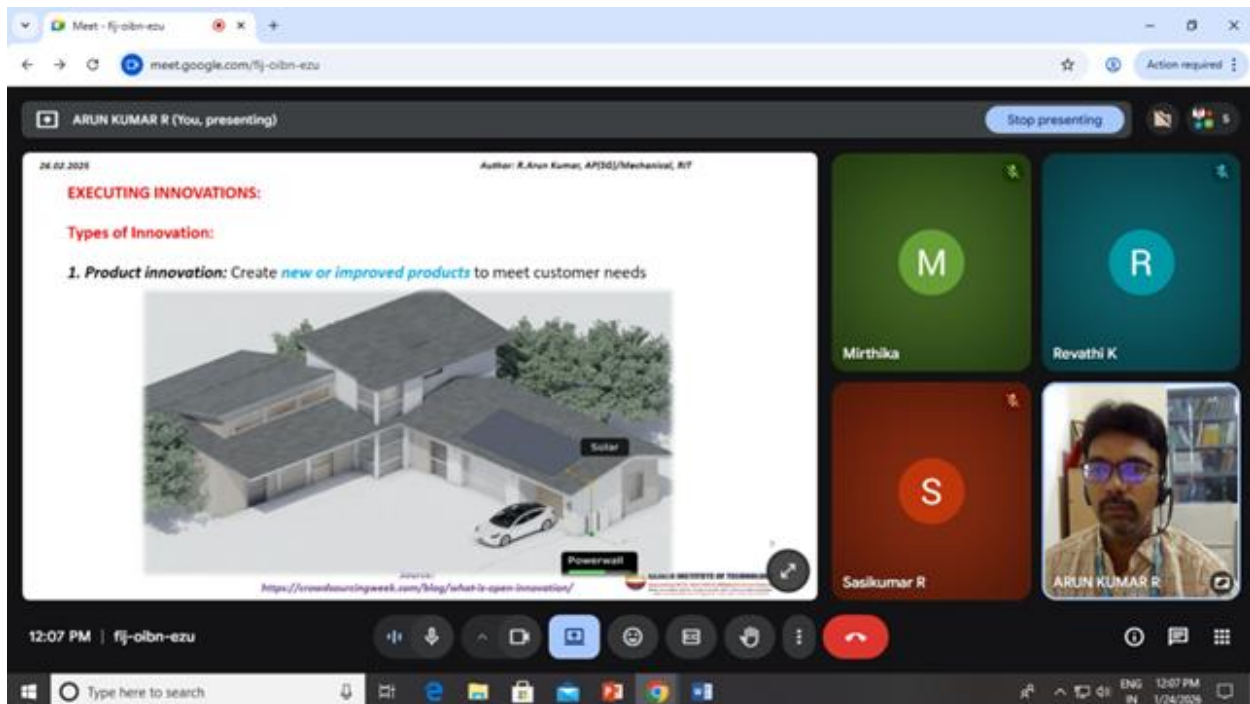
- Dr. R. Arun Kumar, AP-III/Mech served as a resource person for the "**One-Day Short-Term Training Programme (STTP) on IPR: An Awareness and Practice**" organized by SRNM College, Sattur on 23 Dec., 2025.



- Dr. S. Rajakarunakaran, Prof.&Head/Mech served as a resource person for the "**Three-Day Workshop on Navigating NBA SAR Revision**" organized by PSR Engineering College, Sivakasi on 03 Jan., 2026.



- Dr. R. Arun Kumar, AP-III / Mech delivered his expertise during the Online session titled **"Think - Design - Innovate: An Online Design Thinking Workshop"** organized by Department of Computer Science and Engineering, K.Ramakrishnan College of Engineering, Trichy held on 24 Jan., 2026.



- Dr. R. Arun Kumar, AP-III/Mech, shared his expertise during the **"One-day Faculty Development Programme on IPR: From Research to Commercialization"** organized by Research Innovation and Entrepreneurship Cell of Solamalai College of Engineering in association with Madurai Infrastructure Development on 31 Jan., 2026. More than 30 faculty members from various engineering departments of Solamalai College of Engineering attended the programme.



- Dr. V. Sivakumar, Prof. / Mech served as a resource person for the Faculty Development Programme titled "**Higher Education Pathways for Polytechnic College Teachers**" organized by P.A.C. Ramasamy Raja Polytechnic College, Rajapalayam on 09 Mar., 2026.



- Dr. S. Maharajan, ASP-I/Mech delivered a guest lecture on "**Mathematical concepts in deflection of beam in Strength of Materials course**" at JP College of Engineering, Tenkasi on 17 Mar., 2026.

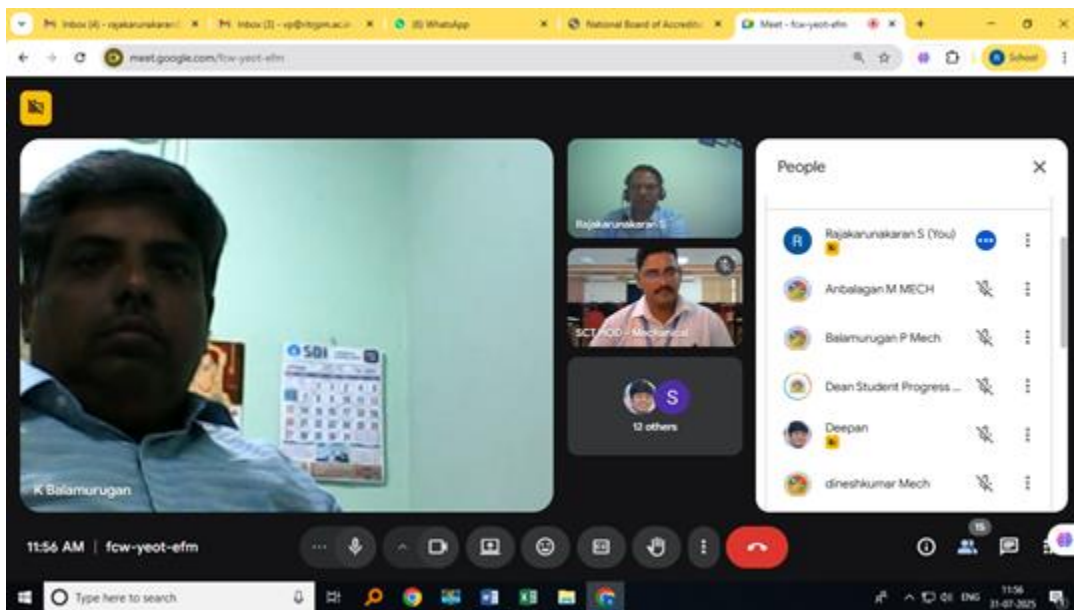


- Mr. S. Valai Ganesh, AP(SG)/Mech delivered a guest lecture on “**Exploring the Role of Robotics and Automation in Engineering**” at Francis Xavier Engineering College, Tirunelveli on 25 Mar., 2026.



CHIEF GUEST

Dr. S. Rajakarunakaran, Prof.&Head/Mech attended “**BoS Meeting of Mechanical Engineering Board an Expert member**” at Selvam College of Technology, Nammakal on 31 July, 2025.



Mr. S. Valai Ganesh, AP(SG)/Mech invited as a Jury Member for the “**PACR Hackathon 2025**” for ATL students at PACR Polytechnic College, Rajapalayam on 14 Aug., 2025.



- Dr. S. Maharajan, ASP-I/Mech acted as jury member for “**Innovation contest - Edition of PACR 2K25**” organised by the PACR Polytechnic College, Rajapalayam on 28 Aug., 2025.



- Dr. S. Rajakarunakaran, Prof.&Head/Mech acted as a chief guest for the workshop on **“Recent Advancements in Mechanical Engineering”** organised by the Department of Mechanical Engineering, PACR Polytechnic College, Rajapalayam on 28 Aug., 2025.



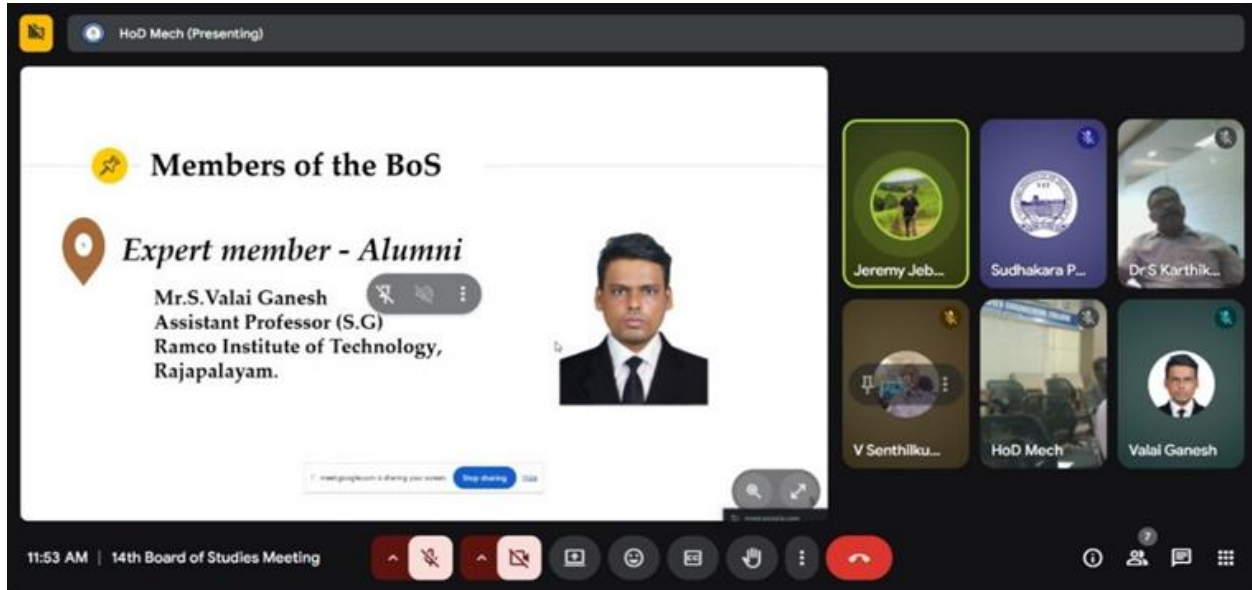
- Dr. P. Suresh Kumar, Prof./Mech, Mr. L. Karthikeyan, AP(SG)/Mech and Dr. R. Arun Kumar, AP-III/Mech served as experts during the **“NBA mock audit”** for Mechanical Engineering department of Sankar Poytechnic College on 19 Sep., 2025.



- Dr. S. Rajakarunakaran, Prof.&Head/Mech attended “**Academic Council Meeting**” organised by the Selvam College of Technology (SCT), Nammakal on 27 Oct., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech eligible to serve as a “**Jury Member for the upcoming Robot System Integration Competition- India Skills 2025**” after clearing the assessment for Jury members- organised by the National Skill Development Corporation which will be conducted during various states of India during Nov., 2025- Feb., 2026.
- Dr. G. Praburam, ASP-I/Mech and Dr. M. Ramar, AP-III/Mech served as judges in the “**6th Annual QCC/QIT Convention**” organised by the Ramco Mills Ltd, Rajapalayam during 06-07 Nov., 2025.



- Mr. S. Valai Ganesh, AP(SG)/Mech attended “14th Board of Studies Meeting- Mechanical Engineering” organised by the Francis Xavier Engineering College, Tirunelveli on 16 Dec., 2025.



- Dr. M. Ramar, AP-III/Mech served as a judge for the National Level Technical Conference “PACR TECHFEST 2026” organized by P.A.C. Ramasamy Raja Polytechnic College, Rajapalayam on 13 Feb., 2026.



Dr. R. Venkatesh, AP-III/Mech, acted as a Jury Member in the National Science Day "**Multi-Disciplinary Technical Poster Expo**" organised by the Department of Civil Engineering, IGBC Student Chapter of Ramco Institute of Technology, Rajapalayam on 26 Feb., 2026.



- Dr. S. Rajakarunakaran, Principal/RIT & ISTE Executive Committee Member participated in the “**13th ISTE Tamil nadu section polytechnic student convention 2026**” organised by the Sankar Polytechnic College on 07 Mar., 2026.



- Dr. S. Rajakarunakaran, Principal/RIT attended the “**Board of Studies Meeting**” organised by the Selvam College of Technology (SCT), Autonomous, Namakkal on 14 Mar., 2026.



REVIEWER

- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed a book chapter titled “**Internet of Things (IoT) in Agricultural Supply Chains: Enhancing Efficiency, Transparency, and Sustainability through Smart Technologies**” in the book “Industry 6.0 for Sustainable Supply Chains in Agriculture, Healthcare, and Asset Management”, IGI Publications on 01 July, 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Chemometric assessment of compost quality in Ghana using multivariate statistics**” in Heliyon Journal, Elsevier on 01 July, 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Control of Reactive Power of RES based Hybrid Isolated Power System using UPFC**” in the 5th International Conference on Advancement in Electronics & Communication Engineering (AECE -2025) organised by the Raj Kumar Goel Institute of Technology, Ghaziabad on 02 July, 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**From Disposal to Circular Solutions: A Bibliometric Review of Global E-Waste Research Patterns**”, “**IoT-Enabled Smart Cradle for Infant Monitoring System**”, “**Design and Implementation of a Smart Shopping Trolley System: Enhancing Retail Experience Through Technology**” and “**Temporal Transaction Time Prediction in Ethereum Using Ensemble Machine Learning Models with Temporal Phase Segmentation**” in the 6th International Conference on Mobile Radio Communication & 5G Networks – 2025 organised by the Department of Electronics & Communication Engineering, University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra, Haryana on 07 July, 2025.

- Dr. R. Venkatesh, AP-III/Mech reviewed an article titled “ **Infill Density Effect on the Flexural Behavior of FFF-based AM Polylactic Acid Parts**” in the Journal of Materiale Plastique on 14 July., 2025.
- Dr. R. Venkatesh, AP-III/Mech reviewed an article titled “**The Use of Cluster Analysis to Classify Wear Particle Shapes**” in the Journal of International Journal of Computer Theory and Engineering on 15 July., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**An intelligent pipeline robot defect detection method combining virtual reality interaction and strain sensing**” in Intelligent Service Robotics, Springer on 17 July, 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**An In-Depth Examination of Occupational Stress Among Banking Employees in Uttarakhand**” in in the 5th International Conference on Advancement in Electronics & Communication Engineering (AECE -2025) organised by the Raj Kumar Goel Institute of Technology, Ghaziabad on 23 July, 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Sustainable e-Waste Management Through Harnessing Machine Learning in Industrial Regions of Southeast Asia**” in the Global NEST Journal on 02 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed a book chapter on “**Enhancing Cryptography Security Using Effective Zero Knowledge Techniques: Securing Digital Communication Through Scalable and Trustless Cryptographic Protocols**” in the book Industry 6.0 for Sustainable Supply Chains in Agriculture, Healthcare, and Asset Management, IGI publications on 02 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Leveraging Gated Recurrent Units to Anticipate and Mitigate Post-Harvest Losses in Lafun Production**” in the Academia Engineering Journal on 05 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**IoT-Based Multi-Parameter Monitoring for Robust Vaccine Storage in Underserved Areas**”, “**SILENTWING-X – DEVELOPMENT OF A NOISE FREE DRONE USING PROPELLER BASED ANC TECHNOLOGY**” in the International Conference on Emerging Technologies in Electronics and Green Energy- 2025 organised by the Department of Electronics and Communication Engineering, Electronics and Instrumentation and Electrical and Electronics Engineering, JSS Science and Technology University, Mysuru. It is technically co-sponsored by IEEE Bangalore Section on 05 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Area and Power Optimized Ternary Decoder Using Memristor and FinFET**” in 2025 IEEE 17th International Conference on Computational Intelligence and Communication Networks (CICN) on 05 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**Travel Time Prediction Using Machine Learning: A Case Study on Mumbai Traffic**”, “**Foresight: Advanced**

Algorithms for Detecting Plastic Money Fraud” and “Performance Analysis of Federated Learning Algorithms using Ensemble Learning for Heart Disease Classification” in 2025 International Conference on Intelligent Computing Systems and Applications, Department of Computer Science and Engineering, National Institute of Technology Silchar on 06 Aug., 2025.

- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled **“REDUCE POST HARVEST LOSSES USING ENGINEERING TECHNIQUES”, “PERFORMANCE MODELING AND SIMULATION OF COBOT FOR PICK AND PLACE APPLICATION USING ROBODK”** in the International Conference on Emerging Technologies in Electronics and Green Energy- 2025 organised by the Department of Electronics and Communication Engineering, Electronics and Instrumentation and Electrical and Electronics Engineering, JSS Science and Technology University, Mysuru. It is technically co-sponsored by IEEE Bangalore Section on 14 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“ML Based Multimodal Assistive Robotic Navigator: A Voice-Enabled Communication and Path-Adaptive Line Follower for Visually Impaired Mobility Support”** in the International Conference on Emerging Technologies in Electronics and Green Energy- 2025 organised by the Department of Electronics and Communication Engineering, Electronics and Instrumentation and Electrical and Electronics Engineering, JSS Science and Technology University, Mysuru. It is technically co-sponsored by IEEE Bangalore Section on 21 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“Explainable Recommendation System for Smart Agriculture Farming with Improved Food Productivity”** in the Global NEST Journal on 29 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“An Approach to Automation in Smart Waste Classification Based on Machine Learning for Embedded Devices”** in the Journal of Ambient Intelligence and Smart Environments on 30 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“An intelligent pipeline robot defect detection method combining virtual reality interaction and strain sensing”** in the Journal of Intelligent Service Robotics, Springer on 30 Aug., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“Smart Fire Bot: Smart Indoor Robot With Type Aware Fire Classification And Suppression”** in the International Conference on Emerging Technologies in Electronics and Green Energy-2025 organised by the Department of Electronics and Communication Engineering, Electronics and Instrumentation and Electrical and Electronics Engineering, JSS Science and Technology University, Mysuru. It is technically co-sponsored by IEEE Bangalore Section on 01 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled **“Maximum power extraction of solar photovoltaic cell using IC based ANFIS controller”, “Peak power**

extraction of solar photovoltaic cell using PO-ANFIS controller”, “Optimization and management of solar photo-voltaic driven electric vehicle system” in the 5th International Conference on Advancement in Electronics & Communication Engineering (AECE -2025) organised by the Raj Kumar Goel Institute of Technology, Ghaziabad on 02 Sep, 2025.

- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled **“Marathi TinyStories: Redefining Small Language Models for Culturally Rich Narratives”**, **“Adaptive Neuro-Federated Distributed Computing Framework for Intelligent Edge-Cloud Collaboration in Real-Time Applications”**, **“Deep Learning and Biomechanical Modeling for Rupture Prediction in Abdominal Aortic Aneurysms Using Clinical and Morphological Features”** in 2025 IEEE Sponsored International Conference on Women in Computing (INCOWOCO 2025) which will be held at G H Rasoni College of Engineering and Management, Pune on 03 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“CAE Analysis and Material Selection for Chassis of 4-Wheel Efficycle”** in the International Journal of Computer Aided Manufacturing on 03 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled **“Beyond Relational: Leveraging Graph Databases for Efficient Real-time Data Processing”**, **“Wearable Sensor with AI for Prevention of Falls in Elderly People”**, **“Machine Learning Framework for Property Insurance Risk Assessment”**, **“Comparative Analysis of Text-Embedding Models for Enhanced Search Functionality: A Case Study on Harvard Course Dat”** in 1st IEEE International Conference on Application of Information Technologies in Engineering, Management and Science (ICAI-TEMS), to be held at the University of Calabria, Italy on 04 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech invited as a Technical Program Committee Member for the conference **“CSNT 2026 (15th IEEE International Conference on Communication Systems and Network Technologies)”** organised by the IEEE Madhya Pradesh Section as its Flagship Conference and hosted at VIT Bhopal in association with MIR Labs Gwalior with technical support of IETE Gwalior and IEEE Computer society chapter on 08 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“Machine Learning Approaches for Career Growth Recommendation - a Review”** in 2025 IEEE 17th International Conference on Computational Intelligence and Communication Networks (CICN), organised by the National Institute of Technology, Goa during 20-21 Dec., 2025. This article was reviewed on 29 Sep., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled **“Grey-Fuzzy Enhanced Gaussian Process Regression for Concrete Strength Prediction and Reliability Assessment”** in 2025 IEEE 17th International Conference on Computational Intelligence and Communication Networks (CICN), organised by the National Institute of Technology, Goa during 20-21 Dec., 2025. This article was reviewed on 11 Oct., 2025.

- Mr. S. Valai Ganesh, AP(SG)/Mech invited as the Technical Program Committee for the conference “**MPCON 2026 (2026 IEEE Madhya Pradesh Section Conference (MPCON))**” will be conducted during Mar., 2026.
- Dr. R. Venkatesh, AP-III/Mech reviewed an article titled “ **Experimental investigation on fatigue life of carbon fiber-reinforced Nylon (Onyx) based on extrusion printing** ” in the Journal of CMC-Computers, Materials & Continua on 14 Nov., 2025.
- Dr. G. Prabu ram, ASP I/Mech reviewed an article titled “**Effect of Heat Treatment on the Corrosion Resistance of Electroplated Zinc-Nickel Coatings**” for the Journal of Materials Engineering and Performance on 22 Oct., 2025.
- Dr. G. Prabu ram, ASP I/Mech reviewed an article titled “**Evaluation of Tribological and Corrosion Behavior of TiSiCN and TiCN Coated AISI 410 Stainless Steel Under the Influence of Heat Treatment**”, for Journal of Bio- and Tribo-Corrosion on 03 Nov., 2025.
- Mr. S. Valai Ganesh, AP(SG)/Mech invited as the “**TPC member**” for CICN 2026 (2026 IEEE 18th International Conference on Computational Intelligence and Communication Networks (CICN)) organised by the NIT Goa.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Intelligent Robotic Waste Segregation Using YOLOv11 for Real-Time Object Detection**” in 15th IEEE International Conference on Communication Systems and Network Technologies organised by the Prince Mohammad Bin Fahd University, and IEEE Madhya Pradesh Section on 26 Dec., 2025.
- Dr. G. Prabu ram, ASP-I/Mech reviewed an article titled “**Compositional Analysis of Hemp Hurd Affected by Variety and Planting Season** ” for the Journal of bioresources on 05 Jan., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**AI-Driven Smart Agriculture System For Enhanced Crop Productivity**” for the Global NEST Journal on 06 Jan., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Optimizing Cost–Risk–Environmental Performance and Policy Guidance in Urban Hazardous Waste–Management Systems**” for the Global NEST Journal on 08 Jan., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles “**Attention-Enhanced Temporal Deep Learning Architecture for Accurate Financial Time Series Forecasting**”, “**NLP-Based Framework for Simplifying Complex Financial Documents**” in the 2026 IEEE Madhya Pradesh Section Conference (MPCON) in association with Rustamji Institute of Technology, Tekanpur on 12 Jan., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article “**Recognizing AI-Generated Handwritten Answers Based on Argument-Mining Framework**” in the 15th IEEE International Conference on Communication Systems and Network Technologies organized jointly by Prince Mohammad Bin Fahd University, and IEEE Madhya Pradesh Section on 19 Jan., 2026.

- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article in the **Heliyon Journal** on 05 Feb., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Optimizing Cost–Risk–Environmental Performance and Policy Guidance in Urban Hazardous Waste–Management Systems**” for the Global NEST Journal on 20 Feb., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**How environmental protection education affects rural residents’ waste sorting behavior: Based on the mediating effect of policy cognition**” for the Global NEST Journal on 24 Feb., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**Collaborative Learning Object Repositories and Edu Learn LCMS Integration in a Peer-to-Peer Mechanism**”, “**AI Based Efficient Human Emotion Recognition from Facial Images**”, “**IoT-Enabled Intelligent Medicine Box for Automated Medication Scheduling and Monitoring**” in 2nd International Conference on Advanced and Global Engineering Challenges conducted by the Aditya University, Andhra Pradesh on 25 Feb., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**Deep Learning-Based Detection of Liver Tumors using CT Images**”, “**Analysis of Electrophysiological signals**”, “**Brain Tumor segmentation from MRI Image using hybrid double U_NET with VGG19**”, “**Optimizing I2C slave architecture for enhanced efficiency in low-power applications**”, “**AI based thermographic weld join inspection**”, “**Nectar: An Active Defense Middleware for Economic Deterrence of Web Scrapers**”, “**Design and Implementation of a Low-Power Vision Transformer Accelerator on FPGA**”, “**A smart violation detection system trained using OpenCV and real-time surveillance data**”, “**Empowered mining safety and hazard detections using Yolov8 and Django integration**”, “**ECG based Sleep Disorder Prediction using Machine Learning**”, “**Real-Time Wearable Safety System for Seafarers Using Wi-Fi Connectivity and Biometric Monitoring**”, “**Design and Implementation of a Custom Multiply Accumulate Instruction in an Open-Source RISC-V Processor Core**”, “**IoT - Based Smart Energy Management System For Home Appliances**”, “**AI Powered Health Care Management System**”, “**Arboretum Oasis : AI-enabled educational platform for immersive and inclusive learning**” in the International Conference on Intelligent Systems and Digital Transformation (ICISD’26) conducted by the SRM Institute of Science and Technology, Vadapalani Campus during 22-26 Feb., 2026.
- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an article titled “**Design and Implementation of an Autonomous IoT-Based Factory Monitoring Robot Using YOLOv5 and Cloud Integration**” in the International Conference on Communication Systems and Network Technologies (CSNT 2026) conducted by the Prince Mohammad Bin Fahd University, Al-Khobar, Saudi Arabia on 02 Mar., 2026.

- Mr. S. Valai Ganesh, AP(SG)/Mech reviewed an articles titled “**Multi-Domain Medical Image Classification Using EfficientNet-B3**”, “**Unsupervised Change Detection in Satellite Images Using Deep Learning**” in the 2nd International Conference on Advanced and Global Engineering Challenges conducted by the Aditya University, Andhra Pradesh on 10 Mar., 2026.
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PROPOSAL SUBMISSION

- S. Ajay, S. Mahaviswa, III Mech, G. Santhosh, II CSBS, K. S. Akash, II ECE submitted a proposal on “**Smart Medical Waste Segregation and Disposal System**” in Mitsubishi Electric Cup 2026 on 05 Sep., 2025. Mr. S. Valai Ganesh, AP(SG)/Mech acted as faculty advisor for this submission.
- B. Shanmugapandi, III Mech, H. Guru Rengarajan, III EEE, G. Santhosh, III CSBS, K. S. Akash, II ECE submitted a proposal titled “**VLA-Driven Collaborative Robotic System for Precision Pick-and-Place Applications in Smart Manufacturing**” in RIT SEED Proposal on 30 Sep., 2025. Mr. S. Valai Ganesh, AP(SG)/Mech acted as one of the mentors for this submission.
- B. Shanmugapandi, III Mech, H. Guru Rengarajan, III EEE, G. Santhosh, III CSBS, K. S. Akash, II ECE submitted a proposal titled “**COGNIBOT: An Intelligent Vision-Language-Action Framework for Adaptive Collaborative Robotic Manipulation in Industry 4.0 Manufacturing**” in Vishwakarma Awards 2025 Industry Problem on 08 Oct., 2025. Mr. S. Valai Ganesh, AP(SG)/Mech acted as mentor for this submission.
- Mr. S. Valai Ganesh, AP(SG)/Mech, Dr. S. Rajakarunakaran, Prof.&Head/Mech submitted a hackathon solution proposal titled “**Edible Millet Cups: A Sustainable and Nutritious Alternative to Single-Use Plastic and Paper Cups**” in Hackathon - 2025 Eco-Alternatives to Single Use Plastics organised by the Central Pollution Control Board, New Delhi on 09 Oct., 2025.
- Dr. R. Arun Kumar, AP-III/Mech and Dr. V. Sivakumar, Prof./Mech submitted an article titled “**Experimental Investigation on IoT-Enabled Atomizers in Single Slope Solar Still**” as a nomination for IE(I) Coal India - JG Kumaramangalam Memorial Award.
- Mr. S. Valai Ganesh, AP(SG)/Mech submitted an article titled “**Forward and Inverse Kinematics of Stewart Platform using Machine Learning Models with Validation**” as a nomination for IE(I) Dr. M Visvesvaraya Award 2025.

FACULTY PUBLICATION-ARTICLE/BOOK CHAPTER

- Valai Ganesh Sankararamasubramanian, Suresh Vaikuntam, Godwin Barnabas Solomon, Rajakarunakaran Sivaprakasam (2025), Exploring Sustainable Futures: Strategic Transitions in India's Urban Waste Scenario - A Comprehensive Review, Environmental

Engineering and Management Journal, 24(9), 2099-2121.
<http://doi.org/10.30638/eemj.2025.162>

- Valai Ganesh S, Suresh V, Rajakarunakaran S, Suryakumar V (2025), **Sustainable electronic waste management framework for academic institutions in India**, Scientific Reports, 15, 40550. <https://doi.org/10.1038/s41598-025-24278-z>
- R. Arun Kumar, V. Sivakumar, P. Ramanan, “**Performance Investigation on an In-built Condenser Solar Still with Rotating Drum – 5E Analyses**”, Applied Thermal Engineering 288 (2026),129622. <https://doi.org/10.1016/j.applthermaleng.2025.129622> (Q1, IF: 6.9)
- Karuppasamy, K., **Ganesamoorthy, P. R.**, Pandiaraj, S., and Rajendran, S. (2026). "Development of sustainable silane-treated hemp fiber and Lansium parasiticum shell bio-filler-reinforced polyester composite," BioResources 21(1), 1880–1898. Impact factor: 1.74. SCIE & Scopus Indexed.

AWARD

- Mr. S. Valai Ganesh, AP(SG)/Mech cleared “**Automation Developer Associate Examination certification**” offered by UiPath on 12 July, 2025. This certification is valid for 3 years.
- Dr. R. Arun Kumar, AP-III/Mech, received the “**IE(I) Young Engineer Award 2025**” during the National Convention for Mechanical Engineering held at NIT Durgapur during 23-24 Aug., 2025.



- Dr. R. Arun Kumar, AP-III Mech, had contributed as faculty mentor and assistant faculty for the 8-week course "**Design Thinking and Community-Based Design**", offered by IUCEE between June to August 2025
- Dr. S. Rajakarunakaran, Prof.&Head/Mech recognized as “**Dedication member**” with Safety Engineers Association (SEA) during the period 2000-2025.

- Dr. M. Ramar, AP-III/Mech has successfully defended his “**Ph.D- Viva Voce**” on 17 Oct., 2025 at AAA College of Engineering and Technology, Sivakasi.
- Mr. L. Karthikeyan, AP(SG)/Mech secured Top 5% in an online course on “**Manufacturing Systems and Technology I & II**” offered by IIT Kanpur via NPTEL.
- Mr. L. Karthikeyan, AP(SG)/Mech secured Top 2% (Elite + Gold) in an online course on “**Automation in Manufacturing**” offered by IIT Guwahati via NPTEL.
- Dr. V. Sivakumar, Prof./Mech secured Top 2% in an online course on “**Ethics in Engineering Practice**” offered by IIT Kharagpur via NPTEL.
- Dr. V. Sivakumar, Prof./Mech secured Top 2% in an online course on “**Technical Communication for Engineers**” offered by IIT Roorkee via NPTEL.
- Dr. R. Arun Kumar, AP-III/Mech and Convener, RIT-IIC, was awarded as “**Best Innovation Ambassador**” by the Ministry of Education's Innovation Cell, Government of India, during the IIC regional meet 2025 held at Francis Xavier Engineering College, Tirunelveli on 02 Dec., 2025.



- Dr. S. Rajakarunakaran, Prof.&Head/Mech has been recognized as “**NPTEL Domain Star- Faculty Domain - Advanced**” given by NPTEL during July- Dec., 2025 session.
- Dr. V. Sivakumar, Prof./Mech, has been recognized as an “**NPTEL Believer Star**” by NPTEL during the July- Dec. 2025 session.
- Dr. V. Sivakumar, Prof./Mech, has been recognized as an “**NPTEL Motivated Learner**” by NPTEL during the July- Dec. 2025 session.
- Mr. S. Valai Ganesh, AP(SG)/Mech has been recognized as “**NPTEL Believer Star**” given by NPTEL during July- Dec., 2025 session.

- Mr. S. Valai Ganesh, AP(SG)/Mech has been recognized as “**NPTEL Domain Star-Manufacturing Processes and Technology**” given by NPTEL during July- Dec., 2025 session.
- Mr. L. Karthikeyan, AP(SG)/Mech has been recognized as “**NPTEL Discipline Star-Mechanical Engineering**” given by NPTEL during July- Dec., 2025 session.
- Dr. G. Prabu ram, ASP-I/Mech received a certificate of appreciation for mentoring students for a NPTEL course "**Advanced Machining Processes**" organized by IIT Guwahati during July – Dec., 2025.
- Dr. J. Jerold John Britto, ASP-II/Mech received “**Member Consortium shield-IUCEE**” organised by the IUCEE and GITAM (Deemed to be University) during 07-10 Jan., 2026.



- Dr. G. Prabu ram, ASP-I/Mech received a certificate of appreciation for evaluation of Ideas in Smart India Hackathon 2025 as "**Screening Evaluator**" organized by the Ministry of Education Dec., 2025.
- Dr. R. Arun Kumar, AP-III/Mech, is recognized as a **mentor** by Start-up TN
- Dr. R. Arun Kumar, AP-III/Mech has been honoured as "**Individual Honorary Member**" of IUCEE for the year 2026

DC MEMBER

- Dr. S. Rajakarunakaran, Prof.&Head/Mech attended “**DC Synopsis Meeting**” for the scholar Mr. P. Ebenezer Sathish Paul in PSR Engineering College on 08 Aug., 2025.
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