



**SRM TRP**  
ENGINEERING COLLEGE  
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# SRM TRP

## ENGINEERING COLLEGE

# ASPIRE

Academic Skills Placement Innovation Research  
and Exploration

# NEWSLETTER

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# CONTENT

## VISION

To carve the youth as dynamic, competent, valued and knowledgeable Technocrats through research, innovation and entrepreneurial development for accomplishing the global expectations.

## MISSION

**M1:** To Inculcate academic excellence in engineering education to create talented professionals.

**M2:** To Promote research in basic sciences and applied engineering among faculty and students to fulfill the societal expectations.

**M3:** To enhance the holistic development of the students through meaningful interaction with industry and academia.

**M4:** To foster the students on par with sustainable development goals thereby contributing to the process of nation building.

**M5:** To nurture and retain conducive lifelong learning environment towards professional excellence.

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Asst.Professor / ECE



### Landslide hazard zonation using heuristic and machine learning approaches for steep terrains

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Keywords: landslide hazard zonation, Nilgiris District, XGBoost, gradient boosting, machine learning

**Abstract**

Landslides are a frequent and destructive hazard in the Nilgiris District of Tamil Nadu, where steep slopes, fragile geological formations, intense rainfall, and increasing human activity combine to create highly unstable conditions. This study developed a comprehensive landslide hazard zonation framework by integrating traditional heuristic and machine learning approaches. A total of 509 validated landslide locations and 509 non-landslide points were used for model development and validation. Twelve landslide conditioning factors, namely slope, aspect, elevation, lithology, geomorphology, soil, land use/land cover, rainfall, stream density, lineament density, topographic position index, and distance from roads, were derived from multiple geospatial datasets and incorporated into the analysis. Three modeling approaches, weighted index overlay analysis, gradient boosting machine (GBM), and Extreme gradient boosting (XGBoost), were implemented to generate landslide susceptibility maps. Model validation using independent datasets and confusion matrix metrics demonstrated that XGBoost outperformed the other approaches, achieving an accuracy of 0.78, recall of 0.97, F1-score of 0.82, and an AUC of 0.86. GBM also exhibited strong predictive capability, whereas WIOA produced comparatively lower accuracy (0.67) and lacked probabilistic discrimination. Shapley additive explanations (SHAP) analysis identified slope, rainfall, lithology, distance from roads, and lineament density as the dominant factors influencing landslide occurrence, emphasizing the combined role of terrain characteristics, hydrological conditions, geological controls, and anthropogenic disturbances in slope instability. Spatial analysis revealed that very high hazard zones were concentrated in Kundah Taluk, Coonoor, Kotagiri, Manjoor, and the upper Gudalur basin, where steep slopes, weak lithological formations, dense drainage networks, and intensive human interventions coincide. The results demonstrate the superiority of ensemble machine learning approaches over conventional heuristic methods for landslide hazard assessment and provide a robust framework for disaster risk reduction and sustainable land-use planning in mountainous regions.

### Faculty Research Achievement

Sanjeev Kumar S. Publishes Research Article on Landslide Hazard Zonation Using Machine Learning

Mr. Sanjeev Kumar S., Assistant Professor, Department of Civil Engineering, SRM TRP Engineering College, Trichy, has contributed to a significant research publication titled "Landslide hazard zonation using heuristic and machine learning approaches for steep terrains", published in the peer-reviewed journal Environmental Research Communications, an IOP Publishing journal, in August 2026.

Dr. R. Jino, Associate Professor, Department of Civil Engineering, SRM TRP Engineering College, Trichy, successfully participated in the Hands-on Training on "Earth Observation Meets AI: Modern Geospatial Approaches for Geology and Water Studies" organized by the Centre for Earth and Atmospheric Sciences (CEAS), Sathyabama Institute of Science and Technology (Deemed to be University), Chennai.

The two-day hands-on training was conducted on 27 and 28 August 2026 at the Sathyabama Research Park, Chennai. The programme focused on modern applications of Earth Observation, Artificial Intelligence (AI), and Geospatial approaches in the fields of geology and water studies.

The participation of Dr. R. Jino in this specialized training reflects his continued efforts towards enhancing expertise in Remote Sensing, GIS, AI-based geospatial applications, and sustainable water and environmental studies, thereby contributing to academic enrichment and research advancement in the Department of Civil Engineering.



# ELECTRONICS AND COMMUNICATION ENGINEERING

## FACULTY ACHIEVEMENT



Mr. C. Anandhan, Assistant Professor, Department of Electronics and Communication Engineering, SRM TRP Engineering College, successfully participated in a Six-Day Faculty Development Programme (FDP) titled “The Intelligent Frontier: Generative AI, Smart Systems and Next-Gen Engineering Innovation.” The programme was organized by the Department of ECE, Chennai Institute of Technology, Chennai, from 17th to 22nd August 2026.

Dr. A. Sugantha, Assistant Professor, SRM TRP Engineering College, successfully participated in a Five-Day National Level Faculty Development Programme (FDP) on “Generative AI for VLSI Electronic Design Automation.” The programme was organized by the Department of Electronics and Communication Engineering, Christ the King Engineering College from 3rd to 7th August 2026. The FDP provided valuable exposure to the applications of Generative AI in VLSI design and Electronic Design Automation (EDA). The programme enhanced the participant’s knowledge of emerging AI-driven techniques and their potential applications in semiconductor and VLSI design.



Dr. Sasi G, Associate Professor, SRM Tiruchirappalli Engineering College, actively participated in an Online Six-Day Faculty Development Programme (FDP) on “Artificial Intelligence-Driven Pedagogy: Enhancing Student Engagement and Learning Outcomes.” The programme was organized by the Department of Computer Science and Engineering (Cyber Security), Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai, from 3rd to 8th August 2026. The FDP focused on the effective integration of Artificial Intelligence in teaching and learning practices.



# ELECTRONICS AND COMMUNICATION ENGINEERING

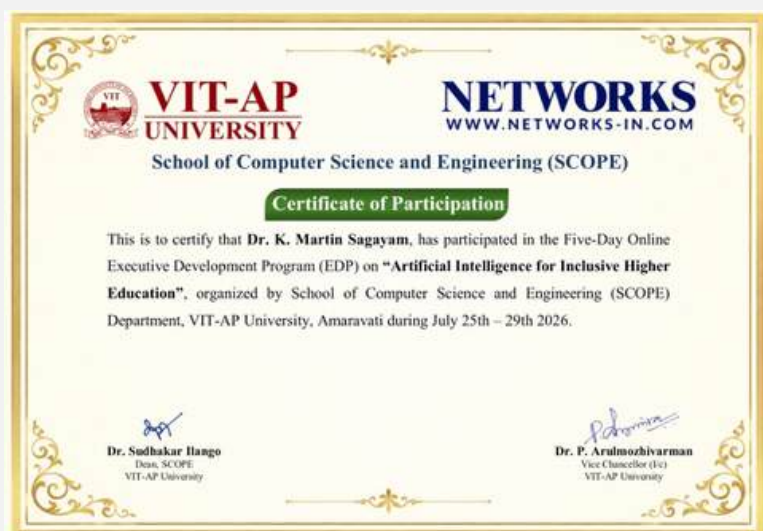
## FACULTY ACHIEVEMENT



Mr. M. Vijay, Assistant Professor, Department of Electronics and Communication Engineering, SRM TRP Engineering College, successfully completed a Five-Day Faculty Development Programme (FDP) on “Design and Implementation of VLSI Circuits for 6G Networks – Technological Challenges.” The programme was organized by the Department of Electronics and Communication Engineering, Sri Venkatesa Perumal College of Engineering & Technology (Autonomous), Puttur, from 3rd to 7th August 2026 through online mode.



Mr. M. Vijay, Assistant Professor, Department of Electronics and Communication Engineering, SRM TRP Engineering College, successfully completed a Five-Day Faculty Development Programme (FDP) on “Design and Implementation of VLSI Circuits for 6G Networks – Technological Challenges.” The programme was organized by the Department of Electronics and Communication Engineering, Sri Venkatesa Perumal College of Engineering & Technology (Autonomous), Puttur, from 3rd to 7th August 2026 through online mode. +



Dr. K. Martin Sagayam, Associate Professor, successfully participated in a Five-Day Online Executive Development Program (EDP) on “Artificial Intelligence for Inclusive Higher Education.” The programme was organized by the School of Computer Science and Engineering (SCOPE), VIT-AP University, Amaravati, in association with Networks, from 25th to 29th July 2026. The programme focused on the role of Artificial Intelligence in promoting inclusive and effective higher education. It provided valuable insights into AI-driven approaches for enhancing teaching, learning, accessibility, and student engagement. The participation contributed to strengthening professional knowledge and understanding of the emerging applications of AI in higher education.

# ELECTRONICS AND COMMUNICATION ENGINEERING

## FACULTY ACHIEVEMENT



Mrs. Gayathri N, Assistant Professor, Department of Electronics and Communication Engineering, SRM TRP Engineering College, successfully participated in a Five-Day National Level Faculty Development Programme (FDP) on “AI Based Electronic System Design.” The programme was organized by the Department of Electronics and Communication Engineering, J.P. College of Engineering, Ayikudi, Tenkasi, and was held from 17th to 21st August 2026. The FDP focused on the integration of Artificial Intelligence with electronic system design and its emerging applications. The programme provided valuable insights into AI-enabled design approaches and innovative electronic systems. Participation in the FDP enhanced the faculty member’s knowledge of AI-based electronic design methodologies and contributed to continuous professional development.

Mrs. Gayathri N, Assistant Professor, Department of Electronics and Communication Engineering, SRM TRP Engineering College, successfully participated in a One-Day Faculty Development Programme (FDP) on “Next Generation Wireless Communication from 5G to 6G.” The programme was organized by the Department of Electronics and Communication Engineering, A.K.T. Memorial College of Engineering and Technology, and was held on 12th August 2026. The FDP provided valuable insights into the evolution of 5G and 6G wireless communication technologies, emerging trends, and future communication systems. The programme enhanced the participant’s understanding of next-generation wireless technologies and their applications in modern communication engineering.



Dr. K. Martin Sagayam, Associate Professor, successfully completed the Discover Editorial Community online course titled “Welcome Course for Editorial Board Members.” The course was completed on 11th August 2026 through the Discover Editorial Community platform.



# ELECTRONICS AND COMMUNICATION ENGINEERING

## FACULTY ACHIEVEMENT



Mrs. G. A. Nivedaa, Assistant Professor, SRM TRP Engineering College, successfully participated in a Six-Day Faculty Development Programme (FDP) titled "The Intelligent Frontier: Generative AI, Smart Systems and Next-Gen Engineering Innovation." The programme was organized by the Department of Electronics and Communication Engineering, Chennai Institute of Technology, Chennai, from 17th to 22nd August 2026.



Dr. K. Martin Sagayam, Associate Professor, was recognized for his contribution as a reviewer for one manuscript in Discover Applied Sciences during 2026. The reviewer certificate acknowledges his contribution to the peer-review process and scholarly evaluation of research work. The certificate was awarded on 3rd August 2026, highlighting his active involvement in supporting academic publishing and research quality.



Mr. M. Vijay, Assistant Professor, SRM TRP Engineering College, successfully participated in a Six-Day Faculty Development Programme (FDP) titled "The Intelligent Frontier: Generative AI, Smart Systems and Next-Gen Engineering Innovation." The programme was organized by the Department of Electronics and Communication Engineering, Chennai Institute of Technology, Chennai, from 17th to 22nd August 2026.



Mrs. S. Priyadarshini, Assistant Professor, was recognized for his contribution as a reviewer for one manuscript in Discover Applied Sciences during 2026. The reviewer certificate acknowledges his contribution to the peer-review process and scholarly evaluation of research work. The certificate was awarded on 3rd August 2026, highlighting his active involvement in supporting academic publishing and research quality.

# ELECTRICAL AND ELECTRONICS ENGINEERING

## FACULTY ACHIEVEMENTS



The Department of Electrical and Electronics Engineering, SRM TRP Engineering College, proudly announces the publication of a patent titled “Drone–Weather Station Integrated ML Model for Tomato Leaf Disease Detection and Water Management,” developed by Dr. R. Meenal. The patent was published on 14 August 2026. The innovative system integrates a drone-based weather station, Machine Learning (ML), and CNN for smart agriculture. It collects real-time weather data to estimate crop water requirements and optimize irrigation. Drone-captured images are analyzed for early detection of tomato leaf diseases. The system promotes water conservation, reduced crop losses, and improved productivity. This achievement highlights the institution’s commitment to innovation, sustainable agriculture, and advanced technology.

| PATENT APPLICATION PUBLICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                   |
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| (19) INDIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (21) Application No. 202641011727 A                                                                                                                                                                                                               |
| (22) Date of Filing of Application : 04/02/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (43) Publication Date : 14/08/2026                                                                                                                                                                                                                |
| (54) Title of the invention :<br><b>DRONE-WEATHER STATION INTEGRATED ML MODEL FOR TOMATO LEAF DISEASE DETECTION AND WATER MANAGEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                   |
| (51) International classification<br>B64C 39/02, G06G 50/02, G06N 20/00, G06N 3/08, G01W 1/10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                   |
| (31) Priority Document No : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (71) Name of Applicant :<br><b>1) SRM TRP ENGINEERING COLLEGE</b><br>Address of Applicant : The Principal, SRM TRP Engineering College, SRM Nagar, Chennai - Trichy Highway, Irungar, Tiruchirappalli, TAMILNADU Tiruchirappalli Tamil Nadu India |
| (32) Priority Date : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (72) Name of Inventor :<br><b>1) Dr. R. Meenal</b>                                                                                                                                                                                                |
| (33) Name of priority country : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                   |
| (34) International Application No Filing Date : 01/01/1900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                   |
| (37) International Publication No : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                   |
| (51) Patent of Addition to Application Number Filing Date : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                   |
| (62) Divisional to Application Number Filing Date : NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                   |
| (57) Abstract :<br>The present invention describes a drone-based mobile weather station integrated with machine learning framework for precise crop water management and tomato leaf disease prediction. The drone-based ML system is created by fusing two different technologies. In the initial stage of the system, a drone equipped with sensors is utilized to collect real-time meteorological data, such as temperature, humidity, solar radiation, atmospheric pressure and brightness to calculate the accurate water requirement using random forest machine learning algorithm, effectively manage irrigation and conserve water. The second part of the system uses deep learning technique to identify leaf diseases in diverse crops. A camera on the drone can capture images of crops which are processed by the Convolution Neural Network (CNN) system, which looks for any signs of sickness like malformed or discolored leaves. Thus this drone-based early leaf-disease detection using CNN and water-requirement calculation using ML technique can help farmers make better management decisions, improving crop yields, reducing losses and to optimize the water use efficiency of the tomato crop. |                                                                                                                                                                                                                                                   |
| No. of Pages : 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. of Claims : 9                                                                                                                                                                                                                                 |

Dr. J. Amudha, Professor, Department of Electrical and Electronics Engineering , SRM TRP Engineering College, has published a research article titled “An Intelligent Metaheuristic-Assisted Feedforward Neural Network Framework for Accurate Alzheimer’s Disease Classification Using Medical Diagnostic Data” in the Journal of Intelligent Decision Making and Information Science, Volume 3(5s), 2026. The research proposes an intelligent hybrid framework integrating a Feedforward Neural Network (FNN) with the Grey Wolf Optimizer (GWO) for accurate classification of Alzheimer’s disease using medical diagnostic data. The proposed model was evaluated using the OASIS and ADNI datasets and demonstrated strong classification performance. The publication highlights the application of artificial intelligence, machine learning, and metaheuristic optimization in advancing intelligent clinical diagnostic systems and reflects the department’s commitment to interdisciplinary research and technological innovation.

| Journal of Intelligent Decision Making and Information Science, Volume 3(5s), 2026, 2008-2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Journal of Intelligent Decision Making and Information Science</b><br>www.jidmis.org<br>eISSN: 3079-0875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>An Intelligent Metaheuristic-Assisted Feedforward Neural Network Framework for Accurate Alzheimer’s Disease Classification Using Medical Diagnostic Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dr.J.Amudha <sup>1</sup> , Dr Arun Khatri <sup>2</sup> , Dr.A.ParimalagandhiAyyavu <sup>3</sup> , P.Sudheer <sup>4</sup> , Dr. N. Sandhya <sup>5</sup> , Dr. Sumit Kushwaha <sup>6</sup> , S.D.Vijayakumar <sup>7</sup> , Dr .P.Dharmendra Kumar <sup>8</sup><br><sup>1</sup> Professor, Department of EEE, SRM TRP Engineering College, Trichy, tamilnadu, india. Email: ja.amudha76@gmail.com<br><sup>2</sup> Professor, Department of Mittal School of Business, Lovely Professional University Punjab, Pincode 144402 Orcid: 0000-0002-5895-7951 Email: khatriarun@yahoo.com<br><sup>3</sup> Professor, Department of Biomedical Engineering, Vivekananda College of Engineering for Women, Tiruchengode Tamilnadu, India. Email: parimalagandhi410@gmail.com<br><sup>4</sup> Senior Assistant Professor, Department of CSE(AI&ML), CVR COLLEGE OF ENGINEERING, Ibrahimpatnam (Mandal, Pocharam Rd, Vastunagar, Mangalpalli Village, Telangana 501510. Email: sudheerchary7@gmail.com<br><sup>5</sup> Professor, Department of CSE-AI&IoT, Vallurupalli Nagarwara Rao Vignana Jyothi Institute of Engineering & Technology, Bachupally, Hyderabad, India. Email: sandhyamada@gmail.com https://orcid.org/0000-0003-4962-2647<br><sup>6</sup> Associate Professor, Department of Directorate of Research, Innovation, and Consultancy (DRIC), Chandigarh University Uttar Pradesh, Unnao - 209859, Uttar Pradesh, India. Email: sumit.kushwaha1@gmail.com ORCID: 0000-0002-3830-1736<br><sup>7</sup> Department of Artificial Intelligence and Data Science, Naradha Engineering College, Erode, tamilnadu, India. Email: ma2vijay sd@gmail.com<br><sup>8</sup> Assistant professor, Department of CSE, Konyu Lakshmaiah Education Foundation, Vaddeswaram, AP, India, p.dharmendrakumar@kuviversity.in, dharmendra.phd.aui@gmail.com https://orcid.org/0009-0006-5087-9123 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ARTICLE INFO</b><br><b>Article history:</b><br>Received 08 April 2026<br>Received in revised form 05 May 2026<br>Accepted 20 May 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>ABSTRACT</b><br>Alzheimer’s disease (AD) is a progressive neurodegenerative disease which represents a major burden of global health. The early and accurate classification of the stages of AD is crucial for early clinical intervention. In this paper, an intelligent hybrid system combining a Feedforward Neural Network (FNN) and a metaheuristic optimization method known as Grey Wolf Optimizer (GWO) is proposed for accurate classification of Alzheimer’s disease based on multi-modal medical diagnostic information. To overcome the drawbacks of gradient-based learning such as falling into local minima and convergence slowdown, the GWO is used to optimize the FNN’s hyperparameters and synaptic weights. The proposed GWO-FNN model is tested on two datasets: The Open Access Series of Imaging Studies (OASIS) dataset and Alzheimer’s Disease Neuroimaging Initiative (ADNI) dataset. The experimental results show that the GWO-FNN outperforms the conventional machine learning models and the standalone neural networks, with a classification accuracy of 97.4%, sensitivity of 96.8%, specificity of 97.9% and AUC of 0.987. The results highlight the effectiveness of Deep Optimization using a Metaheuristic approach in clinical neurodiagnostic system. |
| <b>Keywords:</b> Alzheimer’s Disease, Feedforward Neural Network, Grey Wolf Optimizer, Metaheuristic Optimization, Medical Diagnostic Classification, Machine Learning, OASIS, ADNI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

# ELECTRICAL AND ELECTRONICS ENGINEERING

## ACHIEVEMENTS



### Course Completion Certificate

Meenal R

has successfully completed **100%** of the self-paced training course

Simscape Onramp

*[Signature]*  
DIRECTOR, TRAINING SERVICES

2 August 2026

Dr. R. Meenal successfully completed the “Simscape Onramp” self-paced training course offered by MathWorks Training Services on 02 August 2026. The course provided valuable insights into Simscape modeling and simulation, strengthening skills in developing and analyzing physical system models. This achievement demonstrates a commitment to continuous professional development and technology-enhanced teaching and research. The Department of Electrical and Electronics Engineering congratulates Dr. R. Meenal on this commendable accomplishment.

Dr. R. Sathishkumar, Associate Professor, Department of Electrical and Electronics Engineering, SRM TRP Engineering College, participated in a Six-Day Faculty Development Programme (FDP) titled “The Intelligent Frontier: Generative AI, Smart Systems and Next-Gen Engineering Innovation.” The programme was organized by the Department of ECE, Chennai Institute of Technology, Chennai, from 17th to 22nd August 2026. The FDP provided valuable exposure to emerging trends in Generative AI, smart systems, and next-generation engineering innovations, contributing to faculty knowledge enhancement and professional development.



The Department of EEE, SRM TRP Engineering College, proudly congratulates Mr. Sri Hari for successfully completing an internship at GTRE, DRDO, Bengaluru. The internship was conducted from 03 July to 31 July 2026 under the Instrumentation Control Group. The training focused on Aero Gas Turbine Engines, Instrumentation, and Vibration Systems. The internship provided valuable exposure to advanced defence and aerospace technologies. It strengthened his technical knowledge, practical understanding, and industry readiness. This achievement reflects his dedication towards continuous learning and professional development. The department congratulates him and wishes him continued success in his future endeavours.

# ELECTRICAL AND ELECTRONICS ENGINEERING

## STUDENT ACHIEVEMENTS

The Department of Electrical and Electronics Engineering proudly celebrates the placement achievement of Ms. Chandraleka G (Reg. No. 814722105007), from the 2026 passed-out batch, who has been successfully placed at ZF Group with an impressive CTC of ₹7.25 LPA. This remarkable accomplishment reflects her dedication, perseverance, technical competence, and commitment to excellence. Her success is a proud moment for the department and the institution, demonstrating the career readiness and professional potential of our students. The department extends its heartiest congratulations to Ms. Chandraleka G and wishes her continued success, professional growth, and a rewarding career ahead.

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Reg. No. 814722105007  
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₹ **7.25** LPA

Logos: NAAC A+, NBA, UGC 2(F), ISO 9001, ISO 14001, ISO 45001, SDG, Green Building, etc.

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The Department of Electrical and Electronics Engineering, SRM TRP Engineering College, proudly congratulates Mr. S. Arjun, alumnus of the 2025 passed-out batch, for securing the prestigious 15th Rank in Electrical and Electronics Engineering at Anna University. This remarkable accomplishment reflects his academic excellence, dedication, perseverance, and consistent hard work. His achievement brings immense pride and honour to the department and the institution and serves as an inspiration to aspiring engineers. The department extends its heartiest congratulations to Mr. A. Arjun and wishes him continued success, professional excellence, and many greater milestones in his future endeavours.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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# ELECTRICAL AND ELECTRONICS ENGINEERING EVENTS



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**IEEE** STUDENT BRANCH SRM TRP EC, TIRUCHIRAPPALLI  
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Organize a  
Webinar on  
**BRIDGING ENERGY DOMAINS: POWERING OIL & GAS EPC THROUGH ELECTRICAL ENGINEERING - CAREER PATHWAYS FOR EEE STUDENTS**  
Who can attend: Electrical and Electronics Engineering Students

**Resource Person**  
**Er. R. Naga Sundar**  
Senior Engineer/Manager- Electrical  
Worley Services India Pvt. Ltd.  
Chennai, India

**Date:** 14.08.2026 (Friday)  
**Time:** 02.00 p.m.  
**Venue:** Online

**Outcomes**  
After the event, the student will be able to

- Understand the role and opportunities for electrical engineers in the Oil & Gas EPC industry.
- Gain exposure to real-time industry practices, technologies, and project execution.

**Online Meeting Link**  
<https://meet.google.com/kqk-gmdh-sci>

**Convenor**  
Dr. J. Amudha,  
Professor & Head /EEE

**Coordinators**  
Dr. R. Sathishkumar, ASP/EEE  
Mr. J. Subramaniyan, AP /EEE

SRM TRP Engineering College  
Tiruchirappalli



The Department of Electrical and Electronics Engineering (EEE), in association with the REVOLTA Club, successfully organized an insightful webinar titled “Bridging Energy Domains: Powering Oil & Gas EPC through Electrical Engineering – Career Pathways for EEE Students” on 14 August 2026 through online mode. The session provided students with valuable exposure to the Oil & Gas Engineering, Procurement and Construction (EPC) sector, highlighting the significant role of electrical engineers in industrial projects. Students gained insights into industry practices, career opportunities, essential technical competencies, and professional pathways in the energy sector. The webinar effectively bridged the gap between academic learning and real-world industrial applications, enabling students to understand emerging career prospects. The interaction enriched their technical awareness, broadened their professional outlook, and strengthened their industry readiness and career preparedness.

# ELECTRICAL AND ELECTRONICS ENGINEERING EVENTS





## SRM TRP ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
SRM Nagar, Near Samayapuram, Trichy – 621 105.

**Department of Electrical and Electronics Engineering & Alumni Cell**

Organize a

**Alumni Tech Talk Series # 1**

**EEE to Tech: The Mind-set Shift That Makes Technology Less Scary**

Date: 29.08.2026 | Time: 11.00 AM | Venue: Online

Who can attend : Electrical and Electronics Engineering Students/Faculty



*Resource Person*  
**S. Arjun**  
(2021-2025 Batch) – Alumni  
Trainee Decision Scientist  
Mu Sigma, Bengaluru  
Karnataka, India.

**Outcomes**  
At the end of this program, Students will be able to

1. Enhance students' understanding of industry expectations and career pathways.
2. Bridge the gap between academic learning and industrial practices.
3. Improve employability skills and professional awareness

Meeting Link: <https://meet.google.com/mym-tmhm-eii>

**Convenor**  
Dr. J. Amudha  
Professor & Head /EEE

**Coordinator(s)**  
Mr. J. Subramanian, AP /EEE  
Dr. R. Sathishkumar, ASP/EEE

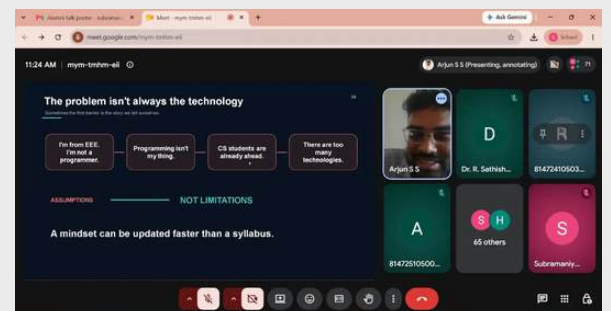
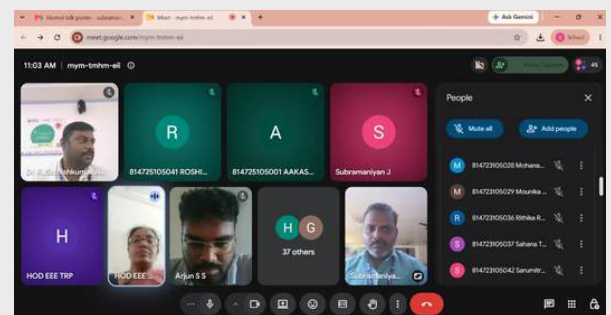
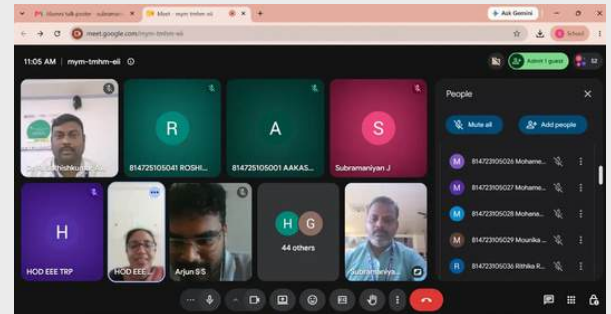










The Department of Electrical and Electronics Engineering (EEE), SRM TRP Engineering College, successfully organized an engaging and knowledge-enriching session with Mr. S. Arjun as the resource person. The session focused on knowledge sharing and professional learning, providing students with valuable insights, practical perspectives, and industry-oriented knowledge. Students gained a better understanding of real-world professional practices, emerging career opportunities, and the technical competencies required to succeed in the evolving industry landscape. The interactive session effectively bridged the gap between academic learning and industry expectations, encouraging students to broaden their professional outlook and strengthen their technical skills. The interaction enriched their technical awareness, enhanced their professional development, and strengthened their industry readiness and career preparedness.



The Department of Computer Science and Engineering, SRM TRP Engineering College, Tiruchirappalli, successfully organized NETXPLORA 2026, an engaging networking event conducted by the ETHERION Club on 14 August 2026. The event provided students with an exciting platform to explore networking concepts, develop technical skills, and strengthen their problem-solving abilities through three engaging challenges: Protocol Pictionary, which encouraged creativity and conceptual understanding; DNS Detective, which focused on decoding clues and exploring the fundamentals of DNS; and Network Command Master, which provided hands-on exposure to practical networking through command-line challenges. The event fostered technical knowledge, creativity, teamwork, communication, logical thinking, and practical networking skills among the participants. The Department sincerely appreciates the valuable guidance and support of the faculty coordinators, T. Suganya, AP/CSE; S. Devapriya, AP/CSE; and C. Lenat Sughirdha, AP/CSE, along with the student coordinators and all participants whose enthusiastic involvement contributed to the successful and memorable execution of NETXPLORA 2026. The event stands as a testament to the CSE Department's commitment to experiential learning, skill development, and collaborative innovation.



The Department of Computer Science and Engineering, SRM TRP Engineering College, proudly congratulates Keerthana J, a student of the 2021–2025 batch, on securing an impressive 20th Rank in Anna University. This remarkable academic achievement reflects her dedication, perseverance, and consistent pursuit of excellence. Her accomplishment brings immense pride to the CSE Department and SRM TRP Engineering College, Tiruchirappalli, and stands as an inspiration to fellow students. The Department extends its heartfelt congratulations to Keerthana and wishes her continued success and excellence in all her future academic and professional endeavours.

The Department of Computer Science and Engineering, SRM TRP Engineering College, Tiruchirappalli, proudly congratulates Ms. K. Safiya Maryam, a student of the 2024–2028 batch, III Year – C Section, on securing an International Internship as an App Development Intern at FUZE, United Arab Emirates (UAE). This remarkable achievement reflects her dedication, technical expertise, and commitment to continuous learning and professional development. The internship provides her with valuable international exposure, industry experience, and an opportunity to enhance her practical skills in the field of application development. The CSE Department is proud of her accomplishment and wishes her continued success throughout this internship journey. May this significant milestone open doors to many more opportunities and achievements in her future career. Heartiest congratulations to Ms. K. Safiya Maryam, and best wishes for a successful and enriching international internship experience.





Mrs.K.Preethi., Department of Artificial Intelligence and Data Science Successfully Participate the 5-day Offline Faculty Upgradation Programme (FUP) on “NextGen Cyber Forensics Tools & Technologies” was jointly organized by NIT Tiruchirappalli and C-DAC, Thiruvananthapuram, from 3–7 August 2026. The programme focused on enhancing faculty skills and research capabilities in the emerging field of Cyber Forensics. The sessions covered Disk Forensics, FinTech Forensics, IoT Forensics, Mobile Device Forensics, and CDR/IPDR Analysis. Participants also gained exposure to Image & Video Forensics and Forensics Data Analytics through case studies and tool demonstrations. The programme provided valuable insights into emerging trends and advanced technologies in cyber forensic investigations. It strengthened participants’ knowledge and capabilities to impart specialized knowledge and guide research efforts in Cyber Forensics.



The Department of Artificial Intelligence and Data Science (AI&DS), SRM TRP Engineering College, is organizing a vibrant Flash Mob and Banner Reveal as part of IMAGINEX '26.

The event is planned for 14 August 2026, from 4:45 PM to 5:00 PM, at the SRM TRP Portico. The flash mob aims to showcase the energy, creativity, teamwork, and enthusiasm of students through an engaging dance performance. The programme will also feature the reveal of the IMAGINEX '26 banner, marking the beginning of the celebrations. The event is designed to create excitement and encourage active student participation and campus spirit. With the theme "One Beat. One Spirit. One SRM TRP," the celebration promises to be energetic, memorable, and unforgettable.



The Department of Artificial Intelligence and Data Science, in association with the AI Nexus Club, organized IMAGENIX '26 – “Imagine the Future”, an Intra-College Innovation Ideathon on 19 August 2026 at SRM TRP Engineering College. The ideathon provided students with a platform to identify real-world problems and transform them into innovative and practical solutions. Students applied design thinking and structured problem-solving approaches to develop impactful ideas within a time-bound environment. The event encouraged teamwork, creativity, collaboration, and effective communication through solution development and pitching. Mentor feedback helped participants refine their ideas and improve the feasibility and impact of their proposed solutions. The initiative successfully fostered a culture of innovation and future-ready thinking, inspiring students to Innovate, Connect, and Inspire.

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#weareSRMTrichy

**Artificial Intelligence and Data Science**  
In Association with  
**Data Mavericks Club**  
Organizes a  
**Webinar**  
on  
**Azure 360°: What You Need to Know About Cloud Management**

Who can attend: AI & DS Third year students

**Resource Person**  
  
**Mrs. Vanitha Thangavelu,**  
QA Specialist,  
Leicester, England, United Kingdom.

Date: 28.08.2026 | Time: 11.30 A.M. to 01.00 P.M. Venue: 5th Floor Seminar Hall Online

**Outcomes**  
At the end of this webinar, participants will be able to:

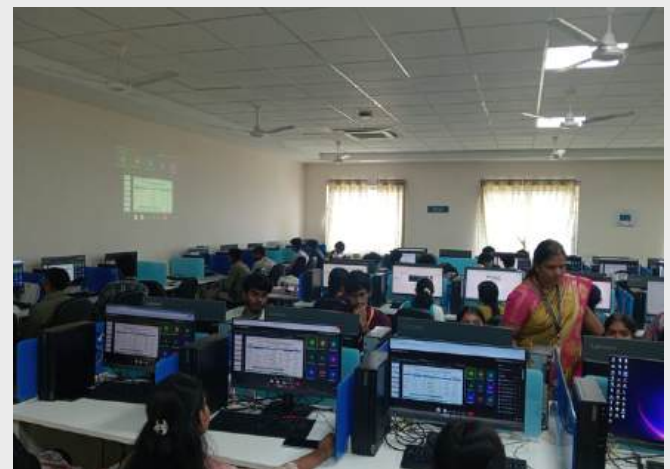
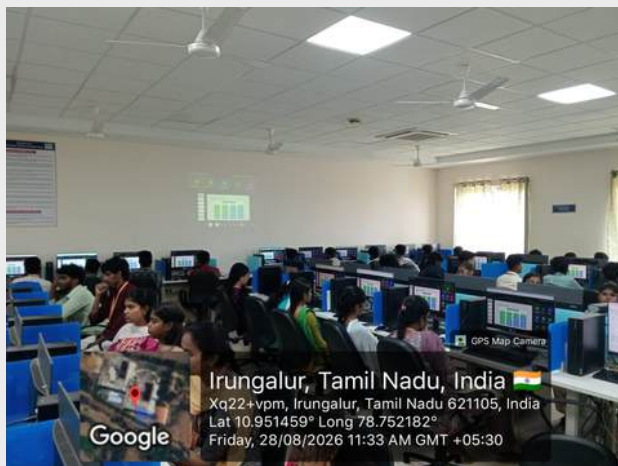
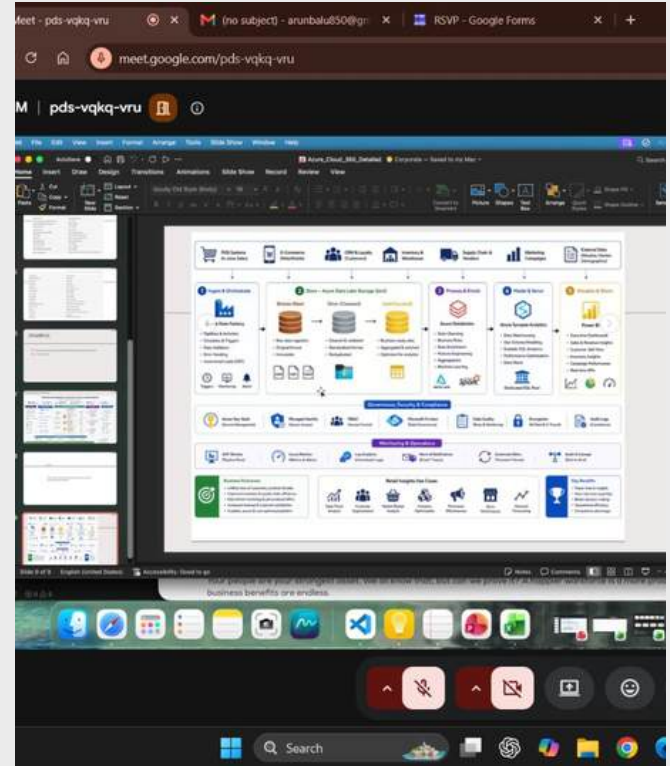
1. Understand the fundamentals of Microsoft Azure and the role of cloud management in modern IT environments.
2. Gain insights into Azure cloud services, resource management, security, scalability, and cost optimization for efficient cloud operations.
3. Explore practical applications of Azure in areas such as data analytics, AI, IoT, application hosting, storage, and enterprise solutions.
4. Enhance cloud management and analytical thinking skills while developing interest in emerging technologies, innovation, and cloud-based solutions.
5. Build awareness of emerging Azure technologies and career opportunities in cloud computing, cloud administration, DevOps, AI, data analytics, and IT infrastructure.

**Convenor**  
Dr. R. PerumalRaja  
Professor and Head/AI&DS

**Coordinator**  
Mrs. S. Jaiini  
Assistant Professor / AI & DS



trp.srmtrichy.edu.in | srm-trp-engineering-college | trichysrmtp



The Department of Artificial Intelligence and Data Science, in association with the Data Mavericks Club, organized Azure 360° – “What You Need to Know About Cloud Management” on 28 August 2026 for III Year AI & DS students at SRM TRP Engineering College. The webinar provided valuable insights into Microsoft Azure, cloud management, enterprise data platforms, and modern cloud-based solutions. Students explored Azure Data Factory, Azure Databricks, Lakehouse architecture, data validation, governance, security, and cost optimization. The session was delivered by Mrs. Vanitha Thangavelu, QA Specialist, Leicester, England, United Kingdom, who shared valuable industry perspectives and practical applications. The webinar enhanced students’ understanding of cloud computing, DevOps, data analytics, AI, IoT, and enterprise solutions, while highlighting emerging career opportunities. The session successfully encouraged students to Innovate, Learn, and Explore the evolving world of cloud technology.



Team VORTEX at NIRAL Thiruvizha Regional Review

Dr. V. Senthilkumar and the IV Year Mechanical Engineering students of the Team VORTEX participated in the NIRAL Thiruvizha Regional Review held at BIT Campus, Tiruchirappalli.

We extend our best wishes to the team for a successful presentation and continued success in the upcoming stages of the competition.

The interaction was highly informative and inspiring, making the session a memorable experience for all the 110+ higher secondary students and accompanying teachers. The participants expressed their happiness and appreciation for the valuable insights shared by the faculty members.



**SMBM MHSS, Dindugul +2 students & teachers had glimpses of TSRM institutions on 6.8.26**



# MECHANICAL ENGINEERING

## INDUSTRIAL VISIT



### Industrial Visit to Ashok Leyland, Hosur

The III Year Mechanical Engineering students of SRM TRPEC visited the Ashok Leyland Learning Centre, Hosur, as part of an industrial exposure programme. The visit provided students with valuable insights into automotive manufacturing processes, industrial practices, and the functioning of the automobile industry.

The programme offered an excellent opportunity for students to connect their academic knowledge with real-world industrial applications and gain practical exposure to the automotive engineering domain.

### Two-Day Industrial Training Faculty Development Programme at Ashok Leyland

Dr. M. Umar, Associate Professor, and Dr. G. Balaji, Associate Professor, Department of Mechanical Engineering, participated in a Two-Day Industrial Training Faculty Development Programme at Ashok Leyland, Hosur – Units 1 & 2, held on 12th and 13th August 2026.

The programme provided valuable exposure to engine assembly and production, lean manufacturing and 5S practices, quality and maintenance, R&D activities, advanced engine technologies, performance testing, production planning, chassis and body assembly, and industry-oriented skill development.

The training offered valuable industrial insights that can be effectively integrated into teaching, student projects, research, and skill development, thereby strengthening the industry–academia connect.

The faculty members sincerely thank the Chairman, Principal, Industry Connect Team, and the Ashok Leyland team for their encouragement, coordination, technical guidance, and support in making the programme a valuable learning experience.





### Industrial Visit to Mettur Thermal Power Station

The II Year Mechanical Engineering students of SRM TRP Engineering College participated in an industrial exposure visit to Mettur Thermal Power Station and Dam, organized by the Industry Connect Department. The visit provided students with valuable practical insights into thermal power generation, plant operations, equipment, and energy conversion processes, bridging the gap between classroom learning and real-world industrial applications.

### NCC Rank Conferment Ceremony

The NCC Rank Conferment Ceremony was conducted at SRM TRP Engineering College, Tiruchirappalli, under 8/1 Coy – 2 TN BN NCC. The ceremony recognized the dedication, discipline, leadership, and commitment of deserving NCC cadets as they received their ranks from the Principal.

The event was graced by the Principal, Vice Principal, Heads of Departments, and faculty members, whose continued encouragement and support contribute significantly to the development of NCC cadets.

The ceremony marked an important milestone in the cadets' journey of leadership, discipline, and service to the nation.

Jai Hind! 🇮🇳





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An AUTONOMOUS Institution  
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**TIRUCHIRAPPALLI**

**COUNSELLING CODE : 3795**



**SRM TRP ENGINEERING COLLEGE**  
**(SRM GROUP)**

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