Faculty Achievement

Academic Year : 2025-2026

Publication

- Dr. K. Elango, Professor & Head published an SCI journal titled, 'Exegetic energy management of fuel cell electric vehicles using Tasmanian devil optimisation and recalling recurrent neural network algorithm' International Journal of Exergy, Vol 7, No 3,2025.
- Dr. G. Madhusudanan, Professor and Dr. S. Padhmanabhaiyappan, Associate Professor published a Scopus journal, 'Enhancing photovoltaic system flexibility: a novel integrated converter with COA optimization approach', Renewable Energy Focus.
- Dr.G.Madhusudanan, Professor and Dr.S.Padhmanbhaiyappan, Associate Professor published an SCI journal titled, Efficient sizing of a battery PV grid-connected system for rapid charging stations of electric vehicles using WOA-MARR-GAN approach, Journal of Energy Storage, August 2025.
- Dr. S.Malathi, Professor published an SCI journal titled, 'Multi-target object detect and classification for cloud-based surveillance in smart internet of things using multi-component attention graph convolutional neural network' Knowledge-Based Systems.
- Ms.S.Vanila, AP (Sel.G) published a SCOPUS journal titled, 'Integrating Arnold Transformation with H.264 Intra Prediction for Compression', High Technology Letters, Vol 31, No.8, 2025.
- Ms.S.Vanila, AP (Sel.G) published a journal titled, 'Scrambling-Driven Optimization framework for H.264 Video Compression', International Research journal on Advanced Engineering and Management, Vol.03, No.08, August 2025.
- Ms.S.Vanila, AP (Sel.G) published a SCI journal titled 'Machine learning based framework for quality prediction in millet flour-infused noodles', Journal of Food Science and Technology. DOI: https://doi.org/10.1007/s13197-025-06388-8.

- Ms.S.Vanila, AP (Sel.G) presented a paper titled 'Scrambling-Driven Optimization framework for H.264 Video Compression', Second International Conference on Management, Science & Technology, RBVRR Women's College Narayanaguda, Hyderabad on 26th and 27th July 2025.
- Ms.S.Vanila, AP (Sel.G) has participated in Faculty Development Program titled 'Nurturing Emotional Intelligence: A Journey from Self Awareness to Conscious Parenting' in Dayananda Sagar University School of Engineering on 8th July 2025.
- Ms. R. Elavarasi, AP(O.G) and Dr. R. Karthik, Professor published a Scopus journal, 'Application of Multi-port High-gain Bidirectional Dc-Dc Converters in Electric Vehicles: A Concise Review, Indian Journal of Technical Education Vol.48, No 2.
- Purusothaman A, PG student and Dr. R. Karthik, Professor presented a paper titled Energy Management and Loss Reduction in HT Sides Using ETAP in 10th International Conference on Engineering Technology and Science (ICETS'26) organized by Muthayammal College of Engineering, Rasipuram on 28th March 2026.

Participation

- Dr.K.Elango, Prof & Head completed the NPTEL course Carbon Accounting and Sustainable Designs in Product Lifecycle Management, July-Oct 2025.
- Dr.K.Elango, Professor and Head and Dr. G. Madhusudanan, Professor have participated in the One Week National Level Online Faculty Development Programme on Indian Knowledge Systems (IKS), organised by the UGC-Malaviya Mission Teacher Training Centre (UGC- MMTTC), Gauhati University and the Internal Quality Assurance Cell of Gauhati University, Guwahati,Assam in association with ipsr solutions limited from 18th March 2026 to 24th March 2026.
- Dr.K.Elango, Professor and Dr.G.Madhusudanan, Professor, have participated in the One Week National Level Online Faculty Development Programme on Outcome Based Education and Application of Generative AI in Teaching and Research jointly organised by the Internal Quality Assurance Cell, Jagannath Barooah University, Assam and the Internal

Quality Assurance Cell and the PG Department of Computer Applications, Marian College, Kuttikkanam Autonomous in association with ipsr solutions limited, from 23rd to 30th April 2026 and has successfully completed all the assessments and secured an A grade

- Dr.S.Malathi, Professor, Ms.S.Vanila, AP(Sel.G), Ms.P.Bency, AP(Sr.G) Ms.R.V.Preetha, AP(Sr.G), Mr.K.Ragul Kumar, AP(O.G), Mr. S. Venkatesh, AP(O.G) and Ms.R.Elavarasi, AP(O.G) participated a six-day Faculty Development Program on 'Prompt Engineering and ChatGPT Utilization'', organized by KKR & KSR Institute of Technology and Sciences from 14th to 19th July 2025.
- Dr. S Malathi, Professor has delivered a lecture on 'AC Machines 'on 28.01.2026 in the five-day faculty Development Program on Basic Electrical and Electronics Engineering at Rajalakshmi Institute of Technology held during 22.01.2026 to 28.01.2026.
- Dr. S Malathi, Professor participated in the AICTE Recognized Faculty Development Programme on Power Quality ad FACTS conducted by Electrical Engineering department from 17th to 21st November 2025 at NITTTR, Chandigarh.
- Ms.S.Vanila, AP (Sel.G) has reviewed papers in the 4Th IEEE International Conference on 'Intelligent and Innovative Technologies in Computing, Electrical and Electronics' at BNMIT Bangaluru during 22nd and 23rd January 2026.
- Ms.S.Vanila, AP (Sel.G) attended the Faculty Development Program on 'Generative AI' held from 4th to 8th August 2025 organized by Brainovision Solutions India Pvt Ltd., hosted by SRM Institute of Science and Technology.
- Ms.S.Vanila, AP (Sel.G) acted as a reviewer for an SCI journal Journal of Food Science and Technology on 23.09.2025.
- Ms.S.Vanila, AP (Sel.G) acted as a reviewer for 2025 IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2025) during 11th to 13th October 2025.

- Ms. S. Vanila, AP (Sel.G) has participated in 'Faculty Development Program on Outcome based Education and WK – PO alignment for New SAR' in K. L. N. College of Engineering from 19.01.2026 to 24.01.2026.
- Ms. S. Vanila, AP (Sel.G) has successfully completed self-paced training course MATLAB onramp and Signal Processing Onramp.
- Ms. S. Vanila, AP (Sel.G) has participated in Six-day Online Faculty Development Program on 'Battery Thermal Management System: Design, Optimization and ML Techniques' from 9th to 14th February 2026 organized by Maharaj Vijayaram Gajapathi Raj College of Engineering.
- Ms.S.Vanila, AP (Sel.G) completed the NPTEL course Electrocardiogram - Interpretation and Application Clinical Practice, Jul-Aug 2025.
- Ms.S.Vanila, AP (Sel.G) participated in Online workshop cum FDP, 'AI/Ml based Controller design and Deployment on Real time platforms' organized by department of Electrical Engineering from 5th November to 9th November 2025.
- Mr. S. Balaji, AP (Sr.G) has successfully completed a One-week Faculty Development Program on 'Advanced Electric Vehicle Design & Intelligent Transportation organized by Pantech e Learning held on 05.01.2026 to 10.01.2026.
- Ms. P. Bency, AP (Sr.G) and Ms. R.V. Preetha, AP (Sr.G) have participated in Five-days Online Faculty Development Program on 'Electric Vehicle Charging and Integration to Grids' organized by Sairam Institute of Technology held from 16.02.2026 to 20.02.2026.
- Ms.P.Bency, AP(Sr.G) and Ms.R.Elavarasai, AP (O.G) completed the NPTEL course Electronic System Design: Hands on Circuits and PCB Design with CAD Software, July -Oct 2025
- Mr.K.Ragul Kumar, AP (O.G) participated in the event titled 'National Workshop on Grid Power Electronics Technology' IIIT, Design & Manufacturing Kancheepuram, Chennai during 19th to 20th September 2025.
- All 13 faculties have completed the Online NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by The

Gandhigram Rural Institute - DTBU, Gandhigram from 22nd to 25th October 2025.

- All 13 faculties from EEE department have successfully participated and completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Emerging Trends in Next Generation Communication: 5G - 6G at M.A.M. College of Engineering and Technology from 3rd to 8th November 2025.
- Dr.K.Elango, Professor and Ms.P.Bency, AP(Sr.G) received NPTEL Believer, Jan-Apr 2026.
- Dr.S.Malathi, Professor and Ms.S.Vanila, AP(Sel.G) received NPTEL Discipline Star, Jan-Apr 2026