



FACULTY ACHIEVEMENTS

2025–2026

Department of Artificial Intelligence and Data Science

Kamaraj College of Engineering and Technology

PATENTS



Advanced Dashboard Touchscreen Device for Vehicles

UK Design | Application No. 6460407 | Registered 28 Jul 2025, Granted 31 Jul 2025

Dr. P. Praveen Kumar | **Granted**



IoT-enabled Electric Vehicle Charging Stations with Solar Integration

Design Patent | Integrates IoT and solar technologies for EV charging efficiency

Dr. S. Balaji | **Published**



A Machine Learning Framework for Real-Time Patient Risk Stratification Using EHR and IoT Data

Design Patent | Leverages ML and IoT for patient monitoring and healthcare analytics

Mrs. J. Mary Varsha | **Published**



Aqua Scan

Utility Patent | Application No. R20254070201 | Filed 29 Sep 2025 (with III ADS students)

Mrs. S. Nithya • Mrs. K. Rajalakshmi • Dr. S. Balaji | **Filed**

2025–2026

BOOK PUBLISHED



Data Structures Made Easy

Published by VRB Publishers Pvt. Ltd., Chennai

Dr. R. Aghila • Mrs. S. Nithya • Mrs. N. Gajalakshmi • Dr. P. Praveen Kumar | Published

2025–2026

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Domain Genie

Application No. 6460407 | Registered 26 Feb 2025, Granted 26 May 2025 (with III ADS student M. Nameetha)

Dr. R. Aghila • Mrs. S. Nithya • Mrs. K. Rajalakshmi • Mrs. N. Gajalakshmi | Granted

Instructional System Design for Ethical Hacking

Reg. No. LD-20260181600 | Dated 29 Jan 2026

Dr. R. Ramya • Mrs. K. Muthulakshmi | Granted

Python Linked List: One Shot Comparison

Reg. No. LD-20260181598 | Dated 29 Jan 2026

Dr. R. Ramya • Mrs. K. Muthulakshmi | Granted

RESEARCH PUBLICATIONS & PAPER PRESENTATIONS



IoT Driven Smart Grid Monitoring with Enhanced Energy Routing and Advanced Encryption Techniques

Elsevier — Ain Shams Engineering Journal | July 2025

Dr. S. Balaji | **Published**



Modelling Kolam Symmetry and Structure Using Computational Geometry Techniques

Int Conf. on Next Generation Adaptive Research & Innovations, NIT Patna | March 2026

Dr. R. Ramya | **Paper Presented**



Resource-Efficient Image Classification Using Frozen ResNet-18 Features and Linear SVM

Int Conf. on Next Generation Adaptive Research & Innovations, NIT Patna | March 2026

Mrs. S. Nithya & Team | **Paper Presented**

2025–2026

CERTIFICATIONS & PROGRAMS



Oracle Cloud Infrastructure 2025 — AI Foundations Associate

OCI fundamentals, AI/ML core concepts, Generative AI and Responsible AI principles

Dr. R. Ramya | **Certified**



Centre for Engineering Education Excellence (CEEE) Program 2025

INAE & Infosys Foundation with IITs and AICTE | Fund ₹50,000 | 16–27 June 2025, IIT Madras

Mrs. S. Nithya | **Shortlisted**



CEEE Program — Completed as Mentee

Regional Centre, IIT Madras

Mrs. S. Nithya | **Completed**

2025–2026

AWARDS & RECOGNITION



NPTEL Discipline Star Award

NPTEL Star Event, IIT Madras

Mrs. K. Muthulakshmi | **Awarded**



2025 Instructor Excellence Award — CISCO Networking Academy

Recognised as a top instructor for outstanding student feedback | March 2026

Mrs. K. Muthulakshmi | **Awarded**



CISCO Appreciation — 10 Years of Dedicated Service

SPOC and CCNA Instructor, Cisco Networking Academy

Mrs. K. Muthulakshmi | **Recognised**



CISCO — India Leadership Summit 2026

CISCO Systems, Bangalore | February 2026

Mrs. K. Muthulakshmi | **Attended**

2025–2026

ROLES — SESSION CHAIR / JURY / REVIEWER



Session Chair — 16th International IEEE ICCNT 2025

IIT Indore, Madhya Pradesh | 07 July 2025

Dr. R. Ramya | Session Chair



Jury — Project Expo

Renganayagi Varatharaj College of Engineering, Sattur | 28 Feb 2026

Dr. R. Ramya | Jury



Peer Reviewer — Springer Nature Journal

Signal, Image and Video Processing

Dr. R. Aghila | Reviewer

CONFERENCE ROLES — PAPER REVIEWERS



Reviewer — ICICSA 2025

NIT Silchar | Reviewed research papers on emerging trends in intelligent computing

Dr. R. Ramya | Reviewer



Reviewer — 12th International Conference ICCSP 2026

Adhiparasakthi Engineering College, Melmaruvathur | 20–22 April 2026

Mrs. S. Nithya | Reviewer

2025–2026

RESOURCE PERSON / GUEST LECTURES



Soft Skill Training Session

Trio-S Software Consultancy Pvt. Ltd., Virudhunagar | 06 September 2025

Dr. P. Praveen Kumar | Resource Person



One-Day Workshop — Smart Data Handling

PG & Research Dept. of Commerce, Vivekananda College, Tiruvedakam | 29 September 2025

Dr. P. Praveen Kumar | Resource Person



5-Day Online FDP — Transforming Teaching–Learning through Outcome-Based Education

Study World College of Engineering | 24 December 2025

Dr. R. Ramya | Resource Person

RESOURCE PERSON / GUEST LECTURES (cont.)



Seminar — Built to Trust: Engineering Intelligent AI Systems

Fatima Michael College of Engineering and Technology (IIC) | 05 February 2026

Mrs. N. Gajalakshmi | Resource Person



Guest Lecture — From Visualization to Intelligence: AI-Driven Analytics with Tableau

Dept. of AI&DS, Velammal College of Engineering and Technology | 16 February 2026

Mrs. S. Nithya | Resource Person



Guest Lecture — Generative AI and Foundation Models: Beyond Traditional Deep Learning

Bharath Niketan Engineering College | February 2026

Mrs. S. Nithya • Mrs. K. Rajalakshmi | Resource Person

RESOURCE PERSON / GUEST LECTURES (cont.)



Online Guest Lecture — Data Exploration and Visualization

DMI Engineering College | February 2026

Mrs. J. Mary Varsha | Resource Person



Online Guest Lecture — Finite vs Infinite Automata: Understanding the Limits of Computing

Mahakavi Bharathiyar College of Engineering and Technology | February 2026

Dr. R. Aghila • Mrs. A. Nagalakshmi | Resource Person



Online Guest Lecture — Generative AI in LLMs

St. Mother Theresa Engineering College | February 2026

Mrs. J. Mary Varsha | Resource Person

RESOURCE PERSON / GUEST LECTURES (cont.)



Online Guest Lecture — Understanding Data through Statistical Methods

DMI Engineering College | February 2026

Mrs. J. Mary Varsha | Resource Person



Guest Lecture — From Circuit to Code: Data Structures and Python for Modern EEE Engineers

Anna University, Madurai Regional Campus | 16 March 2026

Dr. R. Aghila | Resource Person



Guest Lecture — Artificial Intelligence

Thamirabharani Engineering College | March 2026

Mrs. S. Devi Chithra | Resource Person

RESOURCE PERSON / GUEST LECTURES (cont.)



Guest Lecture — UI and UX

Thamirabharani Engineering College | March 2026

Mrs. S. Mohanappriya | Resource Person



Guest Lecture — Computer Networks

J.P. College of Arts and Science | March 2026

Mrs. K. Muthulakshmi | Resource Person



Guest Lecture — Computing Insights and Concepts

Fatima Michael College of Engineering and Technology | March 2026

Mrs. K. Muthulakshmi | Resource Person

RESOURCE PERSON / GUEST LECTURES (cont.)



Guest Lecture — Data Visualization & Tableau with AI

Dept. of AI&DS, Hindusthan College of Technology, Salem | April 2026

Mrs. S. Nithya | Resource Person



5-Day National PDP — Generative AI Tools for Academic Writing, Patents and Publications

Social Science Researchers Association | May 2026

Mrs. K. Rajalakshmi | Resource Person

KEYNOTE SPEAKER



Keynote Speaker — ICALDE 2026

International Conference on Advanced Learning, Data Engineering and Emerging Technologies

Dr. R. Ramya | **Keynote Speaker**

2025–2026