



FACULTY ACHIEVEMENTS

2024–2025

Department of Artificial Intelligence and Data Science

Kamaraj College of Engineering and Technology

NAAN MUDHALVAN — NIRAL THIRUVIZHA



Dr. R. Aghila

Mentored students and received a grant of ₹10,000 for the project entitled “ResolveAI: Grievance Navigator” at the Naan Mudhalvan Massive Upskilling Programme — Niral Thiruvizha.

January 2025

JOURNAL PUBLICATIONS



Intrusion Detection System for Smart Grids Based on Radial Basis Function Networks

Computer Integrated Manufacturing Systems, Vol. 3, No. 8 | ISSN: 1006-5911

Dr. R. Aghila | Published



Deep Learning-Based Algorithm for Prediction of Heart Disease using Electrocardiogram

INFOCOMP Journal of Computer Science | ISSN: 1807-4545 | Vol. 23, Issue No. 1

Dr. Praveen Kumar P | Published



Enhanced Measurement of Epicardial Fat Segmentation and Severity Classification using Modified U-Net and FOA-Guided XGBoost

Measurement Science Review, Vol. 25, No. 2, pp. 93–99, June 2025 | doi: 10.2478/msr-2025-0012

Mrs. K. Rajalakshmi | Published

2024–2025

PATENTS PUBLISHED



Next-Gen Campus Commutes: Transforming College Transportation with Real-Time Bus Tracking Technology

Application No. / CBR No. 202441051618

Dr. Praveen Kumar P | **Published**



AI-Powered Healthcare Analytics Platform

Application No. / CBR No. 202541001307

Mrs. N. Gajalakshmi • Dr. R. Aghila | **Published**

2024–2025

PATENTS PUBLISHED / GRANTED



Machine Learning Algorithms for Adaptive Consensus Mechanisms in Blockchain Networks

Application No. / CBR No. 202541000000

Ms. A. Nagalakshmi • Ms. N. Gajalakshmi ,Mr. P. G. Siva Sharma
Karthick • Mrs. K. Rajalakshmi • Ms. S. Nithya | **Published**



Food Rover

Application No. / CBR No. 453955001

Mrs. S. Nithya | **Granted**

Novel Robotic Design for Agri Bot

Application No. / CBR No. 430824001

Mrs. S. Nithya | **Granted**

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Dr. R. Aghila



Mrs. S.Nithya



Mrs. A. Nagalakshmi



Mrs. N. Gajalakshmi



Mrs. K. Rajalakshmi



Mrs. V.Sangeetha

Customized Prosthetic Arm for Enhanced Quality of Life in Amputees

Diary No. 33007/2024-CO/L

Dr. R. Aghila • Mrs. V. Sangeetha | Filed

A Manual for Interactive Web Solution Lab

Diary No. 31426/2024-CO/L

Mrs. S.Nithya | Granted

Domain Genie

Diary No. 6625/2025-CO/L

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

Fundamentals of Cryptography: A Laboratory Perspective

Diary No. 2886/2025-CO/L

Mrs. S.Nithya, Mrs. A. Nagalakshmi, Mrs. N. Gajalakshmi | Filed

2024–2025

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Dr. R. Aghila



Mrs. Indhuja R



Dr. P. Praveen Kumar



Mrs. Indumathi K



Mrs. Nithya S

Quantum Key Distribution: Shaping the Future of Secure Communication

Diary No. 22456/2024-CO/L

Mrs. S. Nithya | Filed

Image Analytics in Computer Vision

Diary No. 21171/2024-CO/L

Mrs. Indhuja R • Mrs. Indumathi K | Filed

AI-Based Head Counting System

Diary No. 25815/2024-CO/L

Dr. R. Aghila • Dr. Praveen Kumar P, Mrs. Indumathi K, Mrs. Indhuja R | Filed

2024–2025

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Mrs. V. Sangeetha

Enhanced Security Door Frame with Integrated Ultrasonic People Counting

Diary No. 33590/2024-CO/L

Dr. R. Aghila • Mrs. V. Sangeetha | Filed

2024–2025

BOOK CHAPTERS PUBLISHED



Dr. R. Aghila



Ms. A. Nagalakshmi

Tech: Air Quality Monitoring Analysis — Enhancing Sustainable Management of Waste Dump Sites with Smart Drones and Geo Spatial

Scrivener Publishing | ISBN: 9781394270361

Dr. R. Aghila | **Published**

Secular Values

Human Values and Ethics | Publisher: Zenodo | ISBN: 9788198176028

Ms. A. Nagalakshmi | **Published**

2024–2025

KEYNOTE SPEAKERS / SESSION CHAIRS



Dr. R. Aghila
Session Chair



Mrs. K. Rajalakshmi
Keynote Speaker



Mrs. N. Gajalakshmi
Keynote Speaker

Session Chair — 8th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2025)

Kuala Lumpur, Malaysia | 22nd & 23rd May 2025

Dr. R. Aghila | **International**

Keynote Speaker & Session Chair — ICMDRSE-2025

Kuala Lumpur, Malaysia | 22nd & 23rd May 2025

Mrs. K. Rajalakshmi • **Mrs. N. Gajalakshmi** | **International**

May 2025



Dr. Praveen Kumar P

KEYNOTE SPEAKER

Dr. P. Praveen Kumar

Delivered a keynote talk on the topic "Unlocking the Future of Data Security: Attribute Based Encryption in Cloud Computing" at Thomas College, Thrissur, Kerala.

February 2025



AWS Certified

Mrs . S. Nithya

AWS Certified Cloud Practitioner – Gained expertise in cloud concepts, security, pricing, and core AWS services, with a strong focus on continuously enhancing skills to apply cloud technologies in real-world projects.

February 2025

TNSCST SPONSORED INTERNATIONAL CONFERENCE



Dr. R. Aghila

Organizer

International Conference on Advancing Technologies and Innovative Breakthroughs in Computing and Communication

Organized on 05–06 March 2025

Dr. R. Aghila & Team | Sponsored by TNSCST | Grant: ₹20,000

March 2025



KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Velakulam - 625 701 (Near VIRUDHUNAGAR).

Congratulations !



Ms.Nithya
AP/ADS

has been selected for INAE -CEEE
Mentorship Program at IIT Madras.
She will receive Rs.50000 for the one month
hybrid programme.

 /kamarajeng  www.kamarajengg.edu.in

Mentorship Program –IIT Madras

Mrs . S. Nithya has been selected for INAE-CEEE Mentorship Program at IIT Madras. She receive Rs.50000 for the one month hybrid programme.

June 2025