Faculty Profile

Dr. Hemalatha R, M.E., Ph.D
Assistant Professor (OG) - EEE

HIGHLIGHTS:

- Number of Journal Publications: 11
- H-Index: 2
- Project Funding Received: 1
- Patents Published: 3
- Patents Granted: 1

PROFESSIONAL LINKS:

- Scopus ID: 57935149400
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57935149400
- Google Scholar ID: https://scholar.google.com/citations?hl=en&user=ifF2CDYAAAAJ
- Anna University Faculty ID: 6213150
- AICTE Faculty ID: 1-10873923071
- Anna University Supervisor ID: NA
- LinkedIn: www.linkedin.com/in/hemalatha-r-08358446

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 10 Years
- Industrial Experience: 2 Years

INTERNATIONAL EXPOSURE: Nil

AREA OF SPECIALIZATION:

- IoT

- Embedded Systems

- Power and Energy

Ph.Ds AWARDED WITH DETAILS: Nil

S:No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time

Ph.Ds GUIDING: Nil

- **Full Time Scholars:**
- **Part Time Scholars :**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- Applied for funding in **Start-Up Research Grant** (SRG) under Anusandhan National Research Foundation, **IoT based technologies** for the product **3D Printing Drones.**

- Applied for funding in **Core Research Grant** (CRG) to research under cyber-physical systems, Block chain, Cognitive computing, Cloud computing, AI & ML methodology, **Maximum Power point Tracking by ANN under Conditions of Uniform Irradiance and Partial Shading**.

- Applied for ATAL FDP funding on **Renewable Energy Resources Artificial Intelligence and Machine Learning**

- **Energy management and Monitoring system for Electric Vehicle Utilizing IoT** TNSCST.

PATENTS PUBLISHED/GRANTED:

- Automated Hybrid Electric Storage System for Smart Car Manufacturing Unit (202441021552)

- Portable Nan-Grids Solar Power Supply System (202341050317)

- A Novel IOT – Based Multilevel Head Food Extrusion Utility System (202341011107)

COURSES CERTIFIED:

- An introduction to programming the IoT

- IoT Devices

- Introduction to IoT and Embedded Systems

- Introduction to python programming
- Purdue Bright space: Semiconductor fabrication

ACHIEVEMENTS AND AWARDS:

- Received best Facilitator award from Veltech University, Chennai.
- Received best Faculty award for Event Administration from Kongunadu College of Engineering and Technology, Trichy.
- Best performer award from ISSOJET Burner Private Ltd., Hosur.

SPECIAL SESSIONS DELIVERED:

- Delivered a Guest Lecture on "Electric Drives and Control" at Sri Shanmugha College of Engineering and Technology, Sankari on 30.10.2021.
- Delivered a Lecture on "Introduction to IOT" at K.S.R. College of Engineering, Thriuchengode on 23.03.2022.
- Delivered a Lecture on "Signals and Systems" at Er. Perumal Manimekalai Enigneering College, Hosur on 30.08.2022.
- Delivered a Lecture on "Kirchoffs law and its applications, Mesh Analysis and Nodal Analysis" at K.S.R. College of Engineering, Tiruchengode on 27.11.2022.
- Delivered a Lecture on "Power Quality Phenomena and Disturbances at Adhiyamaan College of Engineering and Technology, Hosur on 29.01.2023.
- Delivered a Lecture on "Application of RTOS", at Narasus Sarathy Institute of Technology, Salem on 07.03.2023.
- Delivered a Lecture on "Digital Signal Processing" at Al-Ammen Engineering College, Erode on 07.06.2023.
- Delivered a Lecture in one day workshop titled "Design of Power Converters for Renewable Energy Systems" at Sriram engineering College, Chennai 27.04.2024.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

Conferences:

- Presented the Paper **Vehicle Accident Detection and Locating Using GSM and GPS,** in International Conference on Communication, Computing and Internet of Things, IC3IoT 2024.
- Presented the paper **Triple's, Helmet, Number Plate Design on Real-Time Information System** in International Conference on Automation, Signal Processing, Instrumentation and Control iCASIC, 2024.

- Presented the Paper **Reliability analysis of Distribution Systems with solar-Based DG Capacitor Integration Using the Water Optimization Algorithm** in International Conference on Power Energy Secure Smart ICPEST,2024

- Presented the Paper **IoT Based Automatic Breaking Control System for EV Vehicle and Monitoring System,** 2nd International Conference on Computer, Communication and Control, IC4, 2024

- Presented the Paper **Maximum PowerPoint Tracking by ANN under Conditions of Uniform Irradiance and Partial Shading,** 8th IEEE International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM, 2023.

- Presented the Paper **Design of Virtual Brain using IoT,** International Conference on Recent Trends in Data Sciencs and its Applications, ICRTDA, 2023.

Workshops/Seminars/FDP :

- Attended six Days Online Faculty Development Programme on **Building a Sustainable Future: The Role of Renewable Energy in EV Revolution** organized by Panimalar Engineering College from 23.12.2024 to 28.12.2024.

- Participated in the Five Days - Online Faculty Development Program on **Exploring the Frontiers of Artificial Intelligence: Theory, Application & Ethics** during 8th - 12th July, 2024

- Attended Five days FDP on **Sustainable Lighting Design in Modern Industry Dialux Evo** from 31.01.24 to 04.02.24.

- Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on **Electric Vehicles: Technological Innovations and Market Trends** at **Saveetha Engineering College** from 02/12/2024 to 07/12/2024.

- Attended six Days Online Faculty Development Programme on **Opportunities and Challenges in Integrating Renewable Energy in EV Charging Infrastructure** organized by Kongunadu College of Engineering and Technology from 24.06.2024 to 29.06.2024.

- Attended six Days Online International Faculty Development Programme on **Harnessing Artificial Intelligence for Healthcare Excellence : Innovations, Insights and Impacts** organized by Saveetha Engineering College from 24.07.2024 to 29.07.2024.

- Particiapted in IEI Sponsered All India Workshop on **An Overview of the Present and Past Outlook of Electric Vechiles in India Approaches and Perspect** Organized by saveetha Engineering College associated on 05.11.24 and 06.11.24.

- Attended Seminar on Energy security in the age of **Energy Transistion: Balancing Reliability and Sustainability** Organized by saveetha Engineering College associated with IEI on 14.12.23.
- Attended One Week FDP on **Advanced Green computing Technology in Healthcare** held on 26.12.22 to 30.12.22.

PROFESSIONAL MEMBERSHIPS:

- IETE Corp Life Member -The Institution of Electronics & Telecommunication Engineers (Membership no.AM-503295)

OTHER DETAILS (If any):