Faculty Profile

Dr. T. Merlin Inbamalar , M.E., Ph.D
Associate Professor & HoD – EIE

HIGHLIGHTS:

- Number of Journal Publications: 06
- H-Index:01
- Project Funding Received: 3 Lakhs
- Patents Published: 04
- Patents Granted: NIL

PROFESSIONAL LINKS:

- Scopus ID: 56167883600
- Scopus Link: https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=56167883600&zone=
- Google Scholar ID: https://scholar.google.com/citations?hl=en&user=qizgRaUAAAAJ
- Anna University Faculty ID: 2122051
- AICTE Faculty ID: 1-477784563
- Anna University Supervisor ID: NIL
- LinkedIn: https://in.linkedin.com/in/merlin-inbamalar-503065267

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 17 years
- Industrial Experience: NIL

INTERNATIONAL EXPOSURE: NIL

AREA OF SPECIALIZATION:

- Image Processing

- Biomedical Instrumentation

- Virtual Instrumentation

- Industrial Instrumentation

- Electronic Instrumentation

Ph.Ds AWARDED WITH DETAILS: NIL

Ph.Ds GUIDING:

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

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- Received Rs. 3,71,667/- from AICTE for conducting STTP on "Sensor Interfacing and Controller Implementation in Engineering Systems from November 2020 to February 2021.
- Supervised 20 Batches in UG project. In this, 3 projects received Rs. 10,000/- each from TNSCST.

PATENTS PUBLISHED:

- FABRICATION OF PAPER BASED MICROFLUIDIC DEVICE FOR LIPID PROFILE ANALYSIS, 24/12/2021, Dr. S. Praveen Kumar, Ms. K. Anitha, Dr. T. Aravind, Dr. S. Srigitha Nath, **Ms. T. Merlin Inbamalar.**
- AUTOMATED AIR QUALITY MONITORING SYSTEM IN REAL TIME CABIN ENVIRONMENT AND ENHANCED DRIVER HEALTH, 06/06/2023, **T. Merlin Inbamalar**, Dr. A. Manonmani, Dr. V. Anusha Rani, M. Kalpana, Padma.
- IOT BASED MONITORING SYSTEM FOR & NBSP; COAL MINE USING ARDUINO, 19/07/2024, Dr. A. R. Kalaiarasi, **Dr. T. Merlin Inbamalar**, Dr. Yuvaraj Padmanaban, M. Prabakaran, M. Thirumalai, A. Anjalin Jayaprabha.
- REAL-TIME MULTIMODAL EMOTION RECOGNITION SYSTEM USING DEEP LEARNING, 03/01/2025, **Dr. T. Merlin Inbamalar**, Dr. G. Venkatesan.
- A METHOD FOR EFFICIENT DETECTION AND SEGMENTATION OF SPINE TUMOR USING DISCRETE PARTICLE SWARM OPTIMIZATION AND GLCM, 10/01/2025, **Dr. T. Merlin Inbamalar**, Dr. G. Venkatesan.

COURSES CERTIFIED:

- Certified by IUCEE in the International Engineering Educator Certification Program (IIEECP)

- Completed "e – Learning Programme (e-LP) in Student Counselling in the year 2020

- Completed Faculty Development Program on Teaching Learning Centre by IIT Madras in June 2018.

- Completed Hands on training on LATEX in June 2017.

- Completed Course on Educational Technology for Engineers Teachers by IIT Bombay from January 2016 to March 2016.

- Completed Course on DCS and PLC Overview by Yokogawa in March 2016.

- Completed Online Course on Technical Communication for Scientists and Engineers by IIT Bombay from October 2015 to November 2015.

ACHIEVEMENTS AND AWARDS:

- Received the award **"Leadership in Academia World"** on 4th September 2024 from Tmt. Kanimozhi Karunanidhi, Member of parliament.
- Received "Teacher of the Year" for the recognition of outstanding contributions to academic achievement in getting project grant for STTP in the year 2020-2021.

SPECIAL SESSIONS DELIVERED: NIL

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- T. Merlin Inbamalar "Detection of Diabetic Retinopathy by Image Processing", National Conference in Information and Communication Technology
- "Self-Tuning of PID Controller using Pattern Recognition by Tuning" National Conference in Instrumentation, Electrical and Electronics Engineering
- "Encapsulated and Unified ATM using SQL DB" International Conference in Instrumentation, Electrical and Electronics Engineering
- "Crop Field Monitoring and Smart Irrigation using IOT" International Conference in Instrumentation, Electrical and Electronics Engineering
- "Research Review on Image Segmentation and extraction of Fetal ECG from Abdominal Recordings" International Conference in Smart Structures and Systems
- "A Survey on Various Soft Computing Based Segmentation and Analysis of Human Spine" International Conference in Smart Structures and Systems
- "Analysis of Spine Tumor using Segmentation and Feature Extraction" International Conference in Smart Structures and Systems
- "Social Distancing Detector using AR", International Conference in Civil Engineering
- "Identification and Classification of Brain Tumor MRI Images with Convolutional Neural Network" International Conference on Advances in Science, Humanities and Technology
- Attended Workshop on **High Impact Teaching Skills** by Wipro Mission 10X in 2011
- Attended FDP on **Recent Research Areas in Communication and Networking** in Veltech Multitech Engineering College
- Attended Seminar on **MATLAB and Simulink for Engineering Education** in MathWorks
- Attended Seminar on **Nano Electronics** in Science City
- Attended Seminar on **Siemens Education Day** in Siemens and VI Microsyatems
- Attended Seminar on **Academic Conclave** in National Instruments (2013)
- Attended Workshop on **Signals and Systems** in ISTE **(2014)**
- Organized in FDP on **LabVIEW (2014)**
- Attended Seminar on **Research in Management, Engineering and Science – Best Practices** (2015)
- Attended Course on **Technical Communication for Scientists and Engineers** in IIT Bombay (2015)
- Organized Seminar on **Recent Trends in Controller Design and System Identification** (2015)
- Attended Course on **DCS and PLC Overview** in YOKOGAWA (2016)
- Attended Course on **Educational Technology for Engineers Teachers** in IIT Bombay (2016)

- Attended AICTE Recognized Short term course on **Outcome Based Education through ICT** in National Institute of Technical Teachers Training and Research, Chandigarh (2018)
- Organized National Seminar on **Control Strategy Prediction between Conventional and Intelligent Controller** in DST SERB (2018)
- Organized FDP on **Industrial Automation using LabVIEW** in 2018
- Attended workshop on **PLC, SCADA, DCS** in 2019
- Certified **e-Learning Programme** in **Student Counselling** (2020)
- Attended in Attended 5 day FDP on **Inculcating Human Value in Technical Education** by AICTE (2022)
- Attended One Week Faculty Development Program on "Research Trends in AI Innovation and Solutions for Contemporary Challenges", conducted by Saveetha Engineering College.

PROFESSIONAL MEMBERSHIPS:

- **International Society of Automation (ISA) ID – 000033707637**