

FACULTY VITAE

Name – Rama S T

Education –

M.E., Applied Electronics, Sathyabama University, Chennai, Tamil Nadu, 2010.

B.E., Electrical and Electronics Engineering, SRM Engineering College, Kattankulathur, University of Madras, 1999.

Academic experience –

Dr. M.G.R. Educational and Research Institute, Chennai, Assistant Professor from 2010 - Present
Meenakshi Sundararajan Engineering College, Chennai, Lecturer from 2005 to 2006 and from 2007 to 2008.

Non-academic experience –

Worked as a Production Engineer in Frontline Electronics Pvt Ltd, Salem from 01.05.2000 to 01.05.2002.

Certifications or professional registrations –

National Institute of Technical Teachers Training and Research (NITTR) Certification in Modeling and Simulation using MATLAB, 2020.

National Institute of Technical Teachers Training and Research (NITTR) Certification in Nanomaterials and Devices, 2020.

Current membership in professional organizations –

IEEE (Institute of Electrical and Electronics Engineers), IAENG (International Association of Engineers)

Honors and awards-

Received CVR JC Star Coauthor award in 2023.

Received Dr. A. P. J. Abdul Kalam Research Publication award on 11.08.2021.

Received Thiruvalluvar award for Literary on 11.08.2021.

Meritorious Achievement award for event management in 2018-2019 in VISION 2020 Achievement Award.

Appreciation for Organizing and Executing the events during 2019-2020

Received 100% Department Events completion Awards.

Received Appreciation Certificate for organizing Alumni Conclave.

Service activities (within and outside of the institution)

Accreditation Board for Engineering and Technology (ABET) Coordinator

National Assessment and Accreditation Council (NAAC) Coordinator

National Board of Accreditation (NBA) Coordinator - Criteria 2,4 and 9 In-charge

Association Convener-Organized various International Conferences & Webinars, FDP's, etc.

Ministry of Micro, Small & Medium Enterprises (MSME) Coordinator

Board of Studies member

B. Tech & M. Tech Course Syllabus Framing Committee member, M. Tech Curriculum Coordinator

Designed and Conducted Labview Course Module for IV-year Students.

Counseled and motivated Students to pursue higher Studies, to participate in Project competitions, Paper presentations, interviews and to apply for funding Organizations like MSME, Toycathon, Hackathon, etc.

Initiated and organizer of MoU between Dr. M. G. R Educational and Research Institute and IPLON Pvt Ltd, Germany on 15.02.2023 and successful placement of 3 M. Tech Students.

Conducted Theory Classes and Hands-on Training (ITEC) for 8 International Students on Process Control.

Briefly list the most important publications and presentations from the past five years –

Publications- (8)

Rama, S.T., Rajini, V. (2024). Performance analysis of induction motor drive system using Alternate arm Converter and Modular Multilevel Converter- A comparison, *International Journal of Intelligent Systems and Applications in Engineering*, ISSN 2147-6799 - IJISAE, 2024, 12(10s), 83–97.

Rama, S.T., Heeravathi, S, Ragul, R.(2023), Intelligent Smart-Watch for Enhanced Cardiovascular Health Management, 5th International Conference on Advances in AI for Biomedical Instrumentation Electronics & Computing (ICABEC- 2023), Delhi.

Rama, S.T., Rajini, V. (2023). Optimization of Switching Control and Microgrid Energy Management System with Alternate Arm Converter Based on Bacterial Foraging Algorithm, *International Transactions on Electrical Energy Systems*, Vol 2023, Wiley-Hindawi. <https://doi.org/10.1155/2023/5585420> , (Scopus, WoS, SCIE indexed).

S.T. Rama, (2023), "An intelligent system to detect faults and condition monitoring in transformers", *International Journal of Electronic Devices and Networking*, Vol. 4, no.1, pp.37-40.

S.T. Rama, (2023), "Automatic power factor correction for micro-scale industry", *International Journal of Research in Advanced Electronics Engineering*, Vol. 4, no. 1, pp.01-03.

Rama, S.T., Rajini, V. (2022). Mathematical Model of Alternate Arm Converter. *ICDSMLA 2020. Lecture Notes in Electrical Engineering*, vol 783. Springer, Singapore. https://doi.org/10.1007/978-981-16-3690-5_141.

Books Published – (4)

Dr. K. Sujatha, S. T. Rama, S. P. Suresh Raj, "Advanced Training Hands on Lab Manuals", Charulatha Publications, 2019.

S.T. Rama, Dr. E. Sheeba Percis, Dr. A. Nalini, S. Bhuvaneshwari, "Handbook on Standalone on Renewable Energy Systems", Research India Publications, 2018.

Briefly list the most recent professional development activities –

Participated in ten days FDP organized by NIT, Warangal in collaboration with Dr. M. G. R. Educational and Research Institute on "Designing chips with low power artificial intelligence" from 22.04.2024 to 01.05.2024.

Participated in six days FDP on "VLSI Design" organized by The Department of ECE, Dr. M. G. R. Educational and Research Institute from 18.12.2023 to 23.12.2023.

Participated in Guest lecture on Pursuing Excellence: Unleashing the power of Quality in Teaching & Learning" organized by the Internal Quality Assurance Cell, Dr. M. G. R. Educational and Research Institute on 22.12.2023.

Participated in Guest lecture on "Teaching for Tomorrow: Embracing a Research- Oriented Approach" organized by The Internal Quality Assurance Cell, Dr. M. G. R. Educational and Research Institute on 18.12.2023.

Participated in five days FDP on "Artificial Intelligence Techniques for Real Time Applications" organized by Narayanaguru College of Engineering, Kanyakumari from 11.12.2023 to 15.12.2023.

Participated in the Seminar on "Unlocking Innovation: Intellectual Property Rights Demystified" organized by The Internal Quality Assurance Cell, Dr. M. G. R. Educational and Research Institute on 14.12.2023.

Participated in "Upcoming Trends in Wearable Electronics and Internet of Things (IoT)" organized by NITTTR, Chennai on 15.10.2022.