

FACULTY VITAE

Name – Senthil Kumar K

Education –

Ph. D., Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, India, 2013.

M.E., Applied Electronics, Dr. M.G.R Engineering College, University of Madras, 2001.

B.E., Electrical & Electronics Engineering, Arunai Engineering College, University of Madras, Thiruvannamalai, 1999.

Academic experience –

Dr. M.G.R. Educational and Research Institute, Chennai, Professor - ECE Dept. from 2000 - Present

Dr. M.G.R. Educational and Research Institute, Chennai, Joint Registrar - Part Time Courses, and
Joint Registrar - Quality System & Project Management from 2021 – Present

Non-academic experience – NIL

Certifications or professional registrations-

Qualified in “Foundation Course as per ISO 21001:2018 (Management Systems for Educational Organizations)”, conducted by COAE International during January 2021.

Qualified in “Auditor / Lead Auditor Training Course on Occupational Health and Safety Management Systems based on ISO 45001:2018”, held from 13.04.2020 to 17.04.2020, conducted by TUV SUD South Asia, Chennai.

Qualified in "Auditor/Lead Auditor Training Course on Quality Management System Based on ISO 9001:2015" conducted by TUV-SUD South Asia Pvt. Ltd, Chennai, during August 2016.

Qualified in "Internal Auditing for Quality Management System Based on ISO 9001:2015" conducted by TUV-SUD South Asia Pvt. Ltd, Chennai during Feb '2016.

Current membership in professional organizations

IEEE Membership	:	41484030 (2002)
Indian Society for Technical Education	:	LM42557
Instrument Society of India	:	LM1103
The Institution of Engineering and Technology (MIET)	:	2013
The Institution of Engineering and Technology (MIET)	:	2014
The Institution of Engineers (India) (IE)	:	M-1600189 (2017)
QCFI Membership	:	049920 123078

Honors and awards

Received “Academics Professional Icon Award”- IEI TVLC TISLA award – 2019 organized by IEI TVLC on 16th November 2019 at Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai.

Received Best Performance Award for continued services and selfless contributions to the student community during the Academic year 2018-19 from Department of Placement & Training at Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai.

Received MGR RESEACH AWARD-2015 from the President, Dr. M.G.R. Educational and Research Institute

Received SIR C.V.RAMAN RESEARCH AWARD-2014 from the President, Dr. M.G.R. Educational and Research Institute.

Service activities (within and outside of the institution)

ISO Overall Coordinator

NABH Coordinator

NBA Coordinator

NAAC Coordinator

Qualified Internal Auditor for Educational Organization Management System (ISO 21001:2018)

Qualified Lead Auditor for Quality Management System based on ISO 9001:2015

Qualified Internal Auditor for NABH

Qualified Internal Auditor for Environmental Management System (ISO 14001:2015), Health and Safety Management System (ISO 45001:2018) & Energy Management System (ISO 50001:2018)

Committee Member in Electronics & Telecommunication Division, IEI, TVLC

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

Patent:

Patent application filed (No. 202341048704) for the title of invention on "Development of Portable Electrochemical Sensing Kit for Detection of Pesticide Residues from Green Peas", by Mugip Rahaman Abdul Wahab, Nandhini MuthuPandi, Keerthi Shri Boopathy, Thirunavukkarasu Palaniyandi, Dr.Rajeswary Hari and Dr. SenthilKumar Kaliamoorthy.

Patent application filed (No. 202341048705) for the title of invention on "Invention of rapid analysing kit for the detection of pesticide residues from potato, by Nandhini MuthuPandi, Dr.Thirunavukkarasu Palaniyandi, Dr.Rajeswary Hari, Dr. Karachalacheruvu Seetharamiah Nagaraja, Mugip Rahaman Abdul Wahab, Keerthi Shri Boopathy and Dr.SenthilKumar Kaliamoorthy.

Publications-

More than 50 Research Publications in International / National Journals and Conference Proceedings.

Mugip Rahaman Abdul Wahab, Thirunavukkarasu Palaniyandi, Sandhiya Viswanathan, Gomathy Baskar, Hemapreethi Surendran, S.G.D. Gangadharan, Abimanyu Sugumaran, Asha Sivaji, Senthilkumar Kaliamoorthy and Saravanan Kumarasamy, "Biomarker-specific biosensors revolutionise breast cancer diagnosis", Elsevier Journal, Volume 555, 1 March 2024, 117792

Panati S. Sreenivas Reddy, P. Michael Preetam Raj , Sravan K. Vittapu , and K. Senthil Kumar, "Inexpensive Fabrication of Sn-AgCu/Cu:ZnO/Al/PET Memristive Devices through Unconventional Synthesis Techniques", in International Journal of Electrical and Electronic Engineering & Telecommunications, ISSN: 2319-2518, Oct 2023.

A.P. Karthikeyan and K.Senthilkumar, "Design and Analysis of Modified Leach Protocol for Energy Efficiency in Wireless Sensor Networks", Chinese Journal of Computational Mechanics, 459, 2023, Issue – 5.

Thirunavukkarsu Palaniyandi, Kanagavalli B, Pranav Prabhakaran, Sandhiya Viswanathan, Mugip Rahaman Abdul Wahab, Sudhakar Natarajan, Senthil Kumar Kaliya Moorthy, and Saravanan Kumarasamy, "Nanosensors for the diagnosis and therapy of neurodegenerative disorders and inflammatory bowel disease", Volume 125, Issue 2, Feb 2023, 151997, Elsevier.

Briefly list the most recent professional development activities –

Attended Two days Conference on “University Science: a look into the future” organized by KURSK State Medical University co-hosted by Dr. MGR Educational and Research Institute, Maduravoyal on 8th & 9th Feb 2024 at Main Campus.

Attended Two days National Seminar on “Space 3.0 – Empowering Innovators & Start-ups in Space” organized by Dr. MGR-ACS Space Technology Centre and Departments of Engineering and Technology, on 1st & 2nd March 2024 at Main Campus.

Books published:

A Text Book on Basic Electrical and Electronics Engineering, published by Dr. K. Saravanan, Dr. R. Sivanand, Er. A. Raja and Dr. K. Senthilkumar, June 2023.

A Text Book on Smart Grid Technology, published by Dr. K. Saravanan, Er. A. Raja, Dr. R. Sivanand and Dr. K. Senthilkumar, June 2023.