

Faculty Profile



Dr. M. Vanitha
Professor & Deputy Head- ECE

HIGHLIGHTS:

- Number of Journal Publications: 53
- H-Index:8
- Citations: 195
- Project Funding Received: Nil
- Patents Published: 10
- Patents Granted: 01

PROFESSIONAL LINKS:

- Scopus ID: 24766818100
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=24766818100>
- Google Scholar ID: <http://surl.li/raltuo>
- Anna University Faculty ID: 1126017
- AICTE Faculty ID: 1-4141830120
- Anna University Supervisor ID: 4030014
- LinkedIn: <http://surl.li/heflgv>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 8 years and 4 months
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

- Organized an International Conference in Dubai titled “International Conference on Advances in Technology Engineering and Management” ICATEM 24 in March 2024.
- Organized International Conference on Smart Structures and Systems ICSSS'18 in October 2018 in Department of ECE, Saveetha Engineering College
- Organized International Conference on Smart Structures and Systems ICSSS'23 in November 2023 in Department of ECE, Saveetha Engineering College
- Organized an International Conference in Thailand titled “International Conference on Advances in Technology Engineering and Management” ICATEM 25 in July 2025.
- Organized International Conference on Smart Structures and Systems ICSSS'25 in December 2025 in Department of ECE, Saveetha Engineering College

AREA OF SPECIALIZATION:

- Wireless Networks
- Embedded Systems

Ph.Ds AWARDED WITH DETAILS:

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

Ph.Ds GUIDING:

- Full Time Scholars: 5
- Part Time Scholars : 3

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

Nil

PATENTS PUBLISHED/GRANTED:

- Published a patent in December 2021 on “Design system of virtual-reality based rooms for self- quarantine patients to improve their health”.
- Published a patent in February 2023 on “IoT based Embedded System for Vegetable cultivation”.
- Published a patent in September 2023 on “Artificial Intelligence (Ai) - Driven Chatbot For Smart Agriculture”
- Published a patent in September 2023 on “Smart Vehicle To Vehicle Communication Through Back Light”
- Published a patent in September 2023 on “On Steering Driver Health Prediction With Vehicle Autonomous System”
- Published a design patent in May 2024 on “Engine Control Unit with an Efficient Cooling System”
- Published a patent in March 2024 on “Smart Fuel ATM”
- Published a patent in March 2024 on “Medical Wastes Disposal Robo-Medrob”
- Published a patent in August 2025 on “Design of Embedded System on Chip AI Model For White Blood Cell Imaging Prediction and Classification”
- Published a patent in August 2025 on “Design of Embedded System-on-Chip for Enhancing Solar Power Prediction in Arid and Semi-Arid Regions for Residential Buildings Using Hybrid Machine Learning Approaches”

COURSES CERTIFIED:

- Completed 12 weeks online NPTEL course on “Digital Circuits and Microprocessors” in April 2020.
- Completed 12 weeks online NPTEL course on “Microprocessors and Microcontrollers” in August 2021.
- Completed 12 weeks Online NPTEL course on “Introduction to Wireless and Cellular communications” in November 2021.

- Completed an online course on “Introduction to Virtual Reality” conducted by University of London and Goldsmiths offered through Coursera in May 2020.
- Completed an 8 weeks Online NPTEL course on “Accreditation and Outcome based learning” in October 2022.
- Completed a 12 weeks Online NPTEL course on “Cloud Computing” in May 2023.
- Completed a six months (July 24-Dec24) AICTE PG Certification course on Internet of Things in Indian Institute of Technology, Jammu.
- Completed a 12 weeks Online NPTEL course on “Privacy and security in online social media” in October 2023
- Completed a 12 weeks Online NPTEL course on “Introduction to Internet of Things” in April 2026
- Completed a 12 weeks Online NPTEL course on “Computer Networks and Internet Protocols” in April 2026
- Completed a 12 weeks Online NPTEL course on “Operating System Fundamentals” in October 2026

ACHIEVEMENTS AND AWARDS:

- The paper titled "Performance Analysis of an Enhanced DOA for MANETs" in International Conference on Smart Structures and Systems (ISSS) won the best paper award for the session on wireless networks in 2013.
- Won academic performance award for scoring 95.4% pass percentage in Computer Networks in 2011.
- Won academic performance award for scoring 95.6% pass percentage in Computer architecture in 2012.
- Won academic performance award for scoring 92% pass percentage in Digital Electronics in 2015.
- Won academic performance award for scoring 100% pass percentage in Ad-hoc and sensor Networks in 2017.
- Won Academic performance award for scoring 100% pass percentage in Environmental Science and Engineering in 2016.
- The paper titled "Smart Walking Stick using Raspberry Pi" in International Conference on Smart Structures and Systems (ISSS) won the best paper award for the session on Signal Processing and Embedded Systems in 2018.
- Got appreciation and award from Saveetha Engineering College for publishing 12 journals in one year in the year 2022.

SPECIAL SESSIONS DELIVERED:

- Invited as Session Chair for National Conference on Signal Processing, Communication, and Networking (NCSPCN), held on May 9, 2023 at S.A. Engineering College.
- Invited for the panel discussion on Cyber Security could be the Game changer in an uncertain 2023 conducted by Cyber Heals. Delivered a talk on the topic “Fill the Gap between Cyber security curriculum and industry requirement” on 25.2.2023
- Invited as a Jury member for Project Competition in Research Day at Sri Venkateswara College of Engineering in April 2024.
- Invited as Session Chair and Keynote Speaker for the IEEE International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG), on 7th November 2024 at S.A. Engineering College, Chennai at S.A. Engineering College
- Invited as a Jury member for a 36 Hours Hackathon at Nadar Saraswathi College of Engineering College in September 2024.
- Invited as a Jury member for Project Competition in Research Day at Sri Venkateswara College of Engineering in March 2026.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Participated in AICTE sponsored One day workshop on Programme of Environment and Pollution Awareness conducted by Jaya Engineering College in 2004.
- Participated in the three days AICTE and DRDO sponsored National Workshop on Role of Embedded Systems in Industries conducted by St. Peters Engineering College in 2007.
- Participated in the 2 weeks AICTE sponsored Staff Development programme on Learning Systems in Intelligent Control- An Appraisal of Fuzzy, Neural and Genetic Algorithms conducted by St. Peter's Engineering College in 2007.
- Participated in the National Level Seminar on Energy Crisis - Remedial measures conducted by S.A. Engineering College in 2008.
- Participated in the 3 days faculty Development programme on Instrumentational Design and Delivery conducted by National Institute of Technical Teachers Training and Research, Chennai in Md. Sathak A.J.College of Engineering in 2009.
- Participated in the one day seminar on Understanding Digital and Cellular Standards and their measurements conducted by Agilent Technologies in Madras Institute of Technology in 2010.
- Participated in the National Seminar in Emerging Trends in Wireless Technology conducted by Sriram Engineering College sponsored by Tamil Nadu Science and Technology Centre Science city, Chennai in 2010.
- Participated in CSIR and IETE sponsored workshop on Recent Advances in VLSI organized by Sriram Engineering College in 2010.
- Participated in CSIR sponsored National Workshop on Smart MEMS and Sensor Systems organized by St. Peter's Engineering College in 2010.
- Participated in National workshop on Recent Advances in Wireless Information Systems conducted by Sriram Engineering College in 2010.
- Participated in ICMR sponsored 2 days National seminar on Technology Advances in Biomedical Engineering organized by St. Peter's University in 2011.
- Participated in Faculty Development programme on Recent Trends in Wireless Information Networks and Systems conducted by Sriram Engineering College in 2011.
- Participated in IETE sponsored two days National Workshop on "Wireless Sensor Networks- Applications and Challenges " in Prathyusha Institute of Technology and Management in 2011.
- Participated in National Level Conference on Challenges of Women in Technology and Science organized by Sriram Engineering College in 2011.
- Participated in one day National level Workshop on Research Methodology in Sree Sastha Institute of Engineering and Technology in 2012.
- Participated in one day National Workshop on Network Security in Anna University, Chennai in 2012.
- Participated in two days Workshop on Simulation of Advanced Networks using NS-2 at MIT Campus, Anna University, Chennai in 2012.
- Participated in one day Faculty Development Programme on Computer Networks in S.A.Engineering College in 2012.
- Participated in two days Workshop on Wireless Sensor Networks: Research Issues and Practical Solutions in B.S.Abdur Rahman University in 2012.
- Participated in two days Workshop on Network Simulator at MIT Campus, Anna University, Chennai in 2013.
- Participated in two days workshop on NS-3 A Research Perspective in Velammal Engineering College in 2013.
- Participated in two days National Workshop on Communication and Image processing using MATLAB in Peri Institute of Technology in 2017.

- Participated in the Faculty Development Training Programme on Digital Image Processing at Muthayammal Engineering College, Rasipuram sponsored by Centre for Faculty Development, Anna University in 2017.
- Participated in 2 days Faculty Development Training Programme on Embedded Systems at Muthayammal Engineering College, Rasipuram sponsored by IETE in 2016.
- Participated in AICTE sponsored three day National Seminar on Convergence of IoT, Big Data Analytics and Cloud Computing for Smart Governance in SSN College of Engineering in 2017.
- Participated in three days FDTP on Teaching Methodologies at IIT, Chennai in November 2018.
- Participated in one day workshop on Art of writing funding Proposals and research articles in Kings Engineering College in November 2018.
- Participated in one day workshop on Design Thinking in Saveetha Engineering College in December 2018.
- Participated in one day training on Scilab Workshop conducted by IIT Bombay in Saveetha Engineering College in May 2019.
- Participated in AICTE sponsored 10 days Student Induction Programme on Universal Human Values in Anna University Chennai during May and June 2019.
- Participated in IEEE National workshop on RF component measurement using VNA @8 GHz held in September 2019 at Saveetha Engineering College, Chennai.
- Participated in Two days workshop on Active Learning in Saveetha Engineering College in December 2019.
- Participated in IET sponsored National Level workshop on Airborne Internet in Saveetha School of Engineering in December 2019.
- Participated in a three-day Faculty Development Program on Citation Styles and Reference Lists 21st - 23rd June, 2021 conducted by Sri Sivani Institute of Management.
- Participated in 7 days online FDP on Technology Development in efficient Teaching methods conducted by Pachaiyappa's and Dr. Abdul Hakeem College from 23.06.2021 to 29.06.2021.
- Completed 2 weeks Short Term Course on Design Thinking Methodologies in Saveetha Engineering College from 21.06.2021 to 3.7.2021
- Participated in one week National Level FDP on "Transformation in Indian Education through New Education Policy- Challenges and Opportunities" from 05-07-2021 to 11-07-2021 organised by Government First Grade College for Women, Balmatta, Mangaluru in association with St Aloysius College (Autonomous), Mangaluru.
- Participated in the "World Education Summit 2021: Beyond Pandemic" Organised Virtually by Industry Academia Cell, AVIT in association with Centre for Industry Relations 07th June to 13th June 2021 .
- Participated in the Five day FDP on "System design for Healthcare and Assistive Technologies" organized by the Department of Electronics and Communication Engineering, SSN during 14th to 18th June 2021.
- Attended an Online 5 Days FDP on "Electrophysiology and Neuro-Instrumentation" during 8th-12th November 2021 at Dr.AIT Bangalore.
- Attended a 5 Days online FDP on "Sensors Technology" from 07/12/2021 to 11/12/2021 at G.Pulla Reddy Engineering College, Kurnool.
- Completed an 8 weeks FDP on "Accreditation and Outcome-based Learning" conducted by NPTEL from August to October 2022.
- Attended a 5 Days online FDP on "Recent Trends in 5G Communication, Design & Technologies" from 05/07/2022 to 09/07/2022 at Rajalakshmi Engineering College.
- Attended a 3 Days online FDP on "Printed and Flexible Electronics" from 27/06/2022 to 29/06/2022 at VIT.

- Attended a two weeks DST-SERB sponsored online workshop on "Introduction to Cryptology" from 02/01/2023 to 13/01/2023 conducted by NIT, Trichy.
- Attended a 2 weeks online FDP on "Multi Disciplinary Research" from 01/11/2022 to 11/11/2022 conducted by PACE Institute of Technology and Sciences.
- Attended a 6 days online FDP on “Societal Advances in Wireless Networks and Emerging Technologies” from 23.1.2023 to 28.1.2023 conducted by Saveetha Engineering College.
- Attended a 3 days online FDP on “Remote sensing data acquisition for Underwater Applications” conducted by VIT from 26.6.2023 to 28.6.2023.
- Attended a 6 days online FDP on “Empowering Innovators” conducted by Panimalar Engineering College from 24.7.2023 to 29.7.2023 .
- Attended a 6 days online FDP on “Recent Trends in Artificial Intelligence” conducted by Bhupal Noble’s University, Udaipur (online) from 22.7.2024 to 27.1.2024 .
- Attended 8 days online FDP on “Recent Methodology, pedagogy of writing, project funding” conducted by Md. Sathak A.J. College of Engineering from 22.7.2024 to 27.1.2024 .
- Attended 5 days FDP on “Navigating Digital Frontier-Transforming technologies in 21st century” conducted by Veltech University, Udaipur from 12.02.2024 to 16.02.2024 .
- Attended 7 days FDP on “Latest Trends and Techniques in software Engineering” conducted by Christ (Deemed to be University), Bangalore from 20.01.2024 to 27.01.2024 .

PROFESSIONAL MEMBERSHIPS:

- Life time Member in Institute of Engineers (India) since September 2021.
- Life Time Member in IETE since 2022
- Member in Institution of Electrical and Electronics Engineers (IEEE) since 2023