

Dr. Kavitha V

Associate Professor/ECE

Educational Qualifications

Degree	University	Year	Specialization	Class	Mode
B.E.	Bharathidasan University	1999	Electronics and Communication Engineering	First	Regular
M.E.	Anna University	2007	Electronics and Communication Engineering	First	Regular
Ph.D.	Anna University	2020	Wireless Communication, Sensor Networks	—	Part-time

Professional Experience

Sl. No.	College/Organization	Designation	Period	Total Period	Nature of Work
1	Mount Zion College of Engineering and Technology	Associate Professor/HOD	10-12-2019 to 10-5-2025 date	5 Years	Teaching & Research
2	Sri Bharathi Engineering College for Women	Assistant Professor/ HOD	24-12-2012 to 26-11-2019	7 Years	Teaching
3	MNSK College of Engineering	Assistant Professor HOD	01-07-2009 to 09-11-2012	3 Years 4 Months	Teaching
4	Sudharshan Engineering College	Senior Lecturer	26-08-2007 to 15-05-2009	1 Year 8 Months	Teaching
5	MNSK College of Engineering	Lecturer	06-11-2002 to 09-06-2006	3 Years 7 Months	Teaching
6	Aranthangi Government Polytechnic College	Lecturer	13-12-1999 to 02-09-2002	2 Years 8 Months	Teaching

Research Publications

1. **Design and development of Jeans textile antenna for wireless broadband applications**
Journal of Industrial Textiles, 2023. [DOI](#)
2. **Design and performance analysis of eight channel demultiplexer using 2D photonic crystal with trapezium cavity**
Journal of Optics, 2023. DOI
3. **Two Dimensional Photonic Crystal based Optical Encoder with Ultra Compact and High Contrast Ratio**
Journal of Optoelectronics and Advanced Materials, 2022.
4. **Investigation on Ultra-compact, High Contrast Ratio 2D Photonic Crystal based all Optical 4×2 Encoder**
Optical and Quantum Electronics, 2022. [DOI](#)
5. **Two-dimensional photonic crystal based half adder: a review**
J Opt - Springer, 2022. [DOI](#)
6. **A Hybrid Glowworm Swarm Optimization using in smart sensor networks for Electric grid**
Journal of Xidian University, 2020.
7. **A smart sensor network localization for electric grids**
Cluster Computing, 2019.

Research Funding and Projects

- **Smart India Hackathon 2021** – Team IMPETUS (Problem Statement: Fault detection in Volvo electric trucks wiring).-First place(1 lakh)
- **UBA Project** – Smart irrigation system for precision farming (₹1 lakh).
- **Community Radio Service** – Approval from the Ministry of Information & Broadcasting, New Delhi.

Professional Contributions & Responsibilities

Organized **10 workshops**, **12 symposiums**, and **3 Faculty Development Programs (FDPs)** to foster knowledge sharing, professional development, and collaboration among faculty and students.

- **IIRS-ISRO Nodal Centre Coordinator**
- **Department NBA Coordinator**

- **Department NAAC Coordinator**
 - **Antiragging Cell Coordinator**
 - **College Counselling Coordinator**
 - **IETE Coordinator**
 - **NIRF Coordinator**
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Academic Work for Student Development in Engineering

- Guided and mentored students in project-based learning initiatives, including mini-projects, major projects, and industry-sponsored projects.
- Organized and supervised technical competitions such as paper presentations, coding contests, and circuit design challenges to enhance students' problem-solving skills.
- Facilitated internships and industrial visits to provide students with real-world exposure to engineering practices.
- Coordinated value-added courses and certification programs in emerging technologies like IoT, AI, and Embedded Systems to bridge the gap between curriculum and industry requirements.
- Regularly delivered guest lectures and workshops to motivate students and improve their communication, technical, and leadership skills.
- Acted as a project guide and supervisor for B.E./M.E. students in Electronics and Communication Engineering.

Memberships

- **IETE**
- **IEEE**

Anna University Supervisor Recognition

- Ref. No.: 4390011

