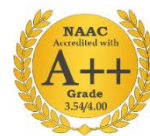





# SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of ECE					
Name	Dr.V.KAVITHA				
Date of Birth	20.04.1986				
Unique ID	1-44242975904				
Educational Qualifications	Ph.D				
Designation	Associate Professor				
Email ID	kavithav@sethu.ac.in				
Alternate Email ID	kavishan.asmi@gmail.com				
Experience	Industry	Teaching	Others	Total	
	4.5	3	-	7.5	
Date of Joining the Institution	19.02.2024				
Area of Specialization	IoT, Optimization techniques, Smartgrid				
Courses taught	1. Internet of Things 2. Wireless Communication 3. Communication Systems 4. Data Communication Networks 5. Signals and System				
Research Focus	IoT, Energy management, Optimization techniques, Smart grid, Microgrid, Renewable Energy, Wireless Networks				
Research guidance (Number of Scholars)					
Subject Competency	Internet of Things, wireless Networks,Digital Electronics				
No. of papers published	National Journals	International Journals	Conferences		
	2	2	6		
PG Specialization	Embedded System Technologies				
Ph.D. Specialization	Electrical Engineering				



<b><i>Projects Carried out</i></b>	<b><i>NIL</i></b>
<b><i>Patents (Filed &amp; Granted)</i></b>	<b><i>Filed-1, Granted-1</i></b>
<b><i>Technology Transfer</i></b>	
<b><i>No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)</i></b>	<sup>2</sup>

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## **Academic Credentials**

<b>Level</b>	<b>Degree</b>	<b>Specialization</b>	<b>University</b>	<b>Year of Completion</b>
UG	B.E.,	Electronics and Communication Engineering	Anna University	2007
PG	M.E.,	Embedded System Technologies	Anna University	2013
Ph.D.	Ph.D	Electrical Engineering	Anna University	2022

### **Details of Journal Publication:**

1. Kavitha, V & Malathi, V 2021, 'A new energy management technique for microgrid system using muddy soil fish optimization algorithm', International Journal of Energy Research (Wiley), vol. 45, pp.14824–44. (Annexure I), Impact Factor: 4.672
2. Kavitha V, Malathi V, Josep M.Guerrero, Najmeh Bazmohammadi 2022,'Energy management system using Mimosa Pudica optimization technique for microgrid applications', Energy(Elsevier),vol.244, part A,e122605.(Annexure I), Impact Factor: 8.857
3. Kavitha V,2024 "IoT-Based Efficient Charging of Solar Harvester for Tracking Maximum Power", Journal of Civil and Environmental Engineering, Volume 12, pp.321-325
4. Kavitha V, M.Isaivani ,A.Rehash Rushmi Pavitra ,2024, "A Review on Fault-Tolerant Network-on-Chip Architectures Using the RR Method",Journal of Civil and Environmental Engineering, Volume 13, pp.38-43.

### **Details of Conference attended:**

1. Kavitha V ,2025 , Presented a paper entitled "Improving crop production with smarter soil and environmental parameter monitoring" ,EMERGING TRENDS IN INFORMATION AND COMMUNICATION TECHNOLOGIES on 04-04-2025 at Sethu Institute of Technology.
- 2.Kavitha., V 2024, Presented a paper entitled "ROLE OF AI FOR DETECTION OF FUNGAL INFECTION TOWARDS ECONOMICALLY IMPORTANT CROPS" , International Conference on "Recent Trends on Fungal Applications in Agriculture, Industry, and Biomedical Process (IFAAIB-2024)" on 25th October 2024 at Madurai Kamaraj University, Madurai.

3. Kavitha, V., & Malathi, V 2019, Presented a paper entitled “A Smart Solar PV Monitoring System Using IoT”, International conference on Secure Reconfigurable Architectures & Intelligent Computing (SRAIC 2019)" held at NIT Tiruchirappalli, during 28-30 November 2019.

4.Kavitha., V and Regina, S. 2013. Presented a paper entitled “Design of fault tolerant Network-on-chip using FPGA”. International conference on “Advanced computing, Machines and Embedded Technology-ICACT’13” on 8th-9th March 2013 in JKKN College of Engineering and Technology, Namakkal.

5. Kavitha., V and Regina, S. 2013. Presented a paper entitled “Design and performance analysis of fault secure Network-on-chip using FPGA”. National conference on “Networking and Information computing -NCNIC’13” on 15th March 2013 in PSNA College of Engineering and Technology, Dindigul.

6. Kavitha., V and Regina, S. 2013. Presented a paper entitled “Design of fault tolerant Network-on-chip using RR method”. National conference on “Information and Network Management -NCINM’13” on 4th-5th April 2013 in Thiagarajar College of Engineering, Madurai.

#### **Details of Book Chapter and Books Published:**

1. Kavitha Veluchamy, Rehash Rushmi Pavitra A., M. Isaivani, Josep M. Guerrero, “Research Review on Performance Evaluation of Fifth Generation (5G) Technologies and Protocols”, IGI Global, 2024. DOI: 10.4018/979-8-3693-2786-9.ch003.
2. Isai Vani Mariyappan,V. Kavitha,R. Aravindaraj, Sonia C. Chockalingam, Josep M. Guerrero, “Prospects of Network Function Virtualization (NFV) and Software-Defined Networking (SDN) Techniques for Smart Grid Cyber Defense”, IGI Global, 2024. DOI: 10.4018/979-8-3693-2786-9.ch013

#### **Details of Patents Filed and Granted:**

<b>PATENTS APPLIED</b>			
<b>Inventors</b>	<b>Patent Title</b>	<b>Patent No.</b>	<b>Year</b>
Dr.Surendra Loya Dr.V.Kavitha Dr.S.Vidyashree Mr.R.Logeshwaran Ms.S.Saranya	HYBRID ANTENNA FOR EFFICIENT ENERGY TRANSFER IN WIRELESS POWER SYSTEMS	202441091466 A	2024 filed
Dr.M.Sheik Dawood Dr.K.A.Shahul Hameed Dr.M.Fathu Nisha Dr.V.Kavitha Mrs.A.Shakin Banu	WEARABLE COMMUNICATION DEVICE WITH GESTURE-CONTROLLED INTERFACE	434928-001	2024 granted

**Expert Lecture Delivered: NIL**