


Department of				
Name	Dr.M.Pandimadevi			
Date of Birth	22.06.1984			
Unique ID	1-724835163			
Educational Qualifications	M.E.,PhD.,			
Designation	ASSOCIATE PROFESSOR			
Email ID	pandimadeviece@sethu.ac.in			
Alternate Email ID	devidevi64@gmail.com			
Experience	Industry	Teaching	Others	Total
	-	18 Y		18Y
Date of Joining the Institution	15.06.2011			
Area of Specialization	Antenna and Optical communication			
Courses taught	1. Antenna and Wave Propagation 2. Optical and Microwave Communication 3. Wireless Communication 4. Analog and Digital Communication 5. IoT			
Research Focus	Antenna and Optical communication			
Research guidance (Number of Scholars)	Nil			
Subject Competency	Antenna and Communication			
No. of papers published	National Journals	International Journals	Conferences	
	2	10	30	
PG Specialization	Optical Communication			
Ph.D. Specialization	RF Antenna design			
Projects Carried out	MSME Project- Eco Friendly Bio-Polymer bags Smart Scarecrow			
Patents (Filed & Granted)	Granted-01 Published-01			
Technology Transfer				
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	01			





### ***Academic Credentials***

Level	Degree	Specialization	University	Year of Completion
UG	B.E	ECE	Anna University	2005
PG	M.E	Optical Communication	Anna University	2007
Ph.D.	Ph.D	Information and Communication	Anna University	2022

### **Details of Journal Publication: Publications-**

- **M.Pandimadevi, “Design of UWB MIMO Antenna Using Connectivity-Aware Graph Neural Network for Smart Fabric Communications”** International Journal of Communication Systems,Wiley,2025.
- **M Pandimadevi, R Tamilselvi, M Parisa Beham,” Development of nano ferrite coated miniaturized jute antenna for wireless applications”** Industria Textila, Vol.75, Issue:03, pp:259-266, 2024. DOI: 10.35530/IT.075.03.202358.
- **Pandimadevi, M., and N. Logasri. "Felt based Performance Improvement of Patch Antenna for WLAN Applications."** Journal of Electrical Engineering and Automation 5, no. 2 (2023): 182-190,2023. DOI: 10.36548/jeea.2023.2.003.
- **M Pandimadevi, R Tamilselvi, M Parisa Beham, “Performance enhancement of patch antenna using nanocomposite substrate for modern wireless communication systems”,** Materials Today: Proceedings, 2023.
- **Pandimadevi, M., Tamilselvi, R,” Design and Fabrication of Flexible Antenna Using Foam Substrate for WiMAX Applications”** Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 179,2021. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4687-1\\_19](https://doi.org/10.1007/978-981-33-4687-1_19).
- **M Pandimadevi, R Tamilselvi, M Parisa Beham, “Design and simulation of flexible jute antenna with performance validation on bending and soaking**

**conditions”**Textile Research Journal, 91 (1-2),219-231,2021.

- **M Pandimadevi, R Tamilselvi, M Parisa Beham,”Design Issues of Flexible Antenna -A Review”**, International Journal of Advanced Trends in Computer Science and Engineering, 8(4), 1386-1394,2019.
- **M Pandimadevi, R Tamilselvi,”Comparative study of microstrip patch antenna using different flexible substrate materials”**, International Journal of Pure and Applied Mathematics,118 (22),751-766, 2019.
- **M.Pandimadevi ,M. Parisa Beham, R.Tamilselvi, A. Saba Afroze,”Design of Flexible Slot Antenna using different substrate materials for UWB applications”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 8(8),894-898,2019.
- **S Alagarsamy, Vasant Naidu, P Immanuel Vinoth, M Pandimadevi,”Design and evaluation of E shaped microstrip patch antenna (MPA) for Wimax application”**, International journal of computer applications, 45(15),34–37,2012.

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

- Presented a paper titled, **“Design of Patch Antenna Using Cut slot techniques for Dual band applications”**, International Conference on Advances in Applied Sciences, Technology & Mathematics (ICAASTM-2025), IIT-Bombay from 20.02.2025 to 21.02.2025.
- Presented a paper titled, **“Decoding Brain Signals: A comprehensive Approach to Hybrid BCI Classification”**, International Conference on Emerging Trends on Business analytics and management sciences, IIT-Bombay from 12.12.2024 to 14.12.2024.
- Presented a paper titled, **“Eco-friendly Bags using Bio-polymers”**, International conference on Sustainability materials, IIT-Madras from 1.02.2024 to 3.02.2024.
- Presented a paper titled, **“Multi Classification of Hybrid BCI signal”, International Conference on Business Analytics and Intelligence”** ORSI-ICBAI -23,IISC,Bangalore from 18.12.2023 to 20.12.2023.
- Presented a paper titled, **“Performance Enhancement of patch antenna using Nanocomposite substrate for Modern Wireless Communication Systems”**, International Conference on Material Science and Computational Engineering-2022 conducted by Baseliros Mathews II college of Engineering, Kerala,18th November 2022.

- Presented a paper titled **“Design of Flexible antenna using Felt substrate for ISM band applications”** in International Conference on Recent Innovations in Science and Engineering ICRISE-2022 conducted by P.S.R Engineering College, Sivakasi, 21-23 February 2022.
- Presented a paper titled **“Lumped Network Equivalent circuit model Analysis of Meander Line Antenna”** in National Conference on Communication systems, NCOCS-2021 conducted by National Institute of Technology, Puducherry, 17th December, 2021.
- Presented a paper titled **“Design and fabrication of flexible antenna for WiMAX applications”** in International Conference on Micro-electronics and telecommunication Engineering ICMETE-2020 conducted by SRM institute of Science and Technology, Ghaziabad 26-27 September, 2020.
- Presented a paper titled **“Design of Flexible antenna with H-Slot for UWB applications”** in International Conference on Design and Applications of structures, drives, communicational and computing systems conducted by KLN College of Information Technology, 8th & 9th March 2019.
- Presented a paper titled **“Flexible Substrate Material for antenna design-A review”** in National conference on Emerging trends in Information & Communication Technologies conducted by Sethu Institute of Technology, Kariapatti, March 2018.
- Presented a paper titled **“Comparative Study of Microstrip Patch Antenna Using Different Flexible Substrate Materials”** in IEEE sponsored International conference on Recent advances in Engineering and Technologies- ICRAET 2017 conducted by Sri Krishna College of Engineering and Technology, Coimbatore.

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

M Pandimadevi, R Tamilselvi, M Parisa Beham, “Design of flexible antenna using felt substrate for ISM band applications” Antennas for Industrial and Medical Applications with Optimization Techniques for Wireless Communication, CRC Press, Dec 2024.

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

- METHOD OF CONTROLLING AN APPARATUS FOR GENERATING ELECTRIC POWER AND METHODS OF POWER RECOVERY -Published (2023)
- IOT BASED SOLAR POWERED AGRICULTURE ROBOT -Granted (2024)

### **Expert Lecture Delivered:**

- Given Lecture on the topic, **“ANTENNA DESIGN USING CST TOOL”** in Sairam College of Engineering on Feb 2023.
- Given Lecture on the topic, **“Electro Magnetic Fields”** in NPR College of Engineering on Jan 2025.

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