

**PREETHI. D**

Assistant Professor (Selection Grade), Department of Electronics and Communication Engineering
 Karunya Institute of Technology and Sciences
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RESEARCH/TEACHING INTERESTS

Research interests encompass VLSI Design, AI, IoT, and Embedded Systems, emphasizing energy-efficient hardware architectures, biomedical signal processing, and intelligent automation. In addition, also actively engaged in smart healthcare, computer vision, and next-generation edge computing solutions.

EXPERIENCE

Assistant Professor (Selection Grade), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2026 – present

Associate Professor, Electronics and Communication Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, India, 2023 – 2026

Assistant Professor (Senior Scale), Electronics and Communication Engineering, Dr.NGP Institute of Technology, Coimbatore, India, 2021 – 2023

Assistant Professor, Electronics and Communication Engineering, Bannari Amman Institute of Technology, Sathyamangalam, India, 2015 – 2021

EDUCATION

Degree	Branch/ Specialization	University	Class	Mode	Month&Year of Passing
Ph.D.,	Information and Communication Engg.	Anna University	-	Part Time	March 2021
M.E.,	VLSI Design	Avinashilingam University	Distinction	Full Time	May 2015
B.E.,	Electronics and Communication Engg.	Avinashilingam University	Distinction	Full Time	May 2013

SUMMARY OF INTERNATIONAL JOURNAL& CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]

Year	International Journal Publications	International Conference Publications	National Conference publications
2013 - 2016	18	26	10

PATENTS

1	System and Method for Classification and Enhancement of Physiological Signals with Noise Mitigation, Application No. 202541073760, Publication Year: 2025
2	Smart Monitoring Apparatus for Detection of Sleep-Related Breathing Irregularities, Application No. 202541073761, Publication Year: 2025
3	Integrated Monitoring and Dispensing System for Hygienic Hand Disinfection Compliance, Application No. 202541073764, Publication Year: 2025
4	A real-time tire pressure monitoring and automatic inflation system and a method thereof, Application No. 202541079937, Publication Year: 2025
5	Solar and battery storage system for EV charging, Application No. 201941045266, Publication Year: 2024
6	Low Cost Handicapped Vehicle, Application No. 201941045266, Publication Year: 2019

RESEARCH PROJECTS

#	Title of the project	Funding Agency	Amount(Rs.)	Year
1	Smart Handwash Monitoring Device	DST- Nidhi Prayas	2.75 lacks	2020-21

RESEARCH GUIDANCE

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	-	-
Master of Engineering - Master's Thesis advising	-	-

PROFESSIONAL MEMBERSHIPS

1	Life member of ISTE
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AWARDS/HONORS

- Best Young Women Faculty Award
- Young Woman Researcher in VLSI Design