Name	**Dr.S.PREMALATHA**
Department	**ECE**
Qualification	**B.E., M.E., Ph.D**
Area of Specialization	**Signal processing**
Date of Joining (KSR IET)	**01-06-2017**

Experience (as on 01.03.2023)	**Teaching:11Y 9 M**	**Industry:2Y 9M**	**Others: -**
Number of Papers Published	**National Journals : -**		**International Journals : 07**
Number of Papers Presented	**National Conferences : 05**		**International Conferences : 02**
Books Published	**National Publisher : -**		**International publisher : -02**
Contact Details	**E Mail: shineprem1@yahoo.co.in Mobile: 9942329398**		

Publications (International Journals)

1. S.Premalatha & J.Muralidharan, "Modified FFT Algorithm and its application in Digital Image processing System", CIIT international Journal, March 2011.

2. S.Premalatha,   "Voice Controlled Smart Wheelchair", International Journal for Scientific Research and Development,april 2018.

3. T Kesavamurthy, Mrs S Premalatha "Automated speech recognition system with noise consideration". Journal of Electrical Engineering,feb 2020.

4. Mrs S Premalatha, A Novel Step for the Enhancement of Security in ARIPORTS Using Optical Ideology

5. Dr.S.Premalatha," Gas Leakge Detector and Alert System on IOT", International Journal

of Research and Analytical Reviews,march 2021.

6. Dr.S.Premalatha," Smart electricity meter with billing system using IOT", International Journal of Research and Analytical Reviews,march 2021.

7. Dr.S.Premalatha," Flood Monitoring and Alerting System using IOT", International Journal of Intellectual Advancements and Research in Engineering Computations, march 2022

Publications (National Journals)   Nil

Publications (International Conferences)
1. **"Speech Recognition System using Tolerant Adder", International conference on "VLSI Computation, Networking, Drives ,Image processing &System Design",26 March 2015**
2. **"**Flood Monitoring and Alerting System using IOT", **International conference on** Recent innovations in Robotics,Construction and Mechanical sciences",June 10-11,2022

Publications (National Conferences)

1. **"Speech Recognition using Error Tolerant Adder", National Conference on "Trends in Automotive parts Systems and Application",20 & 21 March 2015**

2. **"Border Alert System for Fisherman using GPS Technology", National Conference on "Advanced Information and System for sustainable Developments in Electrical and Electronics Engineering",27 March 2015.**

3. **"An Enhanced Error Compensation Design for Fixed width modified Booth Multiplier", National conference on Recent Trends in communication, Computation & VLSI,21 February 2013.**

4. **"Modified FFT Algorithm and its application in Digital Image processing System", National conference on "Emerging Trends in Computer communication and Informatics" ,10 &11 March 2011.**

5. **"Error Tolerant Adder based DSP System", National Conference on "NCNICS" in SNS College of Technology, 17 February 2011.**

Programmes Attended (Seminar/ Workshop/ FDP / STTP others)

S. No	Name of the Programme	Type of the Programme	Organised by	Period
1.	Research Methodology	seminar	Dept. of EEE / KSRIET	05th August 2017
2.	The role of embedded	FDP	Hindusthan Institute	27th to 31th

	systems in IOT		of Technology	May 2019
3.	VIRTUAL LABS	FDP	PALS	14th to 18th September 2020
4.	Bloom's Taxonomy-Higher Order Thinking Skills In Electronics and Communication Engineering	STTP	Saveetha Engineering College	25th to 29th May 2020
5.	Outcome Based Education & Assessment of CO-PO Attainment	workshop	KSRIET	24th September 2021.
6.	Science-Engineering-Technology Synergy for Sustainable Growth	FDP	SRM university	25th September 2021.
7.	Renewable Energy Systems	FDP	Jarusalem college of Engineering	29th to 30th September 2021
8.	Deep Learning For Computer Vision,Speech And NLP:Research And Apllication Perspective	FDP	PSG CVSR,PSG College of Technology	27th june 2022 to 01st july 2022
9.	Workshop on "Workplace Communication"	Workshop	K S R Institute For Engineering and Technology, Tiruchengode	27thaugust 2022
10.	IP awareness program under National Intellectual Property awareness mission	FDP	Intellectual Property Office, India with KSRIET, Tiruchengode	23rd November 2022
11.	FDP on Restructuring Classrooms	FDP	HR Cell, K S R Institute of Engineering and Technology	03rdDecember 2022
12.	NPTEL online certification course on Accreditation and Outcome Based Learning (ELITE)	FDP	NPTEL	-
13.	FDP on Accreditation and Outcome Based Learning	FDP	NPTEL	2022-2023
14.	FDP on Microsoft Power BI Data Analyst Associate	FDP	ICT Academy	26th to 30th December 2022

Book chapter published:

AUTHOR NAME	BOOK NAME	CHAPTER NAME	PUBLISHER	YEAR OF PUBLICATION
Dr.S.Premalatha	Big data management in sensing Applications in AI and IOT	Forecasting Time Series Data Using ARIMA and Facebook Prophet Models	River publishers and also published in IEEE xplore	2021 ISBN:978-87-7022-415-4 (Handbook) 978-87-7022-414-7 (Ebook)
Dr.S.Premalatha	Challenges and Risks Involved in Deploying 6G and NextGen Networks	Augmentation of Terahertz Communication in 6G and its dependency for future state-of-the-Art technology	IGI Global	9781668438046

Patents Applied and Published Details:

S.No.	Patent Title	Applicants Name	Patent Filed Date	Patent Status (Applied/Filed/ Granted)
1.	Intelligent irrigation control system in agriculture area using IOT and Sensor.	Dr.S.Premalatha	04.03.2023 Patent number 202311014562 A	Published Date: 17/03/2023

Membership in Professional Bodies

- **Indian Society for Technical Education (ISTE) - Life Member (LM)**