


<b>Name:Dr.M.Jenath</b>					
<b>Designation:</b>	<b>Assistant Professor</b>				
<b>Qualification:</b>	<b>B.E., M.E., Ph.D.,</b>				
<b>Area of specialization:</b>	<b>Antenna Design,Wireless Communication,Wireless Network,VLSI design</b>				
<b>Experience : (As on July 2022)</b>	<b>Industrial Experience</b>			<b>Teaching Experience</b>	
	--			15 yrs 8 months	
<b>Number of workshop / FDP organized:</b>	<b>Workshops</b>	<b>FDPs</b>	<b>Seminar</b>	<b>Short term Training</b>	<b>Conferences</b>
	-	1	-	-	-
<b>Number of workshop / FDP/Seminar attended:</b>	12	20	7	6	14
<b>Publications:</b>	<b>Conference</b>			<b>Journal</b>	
	<b>National</b>	<b>International</b>		<b>National</b>	<b>International</b>
	5	4		-	6
<b>Professional Body Membership:</b>	1.Member (M' 98832445), Institute of Electrical and Electronics Engineers (IEEE),Inc.USA. 2.Life Member (LM' 62550), Indian Society of Technical Education (ISTE), India.				
<b>Staff Achievements:</b>	<ul style="list-style-type: none"> <li>○ Guided 30 UG and 10 PG Projects</li> <li>○ Achieved University Rank Holder in PG</li> <li>○ 2 SCI Journals</li> </ul>				

**EXPERIENCE:ACADEMIC-15 Yrs 8 months.**

Name of the college	Designation	Duration	Total no. Of
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				<b>years</b>
1	Sri Sairam Engineering College	Assistant Professor	27.6.2022 to Till Date	-
2	Adhiparasakthi Engineering College, Melmaruvathur,	Assistant Professor	04.12.2012 to 2.6.2022	9 yrs 6 months
3	Adhiparasakthi Engineering College, Melmaruvathur	Lecturer	04.6.2012 to 3.12.2012	7 months
4	Adhiparasakthi Engineering College, Melmaruvathur	Lecturer	27.3.2006 to 31.8.2010	4 yrs. 5 months
5	Dr.Pauls Engineering College	Lecturer	01.8.2005 to 25.3.2006	8 months

**WORKSHOP / FDP / SHORT TERM/ SEMINAR /CONFERENCE ATTENDED/COORDINATED**

- Completed the test successfully in the “**Arduino Course**” organized at Sri Sairam Engineering College by Spoken Tutorial Project, IIT Bombay through online on December 12,2022.
- Participated in 12 week AICTE Sponsored NPTEL FDP on “**Internet of Things**” and completed the course successfully from 1.8.2022 to 30.10.22
- Co-ordinated in conducting the “**Intellectual Property Awareness**” program under National Intellectual Property Awareness Mission On October 20,2022.
- Participated in “**Intellectual Property Awareness**” program under National Intellectual Property Awareness Mission On October 20,2022.
- Participated in one week AICTE Sponsored Online FDP on “**IOT Based Smart Automation System**” organized by MVGR College of Engineering, Vizianagaram,22.8.22 to 27.8.2022.
- Participated in online 6 days FDP on “**Digital Signal Processing**” organized by Centre for Faculty Development Programme, Anna University Chennai in Kingston Engineering College

from July 11.7.2022 to 16.7.2022.

- Participated in online 5 days FDP on “**Recent Trends in 5G Communication, Design & Technologies**” organized by the Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with IEEE Student Branch REC, IETE and Institution Innovation Council from July 5.7.2022 to 9.7.2022.
- Participated in online 5 days International workshop on “**Modern design and its Challenges**” organized by the Department of Electronics and Communication Engineering, Mizoram University from Feb 21.2.2022 to 25.2.2022.
- Participated in Webinar on “**Advanced Antenna design for 5G MIMO with CST Studio suite 2022 and Antenna magnus**” organized by IEEE Antenna and Propagation society, IEEE student branch of Kongu Engineering College, Perundurai on 24th January 2022.
- Participated in Faculty Development Programme on “**Wearable Robotics: Design, Sensing and Support**”, organized by AICTE Training and Learning Academy (ATAL) sponsored Five Days Programme at Indian Institute of Information Technology Kotturamudi during 24<sup>th</sup> Dec to 28<sup>th</sup> Dec 2021.
- Participated in Faculty Development Programme on “**Embedded system and Robotics**”, organized by AICTE Training and Learning Academy (ATAL) sponsored Five Days Programme by Department of Electronics and Communication Engineering, HKBK College of Engineering during 15<sup>th</sup> Nov to 19<sup>th</sup> Nov 2021.
- Participated in Webinar on “**International Webinar Session - Technology Impact On New Education Policy**” organized by IQAC Cell & Department of Computer Science and Engineering Adhiparasakthi Engineering College in Association with Computer Society Of India - Kancheepuram Chapter on August 27, 2021.
- Participated in Faculty Development Programme on “**Recent Advances in Antennas for Wireless Communications**”, organized by Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla, Andhra Pradesh during 27th July to 31st July 2021.

- Participated in Short term Training Programme on **“Machine learning Approaches for Advanced Industrial Automation”**, organized by AICTE sponsored Six Days programme by Department of Electronics and Communication Engineering, Hindustan Institute of Technology and Science during 04<sup>th</sup> Jan to 09<sup>th</sup> Jan 2021.
- Participated in Webinar on **“Hybrid AC/DC Micro grid, Architecture, operation and control meet”** organized by IEEE student branch of APEC, Melmaruvathur and IEEE Madras Section on SAC on 2<sup>nd</sup> September 2020.
- Participated in Six Days FDP in association with Industries on Online Spoken Program on **“Advanced Communication Laboratory”**, Organized by Department of ECE PSNA College of Engineering and technology, Dindugal held on 20<sup>th</sup> July 2020 to 25<sup>th</sup> July 2020.
- Participated in one week FDP on **“Principles of Modern RADAR”** organized by the Department of Electronics and Communication Engineering, RISE Krishna SaiPrakasam Group of Institutions, Ongole in association with ISTE chapter from 3<sup>rd</sup> June 2020 to 7<sup>th</sup> June 2020.
- Participated in three days FDP on **“Understanding signal Processing”** organized by the Department of Electronics and Communication Engineering, RISE Krishna SaiPrakasam Group of Institutions, Ongole in association with ISTE chapter from 12<sup>th</sup> June 2020 to 14<sup>th</sup> June 2020.
- Participated in Webinar on **“Tools For Making Your Thesis Complete”**, organized by Usha Rama College of Engineering and Technology, Telaprolu, Andhra Pradesh, India on 7<sup>th</sup> June 2020.
- Participated in Webinar on **“Financial Planning & Engineering”**, Conducted by Department of Electronics and Communication Engineering, Sathyabama Institute Of Science And Technology, Chennai, from June 10<sup>th</sup> 2020- to 14<sup>th</sup> June 2020.
- Participated in Two days Hands on Training on **“3D Electromagnetic Simulation of Antennas and RF Modules using CST studio suite”**, Organized by Department of Electronics and

Communication Engineering, Jerusalem College of Engineering, Chennai from 4th to 5th, June 2020.

- Participated in Webinar on “**Antennas and Protocols**”, Conducted by Department of Electronics and Communication Engineering, RVS college of Engineering and Technology, Coimbatore on June 1<sup>st</sup> 2020.
- Participated in three days FDP on “**Art of writing research articles and funding proposals**”, organized by the Department of Electronics and Communication Engineering, ManakularVinayagar Institute of Technology, Puducherry, from 21<sup>st</sup> May 2020 to 23<sup>rd</sup> May 2020.
- Participated in 5 days FDP ON, “**Future Tech 2020**”, conducted by theSky campus in association with ICT Academy from May 18<sup>th</sup> 2020 to May 22<sup>nd</sup> 2020.
- Participated in 32nd Edition of “**Bridge 2018–Chennai**” (Largest Industry –Institute Event of Asia, organized by ICT Academy held on 28<sup>th</sup> March 2018 at ITC Grand Chola, Chennai.
- Participated in three Day Workshop on “**Design of microstrip patch antenna array using HFSS**”, Organized by Department of ECE, B.S.ABDUR RAHMAN Crescent University during 5<sup>th</sup> October 2017 to 7<sup>th</sup> October 2017.
- Participated in One Day Workshop on, “**Frequency Design using ADS**”, organized by the Department of Electronics and Communication Engineering, M.I.T Campus, Anna University Chennai in association with Keysight Technologies on 11<sup>th</sup> August 2017.
- Participated in One Day Workshop on “**3D EM simulation technique for antenna and filter using CST Studio suite and ADS software**”, Organized by Department of ECE, SriVenkateswara College of Engineering, Chennai held on 19<sup>th</sup> August 2017.
- Participated in One Week Short Term Course sponsored by Quality Improvement Programme, AICTE on “**Recent Trends And Developments In Broadband Technologies**” organized by

Department of ECE, Pondicherry Engineering College, Pondicherry held from 7th November 2016 to 11th November 2016.

- Participated in One week FDP on **“VLSI design”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Melmaruvathur from 5<sup>th</sup> December to 12<sup>th</sup> December 2014.
- Participated in 6 days training program on **“Instructional Design And Delivery System”** conducted by National Institute of Technical Teachers Training and Research from 9<sup>th</sup> December to 13<sup>th</sup> December 2013.
- Participated in Two Days FDP on **“Cloud infrastructure and services”**, Adhiparasakthi Engineering College, Melmaruvathur from 25<sup>th</sup> November to 29<sup>th</sup> November 2013.
- Participated in Two Days Workshop on **“R&D issues and challenges”**, Adhiparasakthi Engineering College, Melmaruvathur on 20<sup>th</sup> November to 21<sup>st</sup> November 2013.
- Participated in Two Days FDP on **“FSIT business Dynamics”**, organized by the Department of Computer Science Engineering, Adhiparasakthi Engineering College, Melmaruvathur on 16<sup>th</sup> July to 17<sup>th</sup> July 2013.
- Participated in Seven Days Anna University Sponsored FDP on **“Signals and systems”** Organized by Department of ECE, KarpagaVinayaga college of Engineering and Technology, Mamandurheld from 24<sup>th</sup> to 30<sup>th</sup> June 2013.
- Participated in Two Days Workshop on **“Cloud computing &SOA testing”**, organized by the Department of Computer Science Engineering, Adhiparasakthi Engineering College, and Melmaruvathur on 25th April 2013 to 26<sup>th</sup> April 2013.
- Presented paper in AICTE sponsored International Conference on, **“Communication and Signal Processing”**, Titled FPGA implementation on Reversible floating point Multiplier from 4th April 2012 to 5<sup>th</sup> April 2012.

- Participated in AICTE sponsored Two Days Seminar on **“Wireless Sensor Network and its applications”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering college, Melmaruvathur from 20<sup>th</sup> July 2011 to 21<sup>st</sup> July 2011.
- Participated in One Day Workshop on **“Recent research issues in networks”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Melmaruvathur on 25<sup>th</sup> February 2011.
- Participated in One Day Workshop on **“Ansoft High Frequency Applications”**, organized by the Department of Electronics and Communication Engineering, College of Engineering, Anna University –Chennai and ACTIVE Bangalore on 26<sup>th</sup> February 2010.
- Participated in Two Days Workshop on **“Design and Testing of VLSI circuits”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College from 18<sup>th</sup> Feb 2010 to 19<sup>th</sup> Feb 2010.
- Participated in Two Days Workshop on **“Software testing”**, organized by the Department of Computer Science Engineering, Adhiparasakthi Engineering College, Melmaruvathur on 22<sup>nd</sup> October 2009.
- Participated in One Day Workshop on **“Emerging trends in Wireless embedded systems”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering college, Melmaruvathur on 4<sup>th</sup> April 2009
- Participated in Two Days Workshop on **“Recent trends in VLSI and embedded systems”**, organized by the Department of Electronics and Communication Engineering, Adhiparasakthi Engineering College, Melmaruvathur on 27<sup>th</sup> July 2007 to 28<sup>th</sup> July 2007.

## **GUEST LECTURE DELIVERED**

- Delivered Guest lecture on VLSI design on the topic “**SPICE Simulation**” by Centre for Faculty Development Programme, Anna University Chennai in Adhiparasakthi Engineering College, Melmaruvathur on 9<sup>th</sup> December 2014.

## **JOURNAL PUBLICATIONS**

### **Number of Journal Paper Publications – 06**

- 1.**JenathSathikbasha, M** &Nagarajan.V 2021, ‘Design of Compact D -shape Frequency Reconfigurable Slot Antenna for Ku/K Band Applications’, Springer- Wireless Personal Communications,ISSN: 0929-6212,Vol. 120, no. 4.pp.pages.2613-2629.
- 2.**JenathSathikbasha, M** &Nagarajan,V 2020, ‘Design of Multiband Frequency Reconfigurable Antenna with Defected Ground Structure for Wireless Applications’,Springer–Wireless Personal Communications,ISSN: 0929-6212,Vol. 113, no. 2. pp. 867-892.
- 3.M.P.Nirmala , **M.Jenath**, “Walking Stick With Heart Attack Detection”,International Journal Of Innovative Research In Computer And Communication Engineering IJIRCCE’15, ISSN(Online): 2320-9801 ISSN (Print): 2320-9798, Vol. 3, Issue 9, pg no 8305-8315, September 2015 .
- 4.**Jenath. M**,Suria.S.T, “Performance and analysis of CLA with SAL logic &reversible logic to reduce the overall power consumption”, International Journal of Advanced Innovative research IJAIR- Volume 4 Issue 10 ISSN:2278:7844, pg no 78-82, October 2015.
- 5.S.E.Balaji,**M.Jenath**, “Design of single precision addition and subtraction using COG and MIG gate”, IFRSA International journal on Electronic circuits and system(IJECS), Volume 4, Issue 1 ,Pg no 33-37,January 2015.
- 6.**Jenath, M** &Nagarajan ,“FPGA implementation on Reversible floating point Multiplier”,International Journal on soft computing and technology(IJSCE) ,Vol.No.2 ISSN 2231-2307,March 2012.



## **CONFERENCE PUBLICATIONS: 14**

**Number of International Conferences Paper Publications** - 10

**Number of National Conferences Paper Publications** - 04

1. P.Banupriya,Suresh Kumar R&**M.Jenath**, “IOT based Early Flood detection and Avoidance system”,IEEE International Conference on Intelligent systems Design and Applications held on December 12-13, 2022.
- 2.**M.Jenath**,R.Srivel , P.Banu Priya&R Gopi“Broadband and Wide beam width Orthogonal dipole antenna for Wireless Applications”,IEEE International Conference on Power,Energy,Control and Transmission systems”at Sairam Engineering College held on December 8<sup>th</sup> and 9<sup>th</sup> -2022.
- 3.P.Banu Priya,**M.Jenath**,&S.Surya“Low Cost QuArm band for Controlling Contagious diseases”,IEEE International Conference on Power,Energy,Control and Transmission systems”at Sairam Engineering College held on December 8<sup>th</sup> and 9<sup>th</sup> -2022.
- 4.R.Gopi, P.Banu Priya ,**M.Jenath**,”Detection of Air pollution in Vehicles using Embedded and IOT ”,IEEE International Conference on Power,Energy,Control and Transmission systems”at Sairam Engineering College held on December 8<sup>th</sup> and 9<sup>th</sup> -2022.
- 5.B.Rajalakshmi, **M.Jenath**,& R.Subhashini“Sub6GHz Tx-Rx Microstrip antenna for 5G Applications”,IEEE International Conference on Power,Energy,Control and Transmission systems”at Sairam Engineering College held on December 8<sup>th</sup> and 9<sup>th</sup> -2022.
- 6.R.Srivel , **M.Jenath**,&B.Rajalakshmi“Energy Efficient Scheduling By Using Nature Inspired Algorithm For Building Monitoring System Using Hybrid Wireless Sensor Networks Protocol”,IEEE International Conference on Computational Science and Technology(ICCST 2022) at Sairam Engineering College held on 09<sup>th</sup> and 10<sup>th</sup> November -2022.
- 7.**M.Jenath**, V.Nagarajan, “DGS based Multiband frequency reconfigurable antenna for wireless

applications”,IEEE International Conference on Communication and Signal Processing (ICCSP), Adhiparasakthi Engineering College, Melmaruvathur, April 2019.

8.**M.Jenath**, V.Nagarajan, “Review of design of frequency reconfigurable antenna for wireless applications”,IEEE International Conference on Communication and Signal Processing(ICCSP) , Adhiparasakthi Engineering College, Melmaruvathur , April 2017.

9.**M.Jenath**, G.R.Priyadharshini&R.Nafsin, “Estimating soldiers war field location leveraging large scale crowd sourced smart phone data using Ibeacon”, National Conference on Recent Trends in Information Technology,NCRTIT’16 ,March 30 -2016.

10.S.E.Balaji,**M.Jenath**, “ Design Of Reversible Single Precision Floating Point Addition And Subtraction Using Cog And MIG Reversible Logic Gate National Conference On Innovations In Information, Communication and Electrical Technologies ,IICET ’15,pg 122- 125, March 2015.

11.N.Iswaryalakshmi, R.Ashwini, U.Savitha,**M.Jenath**, “Recrupting from a Node Crash in Wireless Sensor Actor Network With Nominal Topology Changes, National Conference on Recent Trends in Electronics and Communication (NCRTECE), March 2014.

12.G.Aparna,S.Dharani , **M.Jenath**, “Data security for smart distribution grid using key management system schemes, National Conference on Recent Trends in Electronics and Communication (NCRTECE),March 2014.

13.Vedasundravinayagam. P, Sivaraju.R, and**Jenath. M**, “An analysis for MC-CS CDMA using optimized coding technique”,International Conference on Information Communication &Embedded Systems (ICICES 2014), ISBN No.978-1-4799-3834-6, SA Engineering college, February 2014.

14.**Jenath, M** &Nagarajan ,“FPGA implementation on Reversible floating point Multiplier”,IEEE International Conference on Communication and Signal Processing,Adhiparasakthi Engineering College, Melmaruvathur - April 2012.

### **BOOK PUBLICATION**

**Jenath, M &Nagarajan,V**, “RF and microwave engineering, **Shri Krishna Publication**, A Hi-Tech Publishing Company, Chennai.

### **EVENTS ORGANIZED**

- Organized APEC Alumni Meet at Vijay Park Hotel in Chennai.
- Organized Department Association function .
- Organized FDP on **Intellectual Property Awareness”** program under National Intellectual Property Awareness Mission.

### **GUIDANCE OF ACADEMIC PROJECTS**

- Masters Projects (M.E) projects Guided : 10
- Under graduate project guided : 30

### **PATENT PUBLISHED**

**Title of the Patent** :Artificial Intelligence Based Techniques to analyze the intrusion in Wireless Sensor Networks.

### **SUPERVISOR GUIDESHIP**

Supervisor Guide ship in Anna University.