

<b>Name:</b> A R RAJINI			
<b>Designation:</b>	Professor		
<b>Qualification:</b>	Ph.D		
<b>Area of specialization:</b>	MICROWAVE and ANTENNAS		
<b>Experience:</b> (As on July 2025)	<b>Industrial Experience</b>		<b>Teaching Experience</b>
	--		36 Years
<b>Number of workshop/ FDP organized:</b>	<b>Workshops</b>		<b>STTP/ FDPs</b>
	12		4
<b>Number of workshop/ FDP attended:</b>	15		16
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>
	<b>National</b>	<b>International</b>	<b>National</b>
	11	9	8
<b>Professional Body Membership:</b>	IEEE, IETE, ISTE, BES		
<b>Staff Achievements:</b>	<ul style="list-style-type: none"> <li>○ Lions Club of Madras Metropolitan South, on the occasion of Teacher's day celebration 2006.</li> <li>○ Topper in NPTEL Course "NBA Accreditation and Teaching-Learning in Engineering (NATE)"</li> <li>○ NPTEL Believer / Motivated Learner / Discipline Star Dec 2024</li> <li>○ NPTEL Enthusiast - April 2025</li> </ul>		

**EXPERIENCE: ACADEMIC**

Sl. No.	Name and Address of the Institution	Designation	Period of Experience
1	Sri Sairam engineering college, Sai Leo Nagar, West Tambaram, Chennai - 600044.	Professor	August 2005 to till Date
		Asst Prof	4Yrs(June1998 to July 2005)
		Lecturer	1Yr (August 1997 to May 1998)
2	AMA College of Engineering	Lecturer	8 yrs1month (July 1989 – August 1997)

**WORKSHOP/FDP/CONFERENCE ORGANIZED:**

	<b>Sl. No.</b>	<b>Title</b>	<b>Month/Year</b>
<b>Workshop</b>	1	VLSI Design & Embedded System Technologies	26 <sup>th</sup> to 28 <sup>th</sup> July '02
	2	Fiber Optic Communication	27 <sup>th</sup> & 28 <sup>th</sup> Nov '03
	3	Networks & Security	22 <sup>nd</sup> Sep '06
	4	MATLAB and its Applications	26 <sup>th</sup> to 29 <sup>th</sup> July '07
	5	Recent Trends in Wireless Information Network & Systems	1 <sup>st</sup> Feb '08
	6	Getting Started with MATLAB	30 <sup>th</sup> Jun to 3 <sup>rd</sup> July '08
	7	Wireless Communication & Radiating Systems	21 <sup>st</sup> & 22 <sup>nd</sup> March 2011
	8	Recent Trends in Antennas for Multifield Applications	27 <sup>th</sup> & 28 <sup>th</sup> Dec '12
	9	Emerging Trends and Future perspective in Image processing and Computer vision	22 <sup>nd</sup> to 23 <sup>rd</sup> September 2015
	10	Science of EMI	24 <sup>th</sup> Sep 2015
	11	Healthy Long Life for Senior Citizens	31 <sup>st</sup> Aug & 1 <sup>st</sup> Sep 2017
	12	Emerging Trends and Future Perspective on Image Processing & Computer Vision	3 <sup>rd</sup> to 5 <sup>th</sup> January 2018.
<b>FDP</b>	1	Recent Trends and Research Issues in Wireless Communication	3 <sup>rd</sup> to 8 <sup>th</sup> August 2015
	2	Embedded and Real Time Systems	6 <sup>th</sup> Jun to 13 <sup>th</sup> June 2016
	3	Optical Communication and Networks	31 <sup>st</sup> May to 6 <sup>th</sup> June 2017
	4	Online-Six Day FDP on CS8082- Machine Learning Techniques	7 <sup>th</sup> Jun to 12 <sup>th</sup> June 2021

Conferences	Sl. No.	Title	Month/Year
	1	International Conference on Computers, Controls & Communication	20 <sup>th</sup> to 22 <sup>nd</sup> Aug 2004
	2	National Conference on Biomedical Electronics and Biomedical Informatics	Feb5 <sup>th</sup> & 6 <sup>th</sup> 09.
	3	National Conference on Emerging Trends in Communication and Information Technology	1 <sup>st</sup> March 2012 & 2 <sup>nd</sup> March 2012.
	4	National Conference on Advanced Communication & Computing Techniques	18 <sup>th</sup> March 2013
	5	National Conference on Advanced Communication and Computing Techniques	11 <sup>th</sup> April 2014
	6	International Conference on Wireless & Broadband Technologies (in Association With ICT Academy of Tamilnadu, Co-Sponsored by ISRO, Bengaluru.)	On 23 <sup>rd</sup> and 24 <sup>th</sup> June, 2016
	7	IEEE Conference on Communication, Computing and Internet of Things (IC3IoT*2018)	15 <sup>th</sup> to 17 <sup>th</sup> February 2018.

**WORKSHOP/FDP/CONFERENCE ATTENDED:**

- 3 Day Seminar cum Workshop on VLSI Design and Embedded System Technology at Sri Sairam Engineering College from 26<sup>th</sup>–28<sup>th</sup> July 2002.
- Training program on “Internal Quality Auditor” at Sri Sairam Engineering College on 10<sup>th</sup> May 2003.
- Short term course on “Multimedia Systems” at IISc, Bangalore from 23<sup>rd</sup> to 30<sup>th</sup> Oct 2003
- Workshop on “Fiber Optic Communication” at Sri Sairam Engg. College–27&28 Nov\*03.
- Workshop on “Direct to Home Technologies” conducted by Broadcast

- Engineering Society on 9<sup>th</sup> July 2004.
- Seminar on “Broadcasting Emerging Technologies in Mobile World” on 8.9.06 organized by Broadcasting Emerging Society Chennai chapter.
  - Workshop on "Networks & Security" conducted at Dept of ECE, Sri Sairam Engineering College and Benchmark on 22.9.06.
  - Workshop on "Emerging Trends in VLSI and ASIC Designs" conducted at Dept of ECE, Anna University. April 07, 2007.
  - Workshop on Getting started with MATLAB- Organized by Raghuram Associates held at Sri Sairam Engineering College-June 30<sup>th</sup>-July 3<sup>rd</sup>, 08
  - Staff development Program on “Instructional Design & Delivery” at Sri Sairam Engg. College – 8<sup>th</sup> & 9<sup>th</sup> Jan ‘09.
  - Seminar on “Broadcasting in Digital Era on 26.09.2009 organized by Broadcasting Emerging society Chennai chapter.
  - Seminar on “Advanced Technologies in Wireless Communications”, on 19<sup>th</sup> Sep ‘09, organized by Institution of engineers (I) at Anna University.
  - FDP on "Robotics- An Application in Medical Science" from 2020-12-1 to 2020-12-5 at Maulana Azad National Institute of Technology, Bhopal.
  - Short Term Training Program on "Information Security and Digital Forensics" organized by Department of Computer Engineering, Army Institute of Technology, Pune from 14<sup>th</sup> December 2020 to 19<sup>th</sup> December 2020
  - FDP on "Artificial Intelligence" from 2020-12-7 to 2020-12-11 at Sri Sairam Engineering College.
  - FDP on "Photonics" from 2020-11-3 to 2020-11-7 organized by Indian Institute of Information Technology Ranchi.
  - Faculty Training in "Antenna Design for Consumer Electronics" using CST 2021-04-17 to 2021-04-30
  - 5 Day on line FDP on Inculcating Universal Human Values in Technical Education 2021-05-17 to 2021-05-21
  - AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence in Electronic Design Automation" from 09/08/2021 to 13/08/2021
  - 3 Days FDP on "Examination Reforms" on online mode from 08/07/2021 to 10/07/2021
  - AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "6G Wireless Communication" from 20/12/2021 to 24/12/2021
  - 5-Day Face-to-Face UHV-II FDP from 26/07/2022 to 30/07/2022

**Publications: National****Conferences:**

<b>S. No</b>	<b>Title</b>	<b>Venue/Date</b>
1	Optical Vector Signal Generation(SSB)using EDFA.	Easwari Engg. College, Chennai., March,,2010
2	An approach to wireless service system using WDM-ROF-PON technology	Velammal Engg. College, Chennai, March2011
3	A novel WDM-ROF-PON architecture for wireless service	IETE Chennai centre & Prathyusha Institute of Tech, March2011
4	Design of a novel WDM-ROF-PON architecture for wireless service	Anna university of Technology, Trichy, March 2011
5	An approach to bidirectional transmission system using WDM-ROF-PON technology	Sri Sairam Engg College, Chennai, 29.4.11
6	Design and Simulation of Planar Meandered Dipole Antenna	K.S.R College of Engineering, Tiruchengode
7	Design and Simulation of UWB Dielectric Resonator Antenna in Different Geometrics	K.S.R College of Engineering, Tiruchengode
8	Efficient channel-Adaptive MIMO Detection scheme	RMKEngineeringCollege,21.4.12
9	Swarmbots: Autonomous Collaborative Multi Robot color map exploration for first- Responder and military operations	Bannari Amman Institute of Technology23.2.12
10	Electronically Tunable Diplexer with C-slot Microstrip Antenna for WiMax Front-end Modules	R.M.D Engineering College
11	Implementation of an Electronically Tunable Diplexer Integrated with a Dual Band Microstrip Antenna for WiMAX Transceivers	National Conference on Digital Convergence

<b>International Conference</b>		
<b>Sl. No.</b>	<b>Title</b>	<b>Venue/Date</b>
1	Comparison of Optical Vector Signal Generation with oSSB Technique using Duo-Binary Modulation, oSSB Technique using EDFA and oVSB format based on SPM effect without using SOA.	Italy,May2010
2	Telecare system using cable TV Network.	Sri Sairam Engg. College./ Aug-2004.
3	Mapping of 40MHzMIMOSDM-OFDMBaseband Processing on Multiprocessor SDR Platform	Sri Sairam Engg. College./ Dec- 2009
4	Implementation and Analysis of Electronically Tunable Diplezer for WiMAX Front-End Modules	Adhiparasakthi Engineering College
5	Design and Analysis of a circular aperture patch antenna with a common mode noise rejection filter	International Conference on Computational systems in Engineering and Technology
6	Fake Profile Identification in Social Network using Machine Learning and NLP	IC3IOT 2022
7	Gesture- Controlled Contactless Switch With OLED Display	IC3IOT 2022
8	Leaf disease identification using machine learning models	AIP Conference 2022
9	Comparative Analysis of Performance Characteristics Between Flexible Single Element Patch Antenna and Flexible Two-Element Array Antenna	IC3IOT 2024

### **Journals**

<b>Sl. No.</b>	<b>Title</b>	<b>VOL./Date</b>
1.	Adaptive MIMO-OFDM scheme with reduced computational complexity and Improved capacity	Vol.9,No.3,ISSN1947-5500,Pg198-205 March11
2	Design and Analysis of a circular aperture patch antenna with a common mode noise rejection filter based on defected ground structure for narrowband	ISSN:2278-0181 Pg17-21

3	An Aperture Coupled Feed Approach to Gain And Bandwidth Enhancement of Microstrip Patch Array Antennas	ISSN:2319-7242,Volume 2 Issue 4 April, 2013 Page No.1298-1301
4	Staked T Lines Integrated Circular Microstrip Tri-band Wearable Antenna for GSM, ISM and NATO Applications	ISSN:2278-3075 Volume-9 Issue-41735-1739
5	Automatic Detection of Diabetic Retinopathy using Support Vector Machine	ISSN:1546-1963 Volume-17 Issue-12 5582-5589
6	Compact Printed Planar Eye Shaped Dipole Antenna for Ultra-Wideband Wireless Applications	ISSN:2708-9967 Volume-25 Issue-5 913-918
7	Performance Analysis of a Compact Eye-Shaped Slot Antenna for MIMO UWB Applications	ISSN: 1572-9206 VOL. 33, NO. 2, 2024 523-536
8	Machine Learning based Instruction Detection System Towards Cyber Security	ISSN: 1314-8060 VOL. 38, NO. 5, 2025 699-712

### Online Courses attended

- Sustainable Development in the 21st Century with Ban Ki-moon
- The Sustainable Development Goals–A global, trans disciplinary vision for the future
- Beyond the Sustainable Development Goals(SDGs): Addressing Sustainability and Development
- Digital Transformation
- Smart Device & Mobile Emerging Technologies
- Computational Vision
- Interpersonal, Developmental, and Evolutionary Perspectives of the Mind
- Methods for Solving Problems
- Introduction to Programming with MATLAB
- Excel/VBA for Creative Problem Solving, Part1
- Introduction to Satellite Communications
- Engineering Project Management: Initiating and Planning
- Introduction to Virtual Reality
- What is “the mind” and what is artificial intelligence?
- Collaborative Robot Safety: Design & Deployment
- The absolute beginners guide to Data Science
- IoT Foundation
- Foundational Artificial Intelligence
- Robotic Process Automation
- Global Navigation Satellite System
- Remote Sensing of land Degradation

## **NPTEL Courses**

### **▪ Optical Domain**

- Optical Engineering
- Introduction to Photonics
- Photonic integrated circuit
- Applied Electromagnetics For Engineers
- Optical Wireless Communications for Beyond 5G Networks and IoT

### **▪ Faculty Domain**

- Ethics in Engineering Practice
- Training of Trainer
- Teaching And Learning in Engineering (TALE)
- National Accreditation and Teaching-Learning in Engineering
- Introduction to Professional Scientific Communication
- OBE and Accreditation

### **▪ Others**

- Antennas
- Road Map for Patent Creation
- Microwave Integrated Circuits