FACULTY PROFILE

Name **: MATHIVANAN. S**

Date of birth and Age **: 07.07.1986** and **35 years**

Academic Qualification and Performance :

Degree/ Diploma	Programme /Specialization	% of Marks/CGPA	Class	Month & Year of passing	University
B.E	E.C.E	8.55	I	April 2007	ANNA UNIVERSITY
M.E	Communication Engineering	9.54	I	May 2015	ANNA UNIVERSITY
Ph.D	Information and Communication Engineering	NA	NA	Dec 2023	ANNA UNIVERSITY

EMPLOYMENT DETAILS:

Name of the College/Industry	Position	Experience (From - To)
ORACLE FINANCIAL SERVICES SOFTWARE LIMITED	ASSOCIATE CONSULTANT	13.08.2007 – 24.07.2009
MAHARAJA ENGINEERING COLLEGE	LECTURER	10.09.2009 – 06.03.2010
COIMBATORE INSTITUTE OF TECHNOLOGY	ASSISTANT PROFESSOR	18.03.2010 – 13.04.2017
BHARATH SANCHAR NIGHAM LIMITED	J.E - TRAINEE	17.04.2017 – 17.05.2017
GOVERNMENT COLLEGE OF TECHNOLOGY	ASSISTANT PROFESSOR	22.05.2017 – till date

Total Experience (In Academics): 15 Years 0 Months
Total Experience (In Industry) : 2 Years

PUBLICATION IN INTERNATIONAL/NATIONAL JOURNALS/CONFERENCES:
JOURNAL:

International:

1. S.Mathivanan, G.Christina, A.Rajeswari, 2015, 'Analysis and Simulation of Wideband 24 GHz Planar Microstrip Monopole Antenna', International Journal of Computer Applications, Vol.975, pp.84-87.
2. G.Christina, A.Rajeswari, S.Mathivanan 2017, 'Real Time Analysis of a 24 GHz Planar Microstrip Antenna for Vehicular Communications', Wireless Personal Communications journal, Vol.97, pp.1129-1139. DOI: 10.1007/s11277-017-4557-9.

3. **Mathivanan, S.** & Rajeswari, A. 2022, 'Omnidirectional Microstrip MIMO Antenna for Intelligent Vehicle RADAR Communication' Wireless Personal Communications, vol. 127, no. 4, pp. 3407–3421. Impact Factor: 2.017**.** DOI: 10.1007/s11277-022-09923-4
4. **Deepa M, Mathivanan, S.**, 2025,'Design of Compact UWB MIMO Antenna for mm-Wave Applications', International Journal of Scientific Development and Research, Vol.10, Issue 3, pp-734-739. DOI: http://doi.one/10.1729/Journal.44616

CONFERENCES:

International:

1. Presented a paper titled "Design and Analysis of Single Wideband 24 GHz Planar Microstrip Antenna for Vehicular Communications" in International Conference on Telecommunication Technologies and Management (ICTTM-2015) held April 11-12, 2015 at Bharti School of Telecommunication Technology and Management, **IIT Delhi**, India, published in the conference proceeding by Emerald Publishers, New Delhi.
2. Presented a paper titled "Mutual Coupling Reduction in an Antenna Array using two parasitic Microstrips" in the two days International conference on Electronics and Telecommunication Systems (ICETS'18) organized by Department of ETE of Karpagam College of Engineering held during 22nd -23rd March 2018.
3. Presented a paper titled "Implementation of Matrix Vector Multiplication using Pipelined Architecture of DA" in the International Conference on Emerging Trends in Signal Systems and Information (ICETSSI 2021) organized bt Nehru College of Engineering and Research Centre on 28.05.2021.
4. Presented a paper titled "Automatic Traffic Sign Detection and Recognition using HOG and SVM Classifier" in the International Conference on Emerging Trends in Signal Systems and Information (ICETSSI 2021) organized bt Nehru College of Engineering and Research Centre on 28.05.2021.
5. Presented a paper titled "Effective Automatic Lung Semantic Segmentation of CT Images using U-NET model" in the International Conference on Emerging Trends in Signal Systems and Information (ICETSSI 2021) organized bt Nehru College of Engineering and Research Centre on 28.05.2021.
6. Presented a paper titled "Performance Enhancement of Circular Microstrip Array for MIMO Communication" in the 12th International conference on Science and Innovation Engineering held on 5th June 2022 at Jawahar Engineering College, Chennai.

National:

1. S.Mathivanan, A.Rajeswari, G.Christina, "Analysis and Simulation of Wideband 24 GHz Planar Microstrip Antenna" a paper is presented in National conference on Information and Communication Technologies (NCICT '15) held at Coimbatore Institute of Technology, Coimbatore during 19th-20th, February, 2015.
2. Presented a paper titled "Mutual coupling reduction in Circular Microstrip Patch Antenna Array using DGS" in one day National Conference on Innovative Patterning Technologies in Electronics & Communication organized by Hindustan Institute of Technology held on 15th March 2019.
3. Presented a paper titled "Physical design of 256 × 256 Synchronous Memory cell Array with PLL as a Clock Generator" in 8th national Conference on

Advancements in Electrical Sciences organized by Department of EEE of SNS College of Technology, Coimbatore on 11.04.2018.

4. Presented a paper titled "Design and Implementation of Charge pump based phase frequency detector for low jitter PLL" in the National Conference on Recent Trends in Communication and Instrumentation Systems (NCCIS'18) organized by Department of ECE&EIE on 20.04.2018.
5. Presented a paper titled "Detection of Spoofed Speech with Modified Relative Phase Information" in the 11th National Conference on Signal Processing, Communication and VLSI Design NCSCV'19 held on 4th and 5th April 2019, organized by the Department of ECE, Anna University Regional Campus, Coimbatore.
6. Presented a paper titled "RF Amplifier Design with Enhanced Performance" in one day national Conference on Innovative Technologies in Computer Science organized by Department of CSE on 10th March 2020.
7. Presented a paper title "Design of compact UWB MIMO Antenna for mm-WAVE Applications", in one day National Conference on Advanced Computing and Communication Systems at GCT on 27.03.2025.

GUEST LECTURE DELIVERED:

1. Delivered a guest lecture on 'Arrays for Signal Processing' in UGC Sponsored Faculty Development Programme on 16th October 2015 held at CIT, Coimbatore.
2. Delivered a guest lecture on 'Antenna Arrays' in Anna University Sponsored Faculty Development Programme on 18th December 2015 held at Velalar College of Engineering, Erode.
3. Delivered an Expert Lecture to Government Engineering College, Jagdalpur students from 7th to 9th Feb 2019.
4. Delivered a guest lecture titled "RF System Design Concept" on 06/12/2019 at a six day FDTP on EC8651-Transmission Lines and RF Systems held at PSGiTECH during 2nd -7th December 2019.
5. Delivered a technical lecture on "Characteristics of Low Power MIMO antenna and its design techniques" in All India Seminar 'Design of Advanced 5G antenna and prototype Technologies' held at CIT on 03.05.2024.

PARTICIPATION IN CONFERENCES/ SEMINARS/ WORKSHOPS:

- **CONFERENCES / FDP/ SEMINARS / WORKSHOP ORGANIZED**:

1. Organized TEQIP III sponsored a two day workshop on **"Internet of Things (IoT) using Raspberry Pi"** in Department of ECE during 19th – 20th September 2018.
2. Organized TEQIP III sponsored one day **"Soft skills training cum workshop"** in Department of ECE on 8th August 2019.
3. Organized TEQIP III sponsored **Employability Skills Training** during 4th – 7th March 2021.
4. Organized an online webinar "**Industrial Applications of HFSS Tool**" on 05.10.2021.
5. Organized Tamilnadu State Government Sponsored Online FDP on "**Recent Trends in Communication and Computing with 5G**" held during 13th-17th December 2021.
6. Organized one day webinar on "Evolution of Wireless Technologies" on 29.03.2022
7. Organized two day workshop "Brain Control Interface" during 21st – 22nd November 2022.
8. Organized 5th National Conference on Advanced Computing and Communication Systems (NCACCS – 2024) on 15.03.2024.

9. Organized one day webinar on “Securing Embedded Systems around Us” through Google platform on 10.09.2024.

- **FDP/ SEMINARS / WORKSHOP/SHORT-TERM COURSES PARTICIPATED**:

1. Participated in IEEE AP-S Seminar and Poster Session on Recent Advances in Antennas held on 18th August 2017 at PSG College of Technology, Coimbatore.
2. Participated in AICTE sponsored two week FDP on “Smart Power Grid Technologies” organized by the Department of EEE, Government College of Technology, Coimbatore from 17th to 30th November 2017.
3. Participated in one day workshop on “PHASED ARRAY DESIGN SIMULATION WITH KEYSIGHT SOLUTION” conducted by Department of ECE, PSG Institute of Technology and Applied Research, Coimbatore on 07.02.2018
4. Participated in TEQIP – III Sponsored workshop on “ONLINE e-PROCUREMENT” at GCT on 06.04.2018
5. Participated in Two days workshop on “Technical Writing and Publishing with Advanced Computer Tools: Hands-on Training” held at IIITDM, Kancheepuram during 8th – 9th September 2018.
6. participated in International Symposium on Innovation in Teaching Learning Process in Engineering & Technology under TEQIP III jointly organized by GEC Jagdalpur, Chattisgarh and GCT Coimbatore during 7-9th February 2019
7. Participated in AICTE sponsored two week FDP on “Advanced RF Circuit Design and Software Defined Radio” organized by the Department of ECE, Government College of Engineering, Salem from 12th to 25th June 2019.
8. Participated in one week Management Development Programme for Teaching Staff organized by Engineering Staff College of India during 26th – 30th August 2109 at Coorg.
9. Completed NPTEL-AICTE FDP on “Microwave Theory and Techniques” with a consolidated score of 77% during Jul-Oct 2019.
10. Participated in Ministry of Electronics and Information Technology (MeitY) sponsored FDP on “Advances in Practical RF Antenna Design” Organized by E&ICT academy of NIT, Warangal and Sree Vidyanikethan Engineering College from 25th to 30th November 2019.
11. Participated in Tamilnadu state Government sponsored two weeks FDP on “Research Challenges in Signal and Image Processing” from 17.02.2020 to 01.03.2020.
12. Successfully completed 3 weeks Industrial Training on “COMMUNICATION AND NETWORKING TECHNOLOGIES” from 01.06.2020 to 19.06.2020 at BSNL, Coimbatore.
13. Participated in TEQIP-III sponsored one day webinar on “Preparing ourselves on second cycle of NBA Accreditation” on 11th July 2020.
14. Participated TEQIP –III Sponsored online workshop on “Teach 2 Influence” organized by IQAC on 11.07.2020, 18.07.2020 and 25.07.2020.
15. Participated in CEP course on Introduction to Environmental Engineering conducted for GCT by IIT Bombay during July 15-24, 2020.

16. Participated in TEQIP-III sponsored one day webinar on “Digital Teaching – How to handle effective online classroom” organized by IQAC on 11.08.2020.
17. Completed AICTE-ATAL sponsored online FDP on “Wearable Devices” from 30.11.2020 to 04.12.2020 organized by Karunya Institute of Technology and Sciences.
18. Participated TEQIP III sponsored two days workshop on “National Education Policy 2020” during 08th-9th March 2021.
19. Participated in online webinar on “Design and Implementation of Curriculum as per NEP 2020” organized by IQAC on 29.09.2021 & 01.10.2021.
20. Successfully Completed AICTE-NITTT conducted 8-module certification course for Inductee teachers of Technical Instituitions during Feb 2021.
21. Successfully Completed Ministry of Education- PMMMNMTT sponsored 4 weeks Induction/Orientation Programme for Faculty in Universities/Colleges/Instituites of Higher Education from 20th Jan to 19th Feb 2022 and obtained Grade A+.
22. Naan Mudhalvan - TOT Faculty Orientation Programme on "Cyber Security" at Infosys Bengaluru on 14.10.2022
23. Visited to M/s. Vasantha Advanced Systems industry and monitored Students as Internship Co-ordinator ON 07.07.2022 & 18.07.2022.
24. Participated in UGC - Malviya Mission Teacher Training Programme (MM-TTP) on "NEP 2020 Orientation & Sensitization Programme"organized by CIT, Coimbatore from 12.02.2024 to 21.02.2024.
25. Participated in three day workshop on ‘Cadence Analog, Digital and Mixed signal flow’ organized by ECE department of GCT in association with entuple Technologies, Bengaluru from 26th – 28th Feb 2024.
26. Acted as Conference Chairperson in 5th National Conference on Advanced Computing and Communication Systems (NCACCS-2024) held on 15.03.2024 organized by ECE Department of GCT.
27. Completed Industrial training programme at RND Softtech Private Limited, Coimbatore from 02.05.2024 to 16.05.2024.
28. Participated in three day workshop on ‘Cadence Semi-custom and Full-custom IC design’ organized by ECE department of GCT from 09th – 11th September 2024.
29. Naan Mudhalvan - Professional Readiness For Innovation, Employability And Entrepreneurship, Cyber Security, Network Engineering, Microsoft Office Fundamentals Training

COURSES TOUGHT:

Course UG/PG	**Year/ Semester**	**Title of Project Guided**	**Pass Percentage**
UG	2017-18 Odd	16LPC305 –Electronic Circuit Design 12L703 Wireless Communication	91%
UG/PG	2017-18 Even	16LES206 – Electron Devices 16AEPC06 – Analysis and Design of Analog Integrated Circuits	90.5%

		16LES2Z9 – Programming in C Lab	100%
UG/PG	2018-19 Odd	16LPC503- Digital Communication 12L703- Wireless Communication 18VLPC03 – Digital CMOS VLSI Design Lab	99% 94% 100%
UG/PG	2018-19 Even	16LPC405- Analog Integrated Circuits 16LPC601 – Antennas and Wave Propagation 18AEPC06 – Embedded System Design Lab	85% 97% 100%
UG	2019-20 Odd	18AEPC01 – Advanced Digital Systems Design 16LPC701 – Microwave and RF Engineering 16LEE707 – Microwave, RF and Optical Lab	97% 78.6% 100%
UG	2019-20 Even	18LES403- Analog Circuits 16LPC601 – Antennas and Wave Propagation 16LEE609 – Embedded System Design Practice lab	100% 100% 100%
UG	2020-21 Odd	18LPC303-Electron Device and Circuits 16LPC702- Microwave and RF Engineering 16LEE707 – Microwave RF and Optical Lab	100% 100% 100%
UG	2020-21 Even	18LPC406- Analog Integrated Circuits 18LPC603 – Antennas and Wave Propagation 18LEE608 – Embedded Systems lab	100% 100% 100%
UG/PG	2021-22 Odd	18LPC702- Microwave Engineering 18VLPE17- Reconfigurable Architectures 18LPC707 – Microwave and Antenna Lab	100% 100% 97%
UG	2021-22 Even	18LES403 – Analog Circuits 18LPC603 – Antennas and Wave Propagation 18LEE608 – Embedded Systems Laboratory	90% 100%
UG	2022-23 Odd	18LPC702 – Microwave Engineering 18LOE710 – Mobile Communication (OE-1) 18LPC707 – Microwave and Antenna Lab 18LEE710 – Experiential Project Based Learning (Naan Mudhalvan) Cyber Security (Naan Mudhalvan)	94% 100% 100% 100% 100%
UG	2022-23	18LES403 – Analog Circuits	100%

	Even	18LPC603 – Antennas and Wave Propagation 18LPC408 – Analog Circuits and IC Lab 18LVA6X2 – Network Engineering (Naan Mudhalvan)	100% 100% 100%
UG	2023-24 Odd	22LPC302 – Analog Circuits 18LPC702 – Microwave Engineering 18LPC707 – Microwave and Antenna Lab 22ZVA301 – Microsoft Diversity Skilling Program	97% 100% 100%
UG/PG	2023-24 Even	22LPC406 – Analog Integrated Circuits 23VLPC05 – Analog IC Design 22LPC411 – Analog and Digital Integrated Circuits Lab	 100% 100%
UG	2024-25 Odd	22LPC513 – Control System Engineering 18LPC702 – Microwave Engineering 18LPC707 – Microwave and Antenna Lab	98.4% 96.7% 100%
UG	2024-25 Even	22LPC620 – Antennas and Wave Propagation 22LPE601 – Information Theory and Coding 22LPC411 – Analog and Digital IC Lab	100% 100% 100%
UG	2025-26 Odd	22LPC725 – Microwave and RF Engineering 22LPE718 – Satellite Communication 22LPC727 – Advanced Communication Systems Lab	Ongoing

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES/BODIES:

1. AMIETE - Associate Member of Institution of Electronics and Telecommunication Engineers (IETE).

I hereby declare that all the above information furnished is true to the best of my knowledge and belief.

(S.MATHIVANAN)
Signature