**CURRICULUM VITAE**


# Mr. S. SEVAGAN, M.E, M.Tech., (Ph.D),

**ASSISTANT PROFESSOR,**
**DEPARTMENT OF ECE,**
**UNIVERSITY COLLEGE OF ENGINEERING,**
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**TIRUCHIRAPPALLI - 620 024, TAMIL NADU, INDIA.**

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## RESEARCH INTEREST:

- Antennas & Wave Propagation
- RF & Microwave Engineering
- Optical Communication

## EDUCATIONAL QUALIFICATIONS:

| Course | Specialization | University | Year of Passing | CGPA/% |
|---|---|---|---|---|
| Ph.D | Antenna Design | National Institute of Technology, Tiruchirappalli | Pursuing | **9** **Distinction** |
| M.E | Communication Systems | Anna University, Chennai | 2021 | **8.73** **First Class** |
| M.Tech | Laser and Electro Optical Engineering | Anna University, Chennai | 2013 | **8.97** **Distinction** |
| B.E | Electronics and Communication Engineering | Anna University, Chennai | 2011 | **77** **Distinction** |

## TEACHING & RESEARCH EXPERIENCE:

| Name of the Post | Name of the Institution | Period |
|---|---|---|
| Assistant Professor | University College of Engineering, BIT Campus, Anna University, Tiruchirappalli. | 02/12/2025 – Till Date |
| Research Scholar (SRF) | National Institute of Technology, Tiruchirappalli | 09/08/2023 – 01/12/2025 |
| Assistant Professor | SRM Valliammai Engineering College, Chennai. | 17/02/2022 – 08/08/2023 |
| Assistant Professor | St.Joseph's Institute of Technology, Chennai. | 16/06/2014 – 24/03/2018 |
| Assistant Professor | DMI College of Engineering, Chennai. | 29/07/2013 – 30/04/2014 |
| | **Total Experience** | **8 Years 5 Month** |

## INTERNATIONAL RESEARCH COLLABORATION:

Collaborated with **Carleton University, Ottawa, Canada**, under the SPARC Project with Associate Professors Dr. Shulabh Gupta and Dr. Ravi Prakash, Department of Electronics.

**RESEARH FELLOWSHIP:** HTRA Fellowship, MoE, Government of India.

**GATE EXAM:** 2019 GATE Exam Qualified.

**RESEARH TOPIC:** Integration of Microwave and mm-Wave MIMO Antenna for 6G Communications.

## ACADEMIC & ADMINISTRATIVE RESPONSIBILITIES:

- ✓ Sponsored FDP/Faculty Workshops Organized: **15**
- ✓ **Deputy Warden** of Boys Hostels
- ✓ Faculty In-charge for **Guest Lectures**
- ✓ Faculty In-charge for **Industrial Visits**
- ✓ Faculty In-charge for **FDP/Workshop/STTP**
- ✓ Faculty In-charge for **Students Counselling Cell**
- ✓ Co-ordinator of **Entrepreneurship Development Cell**
- ✓ Faculty In-charge for **Department Exam Cell**
- ✓ Faculty In-charge for **NBA Criteria: 6**
- ✓ Member of **Quality Improvement Cell**
- ✓ Active person & captain in **NSS & RRC**
- ✓ Question Paper Setter for University Examinations – Anna University
- ✓ External and Internal Examiner for University Examinations – Anna University

## PUBLICATIONS:

1. Naik, B.C., **Sevagan, S**., et al. Hybrid Wafer Defect Detection and Segmentation Using Verilog-Based Image Preprocessing and Deep Learning Architectures. Arab J Sci Eng (2025). https://doi.org/10.1007/s13369-025-10870-y. **SCI Indexed.**
2. **S.Sevagan,** et.al., "A Filterless Generation of Optical Millimeter Wave Signal Based on Frequency 16-Tupling Using Cascaded Polarization Modulators", IETE Journal of Research, 69(11), 7796–7802 (2023).https://doi.org/10.1080/03772063.2022.2043789. **SCI Indexed.**
3. **S.Sevagan,** et.al., "Cascade configuration of two dual parallel polarization modulators with frequency 16 tupling for photonic signal generation", Optoelectronics and Advanced Materials - Rapid Communications, 16, 7-8, July-August 2022, pp.281-286 (2022). **SCI Indexed.**
4. **S.Sevagan,** et.al., "A Low-Profile Compact Circularly Polarized Broadband mm-Wave Antenna for Indoor IoT Applications," 2025 IEEE Devices for Integrated Circuit (DevIC), Kalyani, India, 2025, pp. 681-685, doi: 10.1109/DevIC63749.2025.11012377. **Scopus Indexed.**
5. R. Gupta, B. C. Naik and **S. Sevagan**, "High-Performance Accelerator for Post-Quantum Cryptography Using Crystals Dilithium with Area Optimization," 2025 Devices for Integrated Circuit (DevIC), Kalyani, India, 2025, pp. 696-701, doi: 10.1109/DevIC63749.2025.11012511. **Scopus Indexed.**
6. **S.Sevagan,** et.al., "Photonic Generation of Triangular Shaped Microwave Pulses Using Stimulated Brillouin Scattering (SBS)", ICASISET, EAI, (2022), DOI: 10.4108/eai.1692022.2304194. **Scopus Indexed.**
7. **S.Sevagan,** et.al., "Generation of Millimeter Wave using Four Wave Mixing: Review" in International conference on Computer Communication and Power Systems, May 2020.
8. **S.Sevagan,** et.al., "Analysis of Four Wave Mixing Based Wavelength Conversion in Single Mode Fiber" in International Conference on Electrical and Electronics Engineering & Technology, April 2013.

## STTP/FDP/WORKSHOPS ORGANIZED:

1. 1 Week SPARC Workshop on Advanced Fabrication Techniques for Flexible and 3D Printed Antennas.
2. 2 Week SPARC Short Term Course on Introduction to Electromagnetic Metasurfaces and General Periodic Structures.
3. 1 Week SERB High-End Workshop on RF circuit and 3D printed Antenna – Fundamental to advanced design concept and tools for smart wireless applications.
4. 1 Week SERB High-End Workshop on Opportunistic Control of Advances in Antenna Design.
5. 1 Week FDP on Principles of RF and Microwave Signal Propagation.
6. 1 Day Seminar on Advances in Optics & Photonics.
7. 2 Days Value Added Course on Optical System Design using Optisystem Software.

8. 1 Day National Conference on Emerging Trends in Communication Engineering, Computing Systems and Applications (ETCECSA 2022).
9. 3 Days IEEE Sponsored National Level Faculty Workshop on MATLAB Integration with FPGA in Image Processing & Digital Communication.
10. 1 Week Anna University Approved FDTP on EC 6703 - Embedded and Real Time Systems.
11. 2 Days IEEE Sponsored FDP on Advances in Robotics and Autonomous Systems.
12. 2 Days Faculty Workshop on Real Time Signal & Image Processing Using Xilinx VIVADO System Generator.
13. 1 Week Anna University Sponsored FDTP on EC 6703 - Embedded and Real Time Systems.
14. 1 Day Workshop on MATLAB with HDL Codec & Neuro Fuzzy.
15. 1 Day Workshop on Green Communication.

## STTP/FDP/WORKSHOPS ATTENDED:

1. 1 Week IEEE FDP on Re-configurable and Compact Antennas: Enabling Real-Time Solutions in Wearable and Healthcare Technologies.
2. 1 Week SPARC Workshop on Advanced Fabrication Techniques for Flexible and 3D Printed Antennas.
3. 2 Days IEEE International Conference on Devices for Integrated Circuit (DevIC) 2025.
4. 2 Weeks SPARC Short Term Course on Introduction to Electromagnetic Metasurfaces and General Periodic Structures.
5. 1 Week ATAL FDP on mm-Wave Technologies.
6. 1 Week ATAL FDP on Practical Insights into RF System Design.
7. 1 Week ATAL FDP on Reconfigurable Intelligent Surfaces for 6G Wireless Communication: Fundamentals to Future Research Directions.
8. 1 Week ATAL FDP on Recent Research Trends in VLSI Technology for 5G Antenna.
9. 2 Week ATAL FDP on Antenna & RF Components for Next Gen Wireless Applications.
10. 1 Week Short Term Course on Microstrip Patch Antenna Design Techniques and Tools.
11. 1 Week FDP on Advanced Antenna Technologies for Sensing and Imaging Applications.
12. 3 Days IEEE Workshop on Antenna Simulation Testing and Evaluation.
13. 1 Week SERB High-End Workshop on RF circuit and 3D printed Antenna – Fundamental to advanced design concept and tools for smart wireless applications.
14. 1 Week SERB High-End Workshop on Opportunistic Control of Advances in Antenna Design.
15. 3 Days IEEE International Workshop on Antenna Design Technologies for Intelligent Transport Systems.
16. 1 Week FDP on Principles of RF and Microwave Signal Propagation.
17. 1 Week FDP on Research Trends in Optical Technologies and its Applications.
18. 1 Week FDP on Digital Signal Processing, Biomechanics and Wearable Systems.
19. 1 Week FDP on Analog Electronics for Embedded Systems and Wireless Sensor Networks.
20. 1 Day NAAC National Seminar on Quality Enhancement Sustenance Measures in Higher Education: Innovation, Trends and Challenges.
21. 1 Week Anna University FDP on EC 8702 – Ad-hoc and Wireless Sensor Networks.
22. 1 Week IETE FDP on Analog electronics and Signal Processing for Wireless Communication.
23. 1 Week STTP on Advances in Optical Fiber Communication by IIT Madras.
24. 1 Week In-plant Training on Telecommunication at NLC.
25. 2 Days DST Sponsored Hands-on Training on Network Simulator (NS2).
26. 2 Days STC on Automation of Physics Experiments conducted by Indian Laser Association.
27. 3 Days IETE and OSI Sponsored Workshop on Modelling and Simulation of Next Gen OCN.
28. 2 Days National Laser Symposium.
29. 1 Day Introduction to Research Methodologies conducted by IIT Bombay.
30. 1 Day Workshop on MEMS conducted by Anna University.
31. 1 Day Workshop on Solar Energy conducted by Anna University.
32. 2 Days National level Seminar on Crystal Growth conducted by Anna University.