



Dr. Sajitha V R

Assistant Professor in Basic Sciences and Humanities

Administrative Responsibilities

Institute level:

Department Level:

Education Summary

<u>PhD:</u>	PhD in Microwave Electronics Cochin University of Science and Technology (2018)
<u>Post-Graduation:</u>	MSc in Electronic Science (2011) Cochin University of Science and Technology Marks: 8.51
<u>Graduation:</u>	BSc in Electronics(2009) Prajyoti Niketan College, Thrissur Marks: 91%

Employment History

Teaching, Research, Industry

- Senior Technical Lead / Project Coordinator – Radar Systems & Software Bangalore, India | 2018-2023
 - Radar Packaging Simulation Lead
 - Radar Perception Software Developer
 - Scene Mining for Perception Stack Development
 - E2E Perception Stack Development
 - Innovation Leader – Women in Innovation (WINN)
 - Project Coordinator – MBRDI-IIT Bombay Collaboration
- Assistant Professor MES College (6 months-under FDP) Marampally and CAS Nattika(1year), Kerala

Journal/Papers Published

1. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, K. Vasudevan, and P. Mohanan
Compact Cross Loop Resonator Based Chipless RFID Tag with Polarization Insensitivity
Microwave and Optical Technology Letters, Vol. 58, No. 4, April 2016, pp. 944–946
2. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, R. Vivek, K. Vasudevan, and P. Mohanan
Polarization Independent Chipless RFID Tag
Microwave and Optical Technology Letters, Vol. 57, No. 8, Aug 2015, pp. 1889–1894
3. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, and P. Mohanan
Compact Chip Inductor Loaded Multiband Antenna
European Journal of Advances in Engineering and Technology (EJAET), Vol. 2, No. 4, pp. 77–80
4. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, and P. Mohanan
Multiresonator Circuit Using $\lambda/4$ SIR for Chipless RFID Tags
International Journal on Cybernetics & Informatics (IJCI), Vol. 5, No. 2, April 2016, pp. 357–364
5. T. K. Roshna, U. Deepak, **V. R. Sajitha**, K. Vasudevan, and P. Mohanan
Modified Bowtie Antenna for Zeroth Order Resonance
PIER C, Vol. 48, pp. 45–52, 2014
6. T. K. Roshna, U. Deepak, C. M. Nijas, **V. R. Sajitha**, and P. Mohanan
High Gain Compact Coplanar Stripline Fed Antenna for Wireless Application
Microwave and Optical Technology Letters, Vol. 56, No. 8, Aug 2014
7. T. K. Roshna, U. Deepak, **V. R. Sajitha**, and P. Mohanan
Coplanar Stripline Fed Compact UWB Antenna
Electronics Letters, Vol. 50, No. 17, pp. 1181–1182, Aug 2014
8. T. K. Roshna, U. Deepak, **V. R. Sajitha**, K. Vasudevan, and P. Mohanan
Compact UWB MIMO Antenna with Reflector to Enhance Isolation
IEEE Transactions on Antennas and Propagation, Vol. 63, No. 4, April 2015, pp. 1873–1877
9. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, and P. Mohanan
Chipless RFID Tag Based on Stepped Impedance Resonators
APSYM, CUSAT, Kochi, India, Dec 2014
10. **V. R. Sajitha**, C. M. Nijas, T. K. Roshna, and P. Mohanan
Multiresonator Circuit Using $\lambda/4$ SIR for Chipless RFID Tags
ICCC 2016, Kerala, India
11. C. M. Nijas, **V. R. Sajitha**, and P. Mohanan
Properties of Stepped Impedance Resonator and Its Application in Chipless RFID Tag Design
EuCAP 2015, Lisbon, Portugal

12. C. M. Nijas, **V. R. Sajitha**, R. Vivek, P. Mohanan, Binu Paul, and dS Mridula
Spectral Extraction of Chipless RFID Tag Using Time Domain Analysis
IEEE AP-S / URSI Symposium, Vancouver, Canada, 2015
13. C. M. Nijas, P. V. Vinesh, **V. R. Sajitha**, P. V. Anila, and P. Mohanan
Optimisation of Quarter Wave Microstrip Open Stub Resonators for Chipless RFID Applications
IEEE AP-S / URSI Symposium, Orlando, USA, 2013
14. Shari Mohan, P. R. Harikrishnan, **V. R. Sajitha**, C. M. Nijas, and P. Mohanan
Chipless RFID Tag with SMD Inductors
ICIST 2014, Cochin, India
15. J. C. Dash, M. Parikh, N. Modi, J. Mukherjee, **V. R. Sajitha**, T. SaiDeepak, and V. Dhoot
Performance Evaluation of Automotive Radar in the Presence of Bumper with Multiple Paint Layers Using Bidirectional Loss Model
15th European Conference on Antennas and Propagation (EuCAP), IEEE, 2020, Germany

Area of Interest

- RADAR perception
- RADAR integration
- RF, Microwave Electronics
- Data Mining

Achievements

- Xstream Award – Radar Packaging Collaboration (MBRDI)
- Bronze Award – Pioneering Spirit for IIT Bombay Collaboration(MBRDI)
- Granted Patent Award (2025) – Innovation Contributions
- Net (2012)
- KSCSTE Fellowship (2011)
- University First Rank – B.Sc. Electronics

FDPs Attended
