

Dr. Usha L

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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2022	NITK	Dielectric resonator antenna
2	M.Tech	2008	SSIT	Digital Electronics
3	B.E	2002	SSIT	Electronics and Communication

Professional Experience

	Date (from-to)	Designation	Organization
1	2013-till date	Assistant Professor	SIT, Tumkur
2	2009-2013	Assistant Professor	SSIT, Tumkur
3	2005-2006	Lecturer	GVIT, KGF

Positions held

1. Time Table coordinator
2. Technical Seminar Coordinator
3. Halcyon Event Coordinator
4. Technium Coordinator
5. Major project coordinator
6. BOE Coordinator
7. Test Coordinator

Affiliations of Professional organizations

- ISTE Member

Awards and Honors

- BITES Best PhD Thesis Award – 2023.

Courses Taught

Network Analysis, Optical Fiber Communication, Field Wave and Transmission Lines, Wireless Communication, Data Communication Networks, Optical Fiber Communication and Networking, Analog Electronics circuits, Analog and Mixed Mode VLSI.

Research Areas

- Microwave and RF devices, Antennas and Dielectric resonator antenna.
- Data Communication and Networking.

Publications

Journals

- Usha L, Krishnamoorthy K. "Circularly polarized rectangular dielectric resonator antenna with metallic strips load for WLAN application". *Microw Opt Technology Lett.* 2022
- Lakshminarayana Usha, and Kandasamy Krishnamoorthy, "Linearly Polarized and Circularly Polarized Cylindrical Dielectric Resonator Antenna," *Progress In Electromagnetics Research Letters*, Vol. 102, 57-65, 2022
- L Usha, Kandasamy K. "Circularly polarized rectangular dielectric resonator antenna with elliptical aperture feed for 5 GHz ISM band". *Int J RF Microw Comput Aided Eng.* 2021.

Conference Proceedings

- Usha. L., Sheryas. P, Rudrapraksh, H M, Suhas. P. and Sanjay. P, "Complementary Split Square Ring Resonator for Monitoring Surface Crack," *2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)*, Tumakuru, India, 2025, pp. 1-4, doi: 10.1109/ICSSSES64899.2025.11009341.
- Avanthi, B. B. Shiva, A. Sharma, S. M. Arun Kumar, L. Usha, "Bot Control using Hand Tracking Mechanism" *Proceedings of the International Conference on Materials, Energy, Environment & Manufacturing Sciences & Computational Intelligence and Smart Communication (MEEMS-CISC-2024)* *Advances in Engineering Research*, 16 June 2025 DOI 10.2991/978-94-6463-762-5_4
- L. Usha, S. M. Arun Kumar, A. Avanthi, A. Sharma and B. B. Shiva, "Dual-Band High Gain Dielectric Resonator Antenna for Millimeter-Wave Applications," *2024 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)*, Tumakuru, India, 2024.
- S. Y. Sonu, L. Usha and S. Karthik, "Contactless Methods for Monitoring Vital Parameters: Systematic Literature Review," *2024 First International Conference on Software, Systems and Information Technology (SSITCON)*, Tumkur, India, 2024.
- Usha. L, Janhavi, N. Banu, S. Banu and S. B. M, "Millimeter-Wave Dielectric Resonator Antenna for Breast Tumor Detection," *2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES)*, Tumakuru, India, 2023.
- L. Usha and K. Kandasamy, "Frequency and Pattern Reconfigurable Cylindrical Dielectric Resonator Antenna," *2022 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)*, Bangalore, India, 2022.

- Pooja K J, Usha L “Robust Sound Event Recognition using Subband Power Distribution Image Feature “International Journal of Engineering Research &Technology, Vol. 4Issue 05, May-2015
- Kumuda D K, Usha L, Pallapa Venkatraman “An approach for energy based secure routing protocol”, International Journal of Computer & Mathematical Science, ISSN 2347-8527, Volume 4 Issues 12, Dec 2015
- Usha L, Kumuda D K “True Time Based Simulation for ADOV in MANET”, 7th International Conference on recent trends in Information, Telecommunication and Computing, ITC 2016
- Anupa H, Usha L “Recognition of Moving Vehicle Number Plate using MATLAB”, 17th International conference on Instrumentation, Electrical and Electronics Engineering, April 2016
- Jeevan, Usha L “Image based visibility and speed estimation under fog condition”, IFERP International conference on signal Processing, Communication and computational research, May 2016.