

Dr M N SUJATHA

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Education

Sl. No.	Degree	Year	Institute	Specialization
1	Ph.D	2015	Indian Institute of Science, Bangalore	RF and Microwave Engineering
2	M.Tech.	1995	K.R.E.C (present NITK) Surathkal, Mangalore, India.	Industrial Engineering
3	B.E.	1992	Adichunchangiri Institute of Technology, Chikmagaluru.	Electronics and Communication Engineering.

Professional Experience

Sl. No.	Date (from-to)	Designation	Organization
1	2011- till date	Associate Professor	Electronics and Telecommunication Engineering, SIT, Tumkur, 2011
2	March 2007-2011	Assistant Professor	Telecommunication Engineering, SIT, Tumkur,
3	April 2001-March 2007	Lecturer	Telecommunication Engineering, SIT, Tumkur,
4	1992-March 2001	Lecturer	Telecommunication Engineering, Kalpatharu Institute of Technology, Tiptur,

Courses Taught

Undergraduate Courses

- Introduction to Electronics Engineering
- Electromagnetic Field Theory
- Fields waves and transmission lines
- Electronics Circuits
- Transmission line theory and Applications
- Microwave Engineering and Radar
- Antennas and propagation
- Microwave Engineering and antennas
- Wireless communication
- Mathematical foundations for communication systems
- Digital Signal Processing
- Signals and systems
- Basic Electronics
- Digital Electronics

Postgraduate Courses

- RF and Microwave circuit design
- Antenna Theory and Design
- Linear algebra and applications

Research Areas

- Design and analysis of RF/Microwave circuits and devices
- Design and analysis of Artificial materials at RF and Microwaves

Publications

Journals

- Bindhu H R, M N Sujatha “Wideband slot antenna gain enhancement using metasurface reflector” Global Transitions Proceedings-Elsevier, Volume 2, Issue 2, Pp. 344-349, Nov. 2021
- M.N. Sujatha, V. Kadiya, “ A subcell Based Approach for Enhancing the Absorption Bandwidth of Microwave Absorbers using Printed Periodic Metallic Geometries,” Engineering Science and Technology, an International Journal, Volume 22, Issue 1, pp. 385-390, Feb 2019.
- M. N. Sujatha and K. J. Vinoy, “Analysis of absorption characteristics of stacked patch arrays on moderately lossy dielectric layers,” Applied Physics A, Volume 119, Number 3, pp.1143-1148, June 2015, DOI: 10.1007/s00339-015-9082-7.
- M. N. Sujatha and K. J. Vinoy, “A Stacked Ring-Patch Artificial Substrate to Improve the Antenna Performance, ” Progress In Electromagnetics Research, Vol. 15, pp. 75-87, 2010.

Conference Proceedings

- M N Sujatha, Ranjitha S Y “Performance Evaluation of Traction Motor through Load and No-Load Testing for Industrial Applications” Global Conference on Communications and Information Technologies (GCCIT-2024) Bangalore, India. Oct 25-26, 2024
- M N Sujatha, Lekhanashree K S , Sanjana Bangarappa Naik , Gnanavi S , Divya Raj “Design and Analysis of Self Triplexing Antenna using Quarter Mode and Eighth Mode Substrate Integrated Waveguide Cavities” 2024 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES), 21 June 2024
- M N Sujatha, Ranjitha S Y “Design of Wide Bandpass Filter using Planar Metal Strip Grating by analyzing dispersion properties” 2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES), 07-08 July 2023, Tumakuru, India.
- M N Sujatha, N S Harshini, M N Geetha “Two Port Reflectionless Bandpass and Bandstop filter Design using Microstrip T-shaped and Coupled Line Structures for C- Band applications” 2022 International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Shivamogga, India, 14-15 October 2022.
- Bindhu H R and M N Sujatha "Wideband Slot Antenna Gain enhancement using Metasurface Reflector" International Conference on Computing System and its Applications (ICCSA -2021) 16th July 2021

- Bindhu H R and M N Sujatha “Analysis and Design of wideband metasurface reflector for slot antenna gain enhancement” Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2021) held at Velalar College of Engineering & Technology, Erode, Tamil Nadu, and India during 15 - 17, September 2021.
- Arunkumar Patted, M N Sujatha “Analysis and Design of Bandpass Filter and Absorptive Bandstop Filter Using Coupled Transmission Line” Proceedings of the Fourth International Conference on Computing Methodologies and Communication (ICCMC 2020) IEEE Xplore Part Number:CFP20K25-ART; ISBN:978-1-7281-4889-2
- Madhu Mohan P R M N Sujatha “Analysis and Design of Compact Bandpass Filter using SIW and CSRR” International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Published by, www.ijert.org NCESC - 2018 Conference Proceedings
- Madhushree M S, M N Sujatha “RF Pulse Generation using Nonlinear Transmission Lines” IEEE 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), 17-18 May 2019
- Vijeshree Kadiya, M N Sujatha “Parametric Analysis and Design of Dipole Tape Antenna used in Cubesats at UHF Frequency” International Symposium on Antennas and Propagation (APSYM), CUSAT Cochin, India Dec 3 - 5, 2018
- Padmavathi N S and M N Sujatha “Analysis and Design of Reflectionless Filters for C Band Applications” IEEE International Conference on Communication and Signal Processing, April 3-5, 2018, India
- Kavya G and M N Sujatha “Mutual Coupling Reduction using High Impedance Surfaces” . International Conference on Signal, Image Processing Communication and Automation - ICSIPCA- 2017
- Shweta Koulagi and M. N. Sujatha “Analysis and Design of Compact Digital Phase Sifter using Substrate Integrated Waveguide,” IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), May 19-20, 2017, India
- Nataraj A N and M N Sujatha “Design and Analysis of Microstrip Antenna Arrays for S-band applications”. 5th IEEE International Conference on Communication and Signal Processing (ICCSP- Melmaruvathur), April 2016.
- Spoorti and M. N. Sujatha “Analysis and Design of Compact couplers using Artificial transmission line,” 5th IEEE International Conference on Communication and Signal Processing (ICCSP- Melmaruvathur), April 2016.

- Y Shailaja, Sujatha M.N, Shivakumar Swamy D S “Design And Analysis Of Dual-Band Planar Bandpass Filters Using Resonators For Wireless Applications” National Conference On Electronics, Signals, Communication & Optimization, GSSS Institute Of Engineering And Technology For Women On 9th July 2015.
- M. N. Sujatha and K. J. Vinoy, “Bistatic RCS Measurement of Electromagnetic Absorbers using Stacked Ring-Patch Arrays,” APSYM-2014, 17th to 19th Dec 2014, Cochin, India.
- M. N. Sujatha and K. J. Vinoy, “A Thin Radar Absorbing Material using a Stacked Ring-Patch Array” IEEE Applied Electromagnetics Conference - 2013, 18th to 20th Dec 2013, KIIT University, Bhubaneswar, India.
- M. N. Sujatha and K. J. Vinoy, “Compact Polarization Dependent EBG Surface with Fractal Boundary Patches” IEEE Asia-Pacific Conference on Antennas and Propagation, August 2012, Singapore.
- M. N. Sujatha and K. J. Vinoy, “A Stacked Ring-Patch Artificial Substrate for Surface Waves Suppression and in Phase Reflection,” Fifth International conference on industrial and information systems, ICIIS 2010, NITK Surathkal, 29 Jul – 1 Aug 2010.
- M. N. Sujatha and K. J. Vinoy, “Planar Multilayer Artificial Substrate to Improve the Performance of Microstrip Antennas,” International Symposium on Microwaves, ISM Bangalore, 3-6 Dec, 2008.