

RNS Institute of Technology, Channasandra, Bangalore-560098
ECE Dept | RESUME - Faculty

Name	Dr Smitha N		
Date of Birth	15/07/1980		
Address	Contact Address: Professor, Department of ECE, RNSIT, Bangalore-98 E-mail: smithanesara81@gmail.com		
Subject / Discipline/ Major	Electronics and Communication Engineering		
Educational Qualifications	Exam Passed	Institution University	Year
	Degree: BE (Telecommunication)	M S Ramaiah Institute of Technology VTU	2002
	PG: M.Tech (Power Electronics)	University Visvesvaraya College of Engineering BU	2007
	Higher: Ph.D	RNS Institute of Technology VTU Detection and Localization of Subsurface Explosive Objects	2019
Experience	Nature of Experience	No. of Years	
	Teaching	17	
	Industry/Research	-	
	Total No. of years of Experience	17	
Experience Details	Designation	Institution/ Organization	Duration
	Assistant professor	RNS Institute of Technology	Nov 2006 – till date
	Assistant professor	M S Engineering College	June 2002 – Sep 2004
Professional bodies Membership details			
Other Professional Experiences			
Areas of Research Interest & Guidance	Radar Signal Processing		
National/ International Work Shops/ Seminars / Conferences Attended	<ul style="list-style-type: none"> ATAL FDP on “Recent Trends in the world of Photonics” from 26th July to 30th July 2021 (5 Days) at RNSIT, Bengaluru. ATAL FDP on “ Principles of Artificial Intelligence, Machine learning and deep learning ”, 21-25 June, 2021 FDP on “Digital Design Flow using Xilinx and MATLAB tools for Image processing Applications”, BNMIT, 20-24 Jan, 2020 3 days FDP on “<i>Python programming and applications</i>” from 18 – 20, June 2018 at RNSIT, Bengaluru. IEEE sponsored 3-day workshop on “<i>Computer Networks Laboratory using NS3, NCTUNS and C/C++</i>” during January 23-25, 2018 at RNSIT, Bengaluru. FDP on “<i>Special Topics in Optics and Photonics</i>” from 27th to 28th January - 2017 (2 Days) at RNSIT, Bengaluru. 2-day FDP on “Antenna Design & GPR applications Using PAM-CEM”, June 21-22, 2016 2-day FDP on “Antenna Design & Simulation Techniques”, June 16-17, 2015 Hands on Workshop on “Cortex M3 ARM Processor”, April 12-13, 2013 		

**Papers Presented
/Books Published**

- "Kirchhoff and F-K migration to focus Ground Penetrating Radar Images", Springer-International Journal of Geo-Engineering, 7:4, pp 1-12, April 2016
- "Effect of Ground Undulation and Variation in velocity of vehicle on Migration of SFCW GPR data for landmine detection", Exploration Geophysics Journal (CSIRO), Vol. 49, No. 1, pp. 81-88, 2017
- "Decluttering using wavelet based higher order statistics and target detection of GPR images", Sensing and Imaging, Vol. 20:2, pp 1-21
- "Target detection using supervised machine learning algorithms for GPR data", Sensing and Imaging, Vol, 21 (1), pp 1-15, 2020
- "Electromagnetic wave propagation modeling of soil for GPR", International Conference Research in Business management and Information Technology, ICRBIT 2015
- "Clutter Reduction using Background subtraction of Ground penetrating radar for landmine detection", 2015 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (Prime Asia), IEEE Digital library DOI:10.1109/PrimeAsia.2015.7450461
- "Clutter reduction techniques of ground penetrating radar for detecting subsurface explosive objects", 5th IEEE International Conference on Information, Communication & Embedded Systems, ICICES 2016
- "An Efficient Algorithm for Peak Detection on B-Scan data generated using GPR", IEEE International conference on Computer Communication and Informatics, ICCCI 2016
- "Horn antenna for GPR application", INDICON, 2017, IEEE conference
- "Wavelets based clutter reduction of GPR data", CCUBE international conference, 2017
- "Detection of targets using Neural Network Classifier for GPR data", Third International conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Technologies (ICECCOT), pp. 1136-1141, Dec 2018.
- "Through wall imaging system using horn antennas", 2017 4th International Conference on Advanced Computing and Communication Systems (ICACCS), pp 1-6, 2017

**Additional Information
(if any)**