

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

<b>Name</b>	<b>Dr. Usha B S</b>		
<b>Date of Birth</b>	11-03-1976		
<b>Address</b>	<i>Contact Address:</i> Associate Professor, Department of ECE, RNSIT, Bangalore-98 <i>E-mail:</i> bsusha@gmail.com		
<b>Subject / Discipline/ Major</b>	Electronics and Communication Engineering		
<b>Educational Qualifications</b>	<b>Exam Passed</b>	<b>Institution   University</b>	<b>Year</b>
	Degree: BE(Branch)	Electronics and Communication Engineering	1997
	PG: M.Tech(Branch)	Biomedical Instrumentation	2003
	Higher: Ph.D	Medical Image Processing	2017
<b>Experience</b>	<b>Nature of Experience</b>	<b>No. of Years</b>	
	Teaching	21 years 5 months	
	Industry/Research	NIL	
	Total No. of years of Experience	21 years 5 months	
<b>Experience Details</b>	<b>Designation</b>	<b>Institution/ Organization</b>	<b>Duration</b>
	Associate professor	RNSIT	Nov 2020 –till date
	Assistant professor	RNSIT	April 2009-Nov 2020
<b>Professional bodies Membership details</b>			
<b>Other Professional Experiences</b>			
<b>Areas of Research Interest &amp; Guidance</b>	<ul style="list-style-type: none"> <li>• Medical Image Processing, Embedded systems</li> </ul>		
<b>National/ International Work Shops/ Seminars / Conferences Attended</b>	<ul style="list-style-type: none"> <li>• ATAL FDP on “Recent Trends in the world of Photonics” from 26<sup>th</sup> July to 30<sup>th</sup> July 2021(5 Days) at RNSIT, Bengaluru.</li> <li>• Machine Learning A-Z™: Hands-On Python &amp; R In Data Science, Udemy</li> <li>• SOC Verification using SystemVerilog –Udemy</li> <li>• Remote Sensing and Digital Image Processing of Satellite Data – NPTEL</li> <li>• Introduction to R Software – NPTEL</li> <li>• Digital Image Processing - NPTEL</li> <li>• Microprocessors and Microcontrollers – NPTEL</li> </ul>		
<b>Papers Presented /Books Published</b>	<ul style="list-style-type: none"> <li>• Papsmeat image based detection of cervical cancer, International Journal of Computer Applications 45 (20), 35-40</li> <li>• A novel approach for speckle reduction and enhancement of ultrasound images, Int. J. Comput. Appl 45 (20), 14-20</li> <li>• Modelling of edge detection and segmentation algorithm for pest control in plants, International Conference in Emerging Trends in Engineering, 293-295</li> <li>• Measurement of ovarian size and shape parameters, 2013 Annual IEEE India Conference (INDICON), 1-6</li> <li>• Medical image transcoder for telemedicine based on wireless communication devices, 2011 3rd International Conference on Electronics Computer Technology 1, 389-393</li> <li>• Size and Shape-Based Ovarian Abnormality Detection of Ultrasound Images, Emerging Research in Electronics, Computer Science and Technology, 295-309</li> </ul>		

**Additional Information**  
(if any)

- Ultrasound Ovary Image Classification Using  $K\sigma$ -Classifier, 5th International Conference on Biomedical Engineering in Vietnam, 198-202
- IoT Enabled Industrial Gearbox, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, NCRACES - 2019 Conference Proceedings
- Abnormality Detection in Ovarian Ultrasound Images using Active Contours, Vol. 1 No. 4 (2014): Journal of Biomedical Engineering and Medical Imaging