


**INDIVIDUAL FACULTY PROFILE- TEMPLATE TO BE UPLOADED IN COLLEGE WEBSITE**

	<p><b>Name in Caps</b> SOWMYA SUNKARA  <b>Designation</b> Asst. Professor  <b>Qualification</b> M.Tech  <b>Email-id: (official)</b> sowmi.ece@bmsce.ac.in  <b>Experience:</b>  <b>Teaching experience:</b> 15 yrs.  <b>Date of Joining this Institution (BMSCE):</b> 4-10-2005</p> <p><b><u>Research Interests:</u></b></p> <p><b>Automotive Electronics , Embedded Systems and ASIC Design.</b></p>
<p><b>About Your self</b></p>	<p><b>Highly Committed towards the academic growth of students and the Institution. Dedicated to serve the student community through delivering knowledge and motivating the students to develop passion towards the subject taught. Make a sincere effort to create a classroom atmosphere that is stimulating, encouraging, safe, positive, and productive learning environment. Studied Electronics and communication Engineering in SJCIT, VTU University. Graduated with FCD in 2003. Joined BMSCE, ECE Department as faculty in 2005 and did M.Tech (2007-2009) in BMSCE. Presented Papers in National conferences. Have guided many under graduate and master level projects that lead to technical publications on Electronics and VLSI Engineering. Have good number of research publications.</b></p>
	<p><b><u>Education:</u></b>  <b>Doctoral Research:</b>  <b>Masters: M.Tech (Electronics)</b>  <b>Bachelors: B.E (E &amp; C)</b></p>
	<p><b>Personal web site/page if any then mention the Webpage link</b></p>
	<p><b>Selected Publications</b></p> <p><b><u>Conferences:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Sowmya Sunkara</b> ‘Web enabled control panel for electrical machines using embedded web server on Vx-works platform’, National conference on “wireless control and communication technology”NCWCT-2011.</li> <li>• <b>Sowmya Sunkara</b> “Adaptive beam forming using LMS algorithm in wireless Communications”, National conference on Antennas and its Applications (NConANT)-2012.</li> <li>• <b>Sowmya Sunkara, Rakshith R</b> “Intelligent Battery charger – analyzer for Critical applications”, International Conference On Electronics and Communication Engineering(ICECE)-2012.</li> <li>• <b>Sowmya Sunkara, Raghunath;</b> "ASIC Implementation of 128-Bit Key RC5 Cipher"; International Conference on Information and</li> </ul>

Communication Engineering (ICICE)-June.2013; Bangalore.

- **Sowmya Sunkara**, Somashekar; “Implementation of Binary – Tree-Based High speed packet classification system on FPGA” National Conference on Electrical and Electronics Engineering (NCEEE-2014).June-2014, HKBK, Bangalore.
- **Sowmya Sunkara**, Puspa k “Process Variability Analysis of 14nm SOI FinFETs with High K Dielectrics “3<sup>rd</sup> Conference Solid State Circuits-2015 to be held at SAINTGITS College of Engineering, Kottayam, Kerala.

#### **Journals:**

- **Sowmya Sunkara**, Chatri Nayak; “Design and Implementation of an On-chip Multistage Network Topology for system On-chip” , International Journal of Advanced Research in Computer Engineering and Technology, Volume 3, Issue..5, May-2014, ISSN 2278-1323.
- **Sowmya Sunkara**, Puspa k, “Performance Analysis OF 14nm SOI Finfet With Zro2 Dielectric; A Comparative Study” International Journal of Engineering Research and General Science, Volume 3, Issue.2, 2015.
- **Sowmya Sunkara**, Puspa k “Process Variability Analysis of 14nm SOI FinFETs with High K Dielectrics , Paper ID: NEWS-51, International Journal of Electrical Electronics & Computer Science Engineering (IJEECSE),2016.
- **Sowmya Sunkara**, Asmath.A “Hands Free Agriculture Monitoring Using IOT” International Journal Of Advanced Research in Engineering & Management.(IJAREM) ISSN: 2456-2033 || PP. 15-21 | Vol. 03 | Issue 08 | 2017.
- **Sowmya Sunkara**, Vikas J “AN EFFICIENT VLSI DESIGN OF AES CRYPTOGRAPHY BASED ON DNA TRNG DESIGN” International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 p-ISSN: 2395-0072 Volume: 04 Issue: 08 | Aug -2017.
- **Sowmya Sunkara**, Divya Shree L, “Web Server Based Air Pollution Monitoring” International Journal of Advanced Research in Engineering & Management Vol. 03, Issue 09, September 2017.
- **Sowmya Sunkara**, PRADEEP M KUMBAR “Android Based Battery Monitoring System for Lithium Ion Batteries Used in Electric Vehicles”in IJAREEIE, Volume 7, Issue 5, May 2018.

	<ul style="list-style-type: none"> <li>• <b>Sowmya Sunkara, Shrisha R,</b>” FPGA Based Ultrasonic Thickness Measuring Device” International Conference on Advances in Computing, Communications and Informatics (ICACCI) , 2018</li> </ul>
	<p><b>Courses Handled/List</b></p> <ul style="list-style-type: none"> <li>• <b>Automotive Electronics (UG and PG)</b></li> <li>• <b>ASIC Design (UG and PG)</b></li> <li>• <b>Antenna and Wave propagation</b></li> <li>• <b>Entrepreneurship Development and Management</b></li> <li>• <b>Elements of Electronics Engineering.</b></li> </ul>
	<p><b>Additional Responsibilities</b></p> <p><b>DAC Member, Time Table officer , First year coordinator, Valuation unit Co-ordination , Project Co-ordination , Graduation day co-ordination , First Year Inauguration Co-Ordination, Co-Convener for NEWS-2012 National Conference, ICNEWS Organizing Committee member, Contribution to NBA criteria 3 and NBA criteria 8 Documentation , Proctoring, Stock verification, Phase shift coordinator, Syllabus framing (UG, PG), Lab Setup for Co-lab(Electronics), Organizing workshops , Internships and conferences.</b></p>