

PERSONAL DETAILS			
Name	Balaji B S		
Department	Electronics & Communication Engg.		
Designation	Assistant Professor		
Qualification	M.Tech		
Teaching Experience	10 Years DOJ:18/07/2011		
Email	balajibs@bgsit.ac.in		
Vidwan-ID	119719	Scopus ID	
Orcid ID	0000-0002-6146-3653	Google Scholar ID	7EGtUfUAAAAJ
Type of Association	Regular		
Core Discipline	Electronics & Communication Engineering		
Specialization	VLSI Design and Embedded System		
Areas of Interest	<ul style="list-style-type: none"> ● VLSI Design ● Embedded System Design 		
MEMBERSHIP OF PROFESSIONAL BODIES			
Professional Society	From Year	Membership Number/ Nature	
IEEE	March 2020	96775015/1 year	
ISCA	January 2020	L-38410/ LIFETIME	
IEI	February 2016	AM163944-5/LIFETIME	

ISTE	2020	LM 131725 / LIFETIME
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PUBLICATIONS

INTERNATIONAL JOURNALS:11

1. "Reconfiguring CMOS Driver and Receiver Pair as Pseudo NMOS for Low-swing Signaling on-chip interconnects", Journal of VLSI Design Tools and Technology, Vol. 3, Issue 1, 12th April, 2013
2. "VLSI Design and Implementation of Binary Number Multiplier based on UrdhvaTiryagbhyam Sutra with reduced Delay and Area" pp.269-278, IJERT, ISSN: 0974-3154, Volume 6, Number 2, 2013.
3. "Design and Synthesis of Reversible fault tolerant carry skip adder/subtractor", IJESE, ISSN: 2319-6378, Vol. 1, Issue 8, June 2013.
4. "Assertion based verification on I2C Master Bus Controller with RTC" IJST journal, Vol 2, Issue 5, ISSN- 2321- 919X, page no. 282 -286, May 2014.
5. "Scalable pipeline for CLAA and CSLA Using Booth encoded Wallace Tree Multiplier" IJSET journal, Vol 2, Issue 5, May 2015, ISSN 2348 – 7968, page no. 120-123.

6. "An Asynchronous High performance FPGA based on LEDR/ Four phase dual rail hybrid structure" IJSET journal, Vol 2, Issue 6, May 2015, ISSN 2348 – 7968. 7. "Smart Phone operated Multipurpose Agricultural Robot", IJERT, Vol. 7, Issue 5, May 2018, ISSN-2278-0181.

8. "Smart Bicycle based on IoT using Raspberry Pi" JETIR May 2019, Volume 6, Issue 5, ISSN-2349-5162.

9. "RFID Based Anti-theft Protection of Vehicles using GSM and GPS" JETIR May 2019, Volume 6, Issue 5, ISSN-2349-5162.

10. "Smart Bicycle based on IoT using Raspberry Pi", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value:45.98; SJ Impact Factor: 7.177, Volume 7, Issue V, May 2019.

11. "Design of Modular Self Reconfigurable Robots", IJAERD, Vol. 5, Issue 05, May 2018, e-ISSN : 2348-4470, p-ISSN : 2348-6406.

12. "Infant care assistant using Machine learning and IoT ", IJARCCCE, Vol. 10, Issue 07, July 2021, DOI – 10.17148/IJARCCCE.2021.10711

NATIONAL CONFERENCES:5

1. “FELICS Algorithm based image compression” National Conference on Advanced Research in Electronics and Communication Engineering, (NCAREC) 22nd and 23rd April 2014, RLJIT Doddaballapur.
2. “Reducing Power Consumption of IC using LPBA – an alternative approach” presented at 2nd National level Student Paper Presentation at SJBIT, Bangalore on 14th October 2011.
3. “Assertion based verification on I2C Master Bus Controller with RTC” National conference on VLSI Processing, Communication and Soft computing 2014 (NCVCS - 14), SKIT, Bangalore.
4. “Dynamic Scaling Of Pipeline Depth For Analysis Of Power And Performance Using Floating Point FMA” 2nd National Conference on Emerging Trends in Electronics and Communication (NCETEC – 15), BGSIT.
5. “Wireless Paging using Zigbee in Wireless Personal Area Network” 4th National Conference on Emerging Trends in Electronics and Communication (NCETEC – 17) 18th May 2017, (IJEBMS), BGSIT.

WORKSHOPS/SEMINARS/FDPs/ PARTICIPATED:13

1. 12 days FDP on “ Entrepreneurship and Innovation” Sponsored by Dept. of Science and Technology, New Delhi, Dayananda Sagar Academy of Technology and Management, Bangalore, 22-02-2021 to 06-03-2021.
2. 5 Days FDP on “A Pedagogy for Effective use of 5G Communication Network for Cloud Applications.” from 2021-7-13 to 2021-7-17 at J N N college of Engineering, Shimoga.
3. One day FDP on “Management of intellectual property for IPRC”, by ACU Intellectual Property Rights Cell (ACUIPRC) and KSCST in association with CIPAM Govt. of India on 21 June 2019.
4. Five-day FDP on “Machine Learning crash course (MLCC)” organized by Dept. of CSE and ISE, BGSIT, ACU and Google from 15th December to 19th December 2018.
5. 5 – Days FDP on “Effective teaching techniques on Digital Signal Processing” on 26th August – 30th August 2019 at VTU PG Centre, Muddenahalli.

6. Four-day FDP on “Emerging Innovative approaches in VLSI, Communication & Network systems”, organized by Dept. of Electronics and Communication Engineering BGSIT, in association with KSCST, Govt. of Karnataka, from 10 th April 2018 to 13 th April 2018.
7. Six-Day Faculty Development Program on “Embedded Controller Programming with ARM CORTEX-M3”, organized by Dept. of ECE, BGSIT, B G Nagar from 29 January to 3 February 2018.
8. 5 – Days Entrepreneurship Development Programme on 27th January – 31st January 2015 at BNMIT, Bangalore.
9. One Day FDP on “Research Methodology and Latex” from 17th February 2014, organised by Dept. ECE, Vivekananda Institute of Technology, Bangalore.
10. Two day Training program on “Analog and Digital Design using Cadence Tool”, organized by the Department of ECE, Acharya Institute of Technology, Bengaluru, on July 24th to 25th, 2013.
11. Three day Boot Camp on “DFT for Integrated Circuits” organized by the IEEE Bengaluru Section and hosted by IEEE Student branch, VTU Extension Center, UTL Technologies Ltd, Bengaluru, on June 20th to 22nd, 2013.
12. 5 Day FDP on “Advances in Communication and network systems” from 12th March to 16th March 2012, organised by Dept. ECE, BGSIT, B G Nagar, Mandya.
13. 2 days Faculty Development Programme on “Nanoelectronics Circuits and Devices” at Saphthagiri College of Engineering, Bangalore on 10th and 11th December 2012.
14. A workshop on “ARM powered with Perfect RTOS” at Dr. Ambedkar Institute of Technology, Bangalore on 18th November 2011 organised by Innovate Software Solutions Private Limited, Bangalore.
15. A workshop on “CMOS RF Design” held at REVA ITM, Bangalore on 5 and 6 August 2010.

ONLINE COURSES

Course Title	Course Organization	Year
Embedded System Design with ARM	NPTEL	2018-19
Microelectronics: Devices to Circuits	NPTEL	2019-20

NBA Accreditation and Teaching - Learning in Engineering	NPTEL	2019-20
ASIC Synthesis and Static Timing Analysis (STA)	Excel VLSI Technologies	2019-20
ASIC Physical Design and Verification	Excel VLSI Technologies	2019-20

AWARDS, COMMENDATIONS RECEIVED

Nature	Year	Awarding Organization
Best Project	2020-21	GSSIETW, Mysuru
Academic Excellence	2018-19	BGSIT, B G Nagara
Student Project of the Year	2017-18	IEAE Student Project Programme – 2018 (SPP)

GRANTS RECEIVED FOR MAJOR AND MINOR PROJECTS

Title of the project	Sanctioned Year	Agency	Amount
Smart Bi-cylce based on IoT using Raspberry Pi	2018-19	Karnataka State Council for Science and Technology (KSCST)	6000/-