




JSS Mahavidyapeetha
JSS Academy of Technical Education, Bengaluru
Department of Electronics & Communication Engineering



FACULTY PROFILE

1. Personal Details

NAME	Dr. Veeramma Yatnalli	
DEPARTMENT	Electronics and Communication Engineering	
DESIGNATION	Associate Professor	
PHONE	9916928507	
EMAIL ID	veerammayatnalli@jssateb.ac.in	
TEACHING EXPERIENCE	24	
INDUSTRY EXPERIENCE	Nil	
RESEARCH EXPERIENCE	10	

2. Qualification

COURSES	SPECIALIZATION	INSTITUTION	UNIVERSITY
Ph D	Wireless Communication, and image Processing	Dayananda Sagar college of engineering, Bengaluru	VTU, Belagavi
ATS or any other certification	M.E in Digital Electronics	BVB College of Engineering and Technology, Hubli	Karnatak University, Dharwad
BE / Diploma / ITI	B. E in ECE	SLN College of Engineering, Raichur	Gulbarga University, Gulbarga
PUC	PCMB	LVD College, Raichur	Pre University Board
SSLC	SSLC	Tagore Memorial Girl's High School, Raichur	

3. Membership of Professional Bodies:

1. **Life Membership in Indian Society for Technical Education (MISTE), Life Member, L M 49032 2006**

4. Awards

Award Title	Date of receiving the award	Award issuing authority/ Body / Organization
NIL		

5. Publications (Journals Conferences)

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	WOS / Scopus	Impact Factor	Publisher	Link
1.	Comparative efficiency analysis of RF power amplifiers with fixed bias and envelope tracking bias	Ambily Babu, BG Shivaleelavathi, Veeramma Yatnalli	Indonesian Journal of Electrical Engineering and Computer Science (IJECS) p-ISSN: 2502-4752, e-ISSN: 2502-4760,2023	Scopus	0.23	<u>Institute of Advanced Engineering and Science (IAES)</u>	http://doi.org/10.11591/ijeecs.v36.i2.pp808-816
2.	Performance Analysis of Graph theory-based Contrast Limited Adaptive Histogram Equalization for Image Enhancement	Manjunath A. Neelappa, Prakash, Veeramma Yatnalli, Saroja S. Bhusare	Print ISSN: 1109-2777, E-ISSN: 2224-2678 Volume 22, 2023	Scopus	0.2	World Scientific and Engineering Academy and Society	DOI: 10.37394/23202.2023.2.23
3.	Design and Development of Solar Powered Automatic Irrigation System for Modernization of Agriculture	Veeramma Yatnalli, Saroja S. Bhusare, B.G. Shivaleelavathi, C. Sheetal, B. Reshma, M. Swetha, H. N. Yashaswini	Journal of Agricultural Science 2023. 45(1): 173-187	Scopus and Web of Science	0.26	Agrivita	http://doi.org/10.17503/agrivita.v45i1.3753
4.	Design and Performance Analysis of the Dynamic Reduction of Intrinsic Interference Suppression and BER using QAM-based FBMC for MU-MIMO Communications	Veeramma Yatnalli, Saroja S Bhusare	International Journal on Recent and Innovation Trends in Computing and Communication	Scopus	0.17	Auricle Global Society of Education and Research	https://doi.org/10.17762/ijritc.v11i8s.7240
5.	Improving graphics processing unit performance based on neural network direct memory access controller	Veeramma Yatnalli, Saroja S Bhusare	Indonesian Journal of Electrical Engineering and Computer Science (IJECS)	Scopus	0.247	<u>Institute of Advanced Engineering and Science (IAES)</u>	http://doi.org/10.11591/ijeecs.v32.i3.pp1476-1484

6.	Efficiency Analysis and Design Considerations of a Hysteretic Current Controlled Parallel Hybrid Envelope Tracking Power Supply	Ambily Babu, BG Shivaleelavathi, Veeramma Yatnalli	Engineering, Technology & Applied Science Research (ETASR)	Scopus and Web of Science	0.3	Pylon	https://doi.org/10.48084/etasr.5414
7.	A Comprehensive Review on Supply Modulators and Control Strategies for Envelope Tracking RF Power Amplifiers in Mobile Communication	Ambily Babu, BG Shivaleelavathi, Veeramma Yatnalli	<u>IETE Journal of Research</u>	Scopus and web of Science	0.5	IETE	https://doi.org/10.1080/03772063.2021.1987998
8.	Wheelchair Control Using Brain Computer Interface	Veeramma Yatnalli , B G Shivaleelavathi, Saroja S Bhusare, Aditi Prakash, Nithyashree D	<u>International Journal of Future Generation Communication and Networking</u> Vol. 14 No. 1 (2021) ISSN: 2233-7857 (Online)	WoS	0.15	SERSC Science & Engineering Research Support soCiety	https://sersc.org/journals/index.php/IJFGCN/article/view/35555
9.	Review on Multi Level Inverter Topologies and Control Strategies for Solar Power Conversion	B. G. Shivaleelavathi, Chinmayi, Veeramma Yatnalli	08, 02, 2020, 295~315	WoS	COSMO S: 4.24	Politeknik Elektronika Negeri Surabaya, Indonesia	https://emitter.pens.ac.id/index.php/emitter/article/view/500
10.	Enhanced Power Added Efficiency for RF Power Amplifiers in Mobile Communication	Ambily Babu, B.G Shivaleelavathi, Veeramma Yatnalli	<u>International Journal of Grid and Distributed Computing</u> Published 2020-12-01 Issue Vol. 13 No. 2 (2020)	WoS	0.15	SERSC Science & Engineering Research Support soCiety	http://sersc.org/journals/index.php/IJGDC/article/view/34571

11.	Simulation of Seven and Nine Level CHBMLI with Elliptical Phase Disposition PWM Technique	<u>Chinmayi</u> , <u>B. G. Shivalaelavathi</u> , <u>Veeramma Yatnalli</u>	<u>Vol.8 No.3, March 2020</u> Doi: 10.4236/jpee.2020.83004		1.13	Journal of Power and Energy Engineering SCIRP	https://www.scirp.org/journal/paperabs.aspx?paperid=99274
12.	Review Of Inpainting Algorithms For Wireless Communication Application	Dr. Veeramma Yatnalli, Dr. B. G. Shivalaelavathi, Dr. Sudha K. L	10, 03, 2020, 5790-5795	WoS	0.6	D. G. Pyrarinos Greece	https://www.etasr.com/index.php/ETASR/article/view/3547
13.	Veeramma Yatnalli Asha P Meghana S Harshitha R Gowda B Bhavana	Implementation of Golay Code in VLSI	Perspectives in Communication, Embedded-Systems and Signal-Processing (PiCES) 2566-932x <i>pices</i> , vol. 4, no. 7, pp. 165-169, Nov. 2020.	--	--	World Serve Online-Germany	Implementation of Golay Code in VLSI Perspectives in Communication, Embedded-systems and Signal-processing - PiCES (pices-journal.com)
14. 15.	Dr.B. G. Shivalaelavathi, Veeramma Yatnalli, Chinmayi	Design and Development of an Intelligent System for Pothole and Hump Identification on Roads	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, September 2019	Scopus	0.11	Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP) Bhopal (M.P.), India	International Journal of Recent Technology and Engineering (IJRTE)
16.	Joint source-channel coding by Inpainting and RS Code	Dr. Veeramma Yatnalli, Dr. Sudha K. L	Journal of Advanced Research in Dynamical and Control Systems Vol. No.10 Issue No.13 pp: 1663-1678 Year:2018	Scopus	0.11	Institute of Advanced Scientific Research, USA	https://www.jarcds.org/backissues/abstract.php?archiveid=6429

17.	1.Veeramma Yatnalli 2.Dr. K L Sudha	Image Transmission over Multipath Fading Channel and Image Denoising using Directional Weighted Median Filter	International Journal of Computer Applications Vol. No.109 Issue No.10 pp:18-23 Year:2015		0.7		IJCA - Image Transmission over Multipath Fading Channel and Image Denoising using Directional Weighted Median Filter (ijcaonline.org)
18.	1.Veeramma Yatnalli 2.Dr. K L Sudha	Image Compression Based on Spatial Redundancy Removal and Reconstruction using Image Inpainting	Int. J. of Recent Trends in Engineering & Technology ACEEE, USA (a division of IDES) Vol. No.11 Issue No. pp:623-632 Year:2014	--	--		
19.	Veeramma Yatnalli Veeresh Gavai	Design of Pulsed Latch Shift Register	International Research Journal of Engineering and Technology (IRJET) Vol. No.04 Issue No.06 pp:1199-1202 Year:2017	-- Fast Track Publications , India			https://www.irjet.net/archives/V4/i6/IRJET-V4I6688.pdf
20.	Veeramma Yatnalli PRIYANKA PAWAR	High Speed And Low Power CMOS Technology based Ram-Cam Memory Design	International Research Journal of Engineering and Technology (IRJET) Vol. No.05 Issue No.03 pp:623-632 Year:2016	Fast Track Publications , India			https://www.irjet.net/archives/V3/i5/IRJET-V3I5243.pdf

a. Publications (Conferences)

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference/Publisher	Venue	WoS/Scopus
1.	Delay Minimization Technique to improve the efficiency of Parameter Optimized Hysteretic Current Controlled Parallel Hybrid ETPA in	Ambily Babu, BG Shivaleelavathi, Veeramma Yatnalli	2024 IEEE International Conference on Contemporary Computing and Communications (InC4),	Bangalore, India, 2024, pp. 1-7	Scopus

	Mobile Communication				
2.	Yatnalli, V., Bhusare, S. S., Shivalaelavathi, B. G., Rajeswari, D. S., HithaShree, J., Simha, A. L., & Subhani, M. N.	Development of Personalized Health Detection Device for Covid-19. In <i>2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things</i>	(2024, January). (<i>IDCIoT</i>) (pp. 525-532). IEEE	NMIT, Bengaluru	Scopus
3.	Yatnalli, V., Bhusare, S. S., Kavitha, M., Naik, A., Ashwini, T., & Chandana, D.. In 2022 Fourth.	Restoration of Images Corrupted by Multipath Fading Channel with Weighted Encoding	International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT) (pp. 1-7). IEEE	Mandya, PESC(2022, December).	Scopus
4.	Bhusare, S.S., Yatnalli, V., Patil, S.G., Kumar, S., Havinal, N.R., Subhash, C.S.. In: Sharma, H., Saha, A.K., Prasad, M. ICIVC 2022.	Machine Learning and Digital Image Processing in Lung Cancer Detection	Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2022).	NIT Agartala	Scopus
5.	Saroja S Bhusare, Veeramma Yatnalli, Shreyas E , Shreeram Aithal , Gayana A Jain, Sreekaar O	Optimized Reversible Arithmetic and Logic Unit	International Conference on Communication and Intelligent Systems (ICCIS 2022),	NIT, Delhi	Scopus
6.	Rajeswari, D. S., Simha, A. L., Subhani, M. N., Shivalaelavathi, B. G., & Yatnalli, V.). A review on remote health monitoring sensors and their filtering techniques.	(2021)Global Transitions Proceedings, 2(2), 392-401.	GSSSIT, Mysuru	Scopus
7.	1.Veeramma Yatnalli 2.Dr. K L Sudha	Effect of Image Transmission Over Multipath Fading Channel and Reconstruction Using Inpainting	Emerging Research in Computing, Information, communication and Applications", ERCICA		Scopus
8.	Dr. K L Sudha	Patch Based Image Completion for Compression Application DOI: 10.1109/ICSIP.2014.20	Signal and Image Processing (ICSIP), 2014 Fifth International Conference		Scopus
9.	Dr. K L Sudha	Reduced Bit Rate Using Image Inpainting DOI 10.1007/978-81-322-1157-0	Emerging Research in Electronics, Computer Science and Technology		Scopus

10	Dr. K L Sudha	Image compression with inpainting DOI: 10.1109/ISSPIT.2012.6621279	Signal Processing and Information Technology (ISSPIT), 2012 IEEE International Symposium		Scopus
11	B. G. Shivalaelavathi, Veeramma Yatnalli, Saroja S Bhusare, Madhan Kumar K, Amith T	Smart Health Care and Tracking System Based on Internet of Things. G	National Conference on "Bioengineering -2020"		Scopus
12	Veeramma Yatnalli, B. G. Shivalaelavathi, Saroja S Bhusare	Wheelchair Control Using Brain Computer Interface	National Conference on "Bioengineering -2020"		Scopus

6. Grants/Funding Received

Grant Amount	Project Name	Date of receiving the Grant	Grant issuing authority/ Body / Organization
200000	FDP on Research Applications in Artificial Intelligence and Machine Learning	2023	VGST, Govt. of Karnataka
100000	National Conference on Applied Computational Intelligence	2023	INSA, New Delhi
100000	FDP on HPC and AI and ML	2022	NIT Warangal

6.Others :Workshops / Conference (Orgained/Attended)

6.a. Workshops / Conference organized

Sl. No.	Name of the workshop / Conference	Organised by	Date	Role
1.	FDP on MATLAB and Simulink	Dept.of ECE, JSSATEB	29-11-2023 & 30-11-2023	Coordinator
2.	JSSATEB - NATIONAL SYMPOSIUM – 2018 Internet of Things -Trends & Opportunities	JSSATE, Bengaluru	4th & 5th JULY-2018 JSSATE- Bengaluru	Department Coordinator
3.	VGST Sponsored Faculty Development Program On "Internet of Things"	JSSATE, Bengaluru	18 – 23, June 2018 JSSATE- Bengaluru	Department Coordinators
4.	Faculty development programme on Embedded Controller Lab using ARM Cortex M3	JSSATE, Bengaluru	4th, 5th & 6th JANUARY, 2018 JSSATE- Bengaluru	Program Coordinator
5.	FDP on 5G-Mobile Communication and Edge Computing	JSSATE, Bengaluru	28th July 2017 JSSATE- Bengaluru	Organizer

6.	International conference on Signal, Image Processing, Communication & Automation (ICSIPCA-17)	JSSATE, Bengaluru	6th & 7th July 2017 JSSATE-Bengaluru	Co-coordinator & Track In charge
7.	Workshop on GNU Radio and Software Defined Radio	JSSATE, Bengaluru	27th June to 1st July 2016 JSSATE-Bengaluru	Organizing committee member
8.	Workshop on Signal, Image Processing and Software Defined Radio using Lab View	JSSATE, Bengaluru	22-24, June-2015 JSSATE-Bengaluru	Organizing committee member
9.	NATIONAL CONFERENCE ON VLSI, SIGNAL AND IMAGE PROCESSING (NCVSIP-14)	JSSATE, Bengaluru	22 – 23 AUGUST, 2014 JSSATE-Bengaluru	Organizing committee member
10.	Fundamentals of Linux and Data Analytics	Vodafone India Foundation and Connecting Dream Foundation, Bangalore	10 th August, 2020 to 18 th August, 2020	Coordinator
11.	AI based Chatbot creation and hosting, NLP with python, Python code contest	Vodafone India Foundation and Connecting Dream Foundation, Bangalore	18 th September to 1 st October 2020(total 11 Hours)	Coordinator
12.	Fundamentals of Linux and Data Analytics	Vodafone India Foundation and Connecting Dream Foundation, Bangalore	August 19, 2020 to August 27, 2020	Coordinator
13.	Image Recognition with TensorFlow	Vodafone India Foundation and Connecting Dream Foundation, Bangalore	31 st October 2020(2pm to 5pm)	Coordinator

6.b. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	DSP Architecture and Tools	R V College of Engineering Dept of Electronics and Communication Engg. RVCE, Bangalore	from 13th to 15th Sept-2000
2	Train the trainer on Digital signal processor DSP563XX family	BMSCE Dept of Electronics and Communication Engg. BMSCE Bangalore	From 18th to 22nd October2000
3	Digital Signal Processing and Applications	UVCE Bangalore university, UVCE, Dept of Electronics and Communication Engg. Bangalore	From 29th July to 14th August 2002
4	Advanced electronic Laboratories(VHDL,DSP and Microcontrollers)	RNSIT Dept of Electronics and Communication Engg. Bangalore	14th to 19th February 2005
5	MATLAB, SIMULINK and DSP Processor	Dr. AIT , Dept of Electronics and Communication Engg.Bangalore	From 6th to 8th march 2006

6	A short term course on System C and Applications on VLSI Design	JSSATE, Dept of Electronics and Communication Engg. Bangalore	Dept of Electronics and Communication Engg. JSSATE, Bangalore 6th to 8th April 2005
7	Automatic Speech processing and Understanding	IISc, Bangalore	Dept of Electrical Communication Engg, IISc, Bangalore 4th to 7th January 2006
8	National conference on VLSI, Signal and Image processing,	JSSATE, Dept of Electronics and Communication Engg. Bangalore	Dept of Electronics and Communication Engg. JSSATE, Bangalore 22nd to 23rd August 2011
9	National conference on Antennas and its applications	VTU, Belgaum	VTU, Regional center, Bangalore 24th to 25th February, 2012
10	FPGA Based Embedded System Design	JSSATE, DEXEL EmDAC	Dept of Electronics and Communication Engg. JSSATE, Bangalore On 3rd January, 2012
11	Signal , Image processing and SDR using Lab View	JSSATE, bangalore TECHLABS	Dept of Electronics and Communication Engg. JSSATE, Bangalore 22nd to 24th June, 2015
12	Capacity Building for Women Managers in Higher Education" - SAM Workshop	SJCE, Mysuru	4th to 8th June-2019
13	Engineering Statistics and Linear Algebra.	GAT, Bangaluru	2 nd – 26 th , January 2020
14	Wireless Communication Technologies for IoT	E&ICT Academy IIT Guwahati	27 July to 07 August, 2020
15	Recent Advances in Artificial Intelligence	Computer Science and Engineering Department, National Institute of Technology, Uttarakhand and SLIET Longowal	27th-31st July 2020 sponsored by TEQIP-III
16	Applied Data science	BMSCE, Bangalore	6th -17th July-2020

6.e. Any other information you will like to share about your professional experience --