

Name of the Faculty & Photo			
Designation	Assit.Professor		
Qualification	Ph.D.		
Specilization	(Electronics)		
Total Experience	Teaching (Years)	Industry (Years)	Research (Years)
	10.6		
Research Areas	VLSI/ VHDL,WSN,		
Contact Details & mail ID	phrangaree247@gmail.com Mob.No.:9665610280		
Subjects Taught	S&S,DSP,DIP	ADSP,VSP,VT	
Projects guided	UG	PG	Ph.D.
	20	21	Nil
Publications	Journals	Conferences	
	24	09	

Publications List:

Sl. No.	Title with page nos.	Journal	ISSN / ISBN No.
1	An Implementation of On-Chip Hardware Controller for Fault Detection and Tolerance in FPGA	International Journal Of Advanced Engineering Sciences And Technologies	Vol No. 5, Issue No. 2, 163 – 165
2	Design and Implementation of CRC Code Generator based on Parallel Execution Method for High Speed Wireless LAN Vol. 1, Issue 3, pp.704-709	International Journal of Engineering Research and Applications (IJERA)	ISSN: 2248-9622
3	Design of Conveyor Monitoring Controller with Wireless System	UACEE International	Vol:1 Issue:1 ISSN 2278 - 215X

		Journal of Advances in Electronics Engineering	
4	A Biometric ECG Identification using LNF in Wireless Body Area Sensor Network	International Journal of Recent Technology and Engineering (IJRTE)	ISSN: 2277-3878, Volume-1, Issue-2, June 2012
5	Study On Various Methods To Maximize The Lifetime Of Wireless Sensor Networks	IJREAS	Volume 2, Issue 2 (February 2012) ISSN: 2249-3905`
6	Implementation of Lifetime Maximization Strategies for Wireless Sensor	International Journal of Electronics Communication and Computer Engineering	Volume 3, Issue 4, ISSN (Online) 2249 – 071X, ISSN (Print): 2278 – 4209
7	Performance Analysis of Partially Static Wireless Sensor Network using Virtual Cluster Head	Inventi Rapid: Wireless Communications & Network	Vol. 2013, Issue 2 [ISSN 2229-7766]
8	An FPGA Implementation of an Adaptive Algorithm for Data Reduction in Wireless Sensor Network	International Journal of Advanced Research in Computer Science	Volume 4, No. 2, Jan-Feb 2013 ISSN No. 0976-5697
9	Analysis of Supporting Cluster Head Routing Protocol in Dynamic Wireless Sensor Network Progress” Page(s) 020-026	In Science and Engineering Research Journal PISER 17, Vol.03, Issue: 01/06 January-February; Bimonthly International Journal	ISSN 2347-6680 (E)
10	Review on Design and Performance Analysis of Low Power Transceiver Circuit in Wireless Sensor Network” PP 01-05	IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-	ISSN: 2278-2834,p-ISSN: 2278-8735.Volume 11, Issue 1, Ver. I (Jan. - Feb .2016),
11	Performance Analysis of Efficient Topology Control Scheme for Wireless Sensor Network	International Journal of Advanced Engineering Science and Technological Research, www.aestjournal.org @2015	(IJAESTR)ISSN: 2321-1202
12	Study on various methods to maximize the lifetime of wireless sensor networks	International Journal of Research in Engineering & Applied Sciences	ISSN: 2249-3905

	p.479-486		
13	Design Approach to Sense Various Parameters for Wireless Sensor Network pp.287-292	International Journal of Advanced Research in Computer Science and Electronics Engineering (IJARCSEE) Volume 3, Issue 5, May 2014	ISSN: 2277 – 9043
14	An FPGA Implementation of an Adaptive Algorithm for Data Reduction in Wireless Sensor Network	International Journal of Advanced Research in Computer Science(IJARCS)Vol.4, No.2, Jan-Feb 2013	
15	Wireless Body Area Sensor Network Authentication using HMAC function	International Journal of Computer Applications	
16	Design and Simulation of Efficient Topology Control Scheme for Wireless Sensor Network	International Journal of Electronics Communication and Computer Engineering Volume 4, Issue 1,	ISSN (Online): 2249–071X, ISSN (Print): 2278–4209
17	Energy Efficient Implementation of Wireless Sensor Network System on Embedded Web Server Using ARM7	Vol. 3 Issue 4 March 2014 ISSN: 2278-621X	International Journal of Latest Trends in Engineering and Technology (IJLTET)
18	FPGA Based Design and Performance Analysis of Wireless Sensor Nodes	Inventi Rapid: Wireless Communications & Network Vol. 2014, Issue 2 [ISSN 2278-6368]	
19	Noise Drain in Wireless Body Area Sensor Network,pp 73-76	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	ISSN: 2278-3075, Volume-1, Issue-1, June 2012
20	Detect Alcohol in Patient Body through Wireless Network	The International Journal Of Science & Technoledge	(ISSN 2321 – 919X)Vol 3 Issue 4 April, 2015
21	An Advanced Low Power Low Noise 2.45 Ghz Current Reuse - Gm Cmos Cross Coupled Vco For Wsn,pp.153-163	International Journal of Computer Engineering and Applications,	Volume IX, Issue-II February 2015 www.ijcea.com ISSN 2321-3469
22	Self Powered Wireless Sensor Network Using Hybrid PV-Wind System,pp659-663	International Journal of Engineering Research and General Science Volume 3, Issue	ISSN 2091-2730659

		2, March-April, 2015	
23	A Review On: Design of 2.4GHz FBAR Filter Using MEMS Technology for RF Applications pp.939-941	Imperial Journal of Interdisciplinary Research (IJIR) http://www.onlinejournal.in	Vol-3, Issue-3, 2017 ISSN: 2454-1362,
24	A Review On: Low Power 2.4GHz Folded Mixer Using 90nm CMOS Technology for Wireless Applications pp. 515-518	Imperial Journal of Interdisciplinary Research (IJIR)	Vol-3, Issue-3, 2017 ISSN: 2454-1362, http://www.onlinejournal.in

Sl. No.	Title with page nos.	Details of Conference Publication	ISSN / ISBN No.
1	The Role of Field Programmable Gate Array based Emulators in System Design and Verification”	ICCSP'13	
2	Design of Conveyor Monitoring Controller with Wireless System”	International Conference on Advanced Computing, Communication and Networks [ICACCN-2011] Chandigarh	
3	“Filtering of Images by Kalman Filter Using VHDL” pp.741-744,	3rd International Conference on Emerging Trends in Engineering and Technology, 2010	ISBN: 978-0-7695-4246-1,
4	FPGA Implementation of an Emulator for Wireless Sensor Node with Pt100 Temperature Sensor,	IEEE TENCON 2013 Xian China	978-1-4799-2827-9/13/ ©2013 IEEE
5	A Low Power Low Noise VCO and a High Gain LNA for WSN in 130nm CMOS RF Technology, 2015 pp.268-274	IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM), Chennai, T.N., India. 6 - 8 May	978-1-4799-9855-5/15/

		2015..	
6	Design of Self Powered Wireless Sensor Network Using Hybrid PV-Wind System	2016 IEEE Conference ISCO 2016,Karpagam College of Engineering,Tamilnadu	10.1109/ISCO.2016.7727037
7	Review on Energy Efficient Hierarchical Routing Protocol for Wireless Sensor Network	National Conference on VLSI Design and Embedded Systems GHRCE Nagpur 2012	
8	FPGA based Emulators for Design Implementation and Verification	National Conference on VLSI Design and Embedded Systems	
9	Globally Asynchronous Locally Synchronous system & Its Implementation In FPGA	National Conference on Emerging Trends in Engineering & Technology,Sanjivani vision 2008 Pune	

Any Other:

Reviewer:

- Reviewed research papers for the International conference ICETET-13.
- Reviewed research papers for the National conference NCVDES-12
- Reviewed research papers for the National conference NCVDES-13
- Reviewed research papers for the National conference NCVDES-14

R & D:

- Research work on “Design Approach to Enhance the Lifetime of Wireless Sensor Network” has been submitted to RTMNU,Nagpur
- Filed three patents.
- Two of the research papers accepted in IEEE TENCON 2013,China and one published

Completed Projects / Consultancies

Sl.No	Title	Agency	Period	Grant / Amount Mobilized (Rs. Lakh)	Whether policy document / patent as outcome
1	Surface Computing Table	Tecextra Technologies	6 months	<5 lacs	Yes

2	Chiller Dyanamic Controller	See Tech Solutions Nagpur	6 months	<5 lacs	No
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FD:

- Attended two day Workshop on Robotics organized by **IIT** Pune in association with GHRCE
- Attended one day Workshop on “Machine Intelligence Research” lab at GHRCE
- Attended Workshop on Digital System Design by Nuva COE in association with **IIT** Powai
- Attended Workshop on labview in association with National Instruments at GHRCE
- Attended Three day workshop on “Wireless Sensor Networks:Theory & Challenges” organized by **IIT** Kanpur
- Attended workshop on Fedora-7 operating system held at SRKNEC,Nagpur
- Attended one week workshop on Analog Circuit Design organized by **IIT** Kharagpur in association with GHRCE
- Attended workshop on Aakash Tablet organized by **IIT** Powai
- Attended FD on power point presentation skills at , GHRAHE,Nagpur
- Attended FD on Team work at Shraddha house, GHRAHE,Nagpur
- Attended QEEE DSP Lab workshop at **IIT** Chennai
- Attended MPDWC Three day workshop at **IIT** Bhubaneshwar
- Attended Five day workshop under GIAN at **IIT** Hyderabad
- Attended Workshop on Python programming at GHRCE
- Attended Workshop on LABVIEW organized by NI.
- Conducted workshops on Python,VHDL/VLSI,MATLAB,TANNER,Embedded