

Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science, Satara(Autonomous)

Faculty Profile

- Name : **Dr. G.S. Nhivekar**
- Department : Electronics and Computer Science
- Educational Qualification : M.Sc., SET, Ph.D. (Electronics)
- Experience : UG -06 Years
- Title of PhD Thesis :
DESIGN AND IMPLEMENTATION OF FPGA BASED EMBEDDED FUZZY LOGIC CONTROLLER FOR HIGH SPEED MACHINE TOOL TEMPERATURE CONTROL
- Name of the guide and Institution/University: Guide: Prof. R.R. Mudholkar
University: Shivaji University, Kolhapur
- Year of declaration of PhD : 2014
- Recognized as M.Phil/Ph.D guide : -
(Recognition Letter Number)
- Whether availed FDP/Fellowship/Scholarship:
UGC the Rajiv Gandhi National Fellowship (**RGNF**)
- Additional Qualification (if any) :-
- **Details of Publications (Journals/Books/Proceedings) :**

In Journals

1. **NHIVEKAR Ganesh**, MUDHOLKAR Ravi “Data Logger and Remote Monitoring System for Multiple Parameter Measurement Applications” ,Journal of Electrical and Electronics Engineering, JEEE VOL4 NO1 MAY **2011**,pp 139-142.(ISSN:18446035).
2. **G.S. Nhivekar** ,R.R. Mudholkar “Implementation of fuzzy logic control algorithm in embedded microcomputers for dedicated application” international Journal of Engineering, Science and Technology , MultiCraft ,Vol. 3, No. 4, **2011**, pp. 276-283.(ISSN: 2141-2839).
3. **Nhivekar G.S.**,Mudholkar R.R.“Microcontroller Based IR Remote Control Signal Decoder for Home Application”, Advances in Applied Science Research, **2011**, 2 (4):410-416.(ISSN: 0976 – 8610)
4. **Nhivekar G. S.** , Mudholkar R. R. “FPGA-based Re-configurable Time Proportioning DAC” , Advances in Applied Science Research, **2011**, 2 (6):190-196 .(ISSN: 0976 – 8610).
5. Dorugade Namdev H. **Nhivekar G.S.** , Mudholkar R.R. “Application of Fuzzy Composition Forelectronics Component”, IJAERS, Vol. I, Issue I, October-December, **2011**.(E-ISSN2249–8974).
6. **Nhivekar G. S.** , Mudholkar R. R., “Microcontroller Based Low Cost Portable PC Mouse and Keyboard Tester”, Leonardo Journal of Sciences (LJS), Issue 20 (January-June), **2012** (11), p. 31-36.(ISSN-1583-0223).

7. **Nhivekar G.S.**, Nirmale S.S. and Mudholkar R.R.. “ A Survey of Fuzzy Logic Tools for Fuzzy based System Design”, IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012 ICRTITCS(9):25-28, **February 2013**. Published by Foundation of Computer Science, New York, USA. BibTeX. ISSN 0975 8887

8. **Nhivekar G.S.** and Mudholkar R.R.. “ FPGA based Fuzzy Optoelectronic Color Sensor System”. IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012 ICRTITCS(9):21-24, **February 2013**. Published by Foundation of Computer Science, New York, USA. BibTeX.ISSN 0975 8887

9. **Nhivekar G.S.** and Mudholkar R.R., “Design and Simulation of Fuzzy Temperature Controller for Machine Tool”, IJESRT, 3(4), Pp-1844-1847, April, **2014** ISSN: 2277-9655. **Impact Factor: 1.852**

10. **Nhivekar G.S.** and Mudholkar R.R., “TF Estimation and Verification of Machine Tool Cooler Prototype”, International Journal of Advanced Scientific and Technical Research Issue 3(4),Pp-520-527, May-June 2014 ,ISSN 2249-9954.**Impact Factor: 2.852**

11. **Nhivekar G.S.** and Mudholkar R.R., “Design and Simulation of Fuzzy Temperature Controller for Machine Tool” International Journal Of Engineering Sciences & Research Technology , 3(4),Pp-1844-1847,ISSN: 2277-9655 , Impact Factor: 1.852

In Workshop/Conference

1. **Nhivekar G. S.**, Mudholkar R.R. “Fuzzy Optimized Energy Management –A COST effective Approach“ , 1st International Conference on Physics of Materials And Materials Based Device Fabrication (ICPMMDF-2012) ,Department of Physics, Shivaji University, Kolhapur (India). PE-18, 17-19 JAN 2012.

2. R. R. Mudholkar, **G. S. Nhivekar**, “Embryonic Electronics Technology A Tough Challenge for Institutional Education”, Workshop on Challenges in Higher Education-2012, Shivaji University Kolhapur.

3. **Nhivekar G.S.**, Nirmale S.S. and Mudholkar R.R.. “ A Survey of Fuzzy Logic Tools for Fuzzy based System Design”, IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012 ICRTITCS(9):25-28, **February 2013**. Published by Foundation of Computer Science, New York, USA. BibTeX.

4. **Nhivekar G.S.**, Nirmale S.S. and Mudholkar R.R..“ FPGA based Fuzzy Optoelectronic Color Sensor System”. IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012 ICRTITCS(9):21-24, **February 2013**. Published by Foundation of Computer Science, New York, USA. BibTeX.

5. Attar K.D. ,**Nhivekar G.S.** ,Mudholkar R.R. “Embedded Fuzzy Solar Tracking System”, National seminal on energy crisis and possible solution Dept. of Physics, KLE society, B.K.college, chikodi ECPS-2013 .

6. Attar K.D. , **Nhivekar G.S.** Mudholkar R.R.: “Students Performance Evaluation – Fuzzy Type-II Approach” Interdisciplinary national conference on information and communication technology for education (ICTE - **2013**) march 04-05, 2013. jointly organized by department of education & department of electronics Shivaji University, Kolhapur, Maharashtra.

7. S. S. Nirmale, **G. S. Nhivekar**, K. D. Attar and R. R. Mudholkar “Fuzzy Logic PVC Temperature Control To Make It Moisture Free” A National Conference On Emerging Technologies For Sustainable Developments (NCET-2012) December 27-28, **2012** (poster), Organized by Department of Technology Shivaji University Kolhapur, 416004 pp:110-111.

8. K. D. Attar, **G. S. Nhivekar** and R. R. Mudholkar “Greenhouse Parameter Control By Using Embedded Fuzzy” UGC Sponsored State Level Seminar on “Recent Development In Embedded System” December - 21-22-**2012**, (Oral) Organized by Department of Electronics Rayat Shikshan Sanstha’s, Karmaveer Bhaurao PatilMahavidyalaya Pandharpur.

9. G.S.Nhivekar , “Use of fuzzy logic in sensor signal conditioning” , UGC Sponsored State Level Seminar on Material for future technology, Department of Physics, Rajaram college Kolhapur, 26-27 Sep-2014

10. G Nhivekar, S Barkade, J Wagh, B Jadhav , Fuzzy Logic Based Contactless Risk Dedication and Prevention System to prevent COVID-19 Suspect at Entrance, Journal of Advanced Engineering Research, Vol-8, Issue-1; Jan-Feb, **2021**

11. S. S. Barkade*, G. S. Nhivekar, J. A. Wagh and B. T. Jadhav, Applicative Aspects of Piezoelectric Sensors for Power Generation, Journal of Environmental Science, Computer Science and Engineering & Technology Vol.9. No.4, 663-667, **2020**.

- **Presentations/Attendance in Conference/seminar/symposium**

- **Research Awards:**

Year	Poster Presentation		Oral Presentation		Best Paper	Young scientist	Any other (fellowship)
	Title	Conference	Title	Conference			
2010-14	--	--	--	--	--	--	UGC the Rajiv Gandhi National Fellowship (RGNF) JRF,SRF

- **Participation in curriculum development:**

Year	Role in curriculum design (BOS member, chairman, class etc)	Participation in draft syllabus workshop	
		Resource person	participant
2010-15	-	-	-

Books/Manual

1. G.S.Nhivekar, P.U.Lande, Basic Electronics-A practical approach (B.Sc.-I), Swchand Publication,ISBN:978-93-83796-05-2
2. D.M.Panahalkar, G.S.Nhivekar, N.P.Mote,S.D.Jadhav, A Lab Manual Of Practical Course In Electronics, Nirale Prakashan , ISBN:978-93-89533-82-8

Co-curricular activities

1. Guest Lecture on “*Hardware interfacing*”, Bharati Vidyapeeth Deemed University, Institute of Management and Rural Development Administration, Sangli. (IMRDA). **13- 09 -2012.**
2. Guest Lecture on “*MATLAB for Fuzzy logic*”, at Bharati Vidyapeeth Deemed University, Institute of Management, Kolhapur. On **19-08-2012.**
3. Practical session on “*Fuzzy Hardware implementation*”, at Sinhgad College of Engineering, Sinhgad Road, Pune. AICTE sponsored staff development program on “*Neural Network Design*” **21-25 June 2011.**
4. Technical session on “*Fuzzy logic toolbox in MATLAB for embedded system*”, Department of Electronics and Computer Science, Nagpur University, Nagpur. **1-2 November 2012.**
5. Technical Session on “*C CPP Programming-Spoken Tutorial*”, Jointly organized by I.I.T. Mumbai and Department of Computer Science. Shivaji University. **2013.**
6. Resource person ,One day workshop on “*Spoken Tutorial*” on **29th Jan 2014**, jointly organized by IIT Bombay and Department of Technology, Shivaji University Kolhapur.
7. Guest Lecture on “*Op-Amp*”, Rajaram College Kolhapur. **11-10 -2014.**

- **Innovative teaching methods**

used(PPT/Films/OHP/Games/Podcasting/POGIL/Mobile/emails):