

Name:- Ms. Kalpana A. Kulkarni

Personal Details:-

Name	KULKARNI	KALPANA	ANAND
Department	Electronic Science		
Designation	Assistant Professor		
Qualification(s)	M. Sc.(Electronic Science)		
Certification(s)/Professional Courses/Exams	NET		
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Member Of:-

College Committees	Other Committees
Time Table	Member of UGC/ MHRD's e-PG Pathshala Project Management Team (Electronics Science)
Placement	

Research Done:

Doing the **Ph. D** under the Guidance : **Dr. M. S. Zambare**

Area of Interest in Research:

Wireless Sensor Network
Embedded System

Research publications:

K. A. Kulkarni , A. D. Shaligram, "Ray tracing Model of the sensor for arbitrarily shaped Random solid Particle Suspension", International Conference on Microwaves and Optoelectronics (ICMO2007) Dec.17-20, 2007, at the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India.
K. A. Kulkarni , A. D. Shaligram, "Exploring J2ME as a programming platform for mobile computing", National Seminar on Current Trends in Information Technology, at S. N. Arts, D. J. Malpani Sci. college-Sangmner, Maharashtra, on 9-11 Feb. 2008
K. A. Kulkarni , Y. S. Khandge, S. P. Khedkar, N. M. Kulkarni, M. S. Zambare, "Designing Multichannel Data Logging System For Monitoring Environmental Parameters", National Conference on

Sensor Networks and Embedded Systems(NCSNES-2011), at Abasaheb Garware College-Pune, on 2-4 Feb. 2011.

K. A. Kulkarni, M. S. Zambare “ Use of Gas Sensors and wireless sensor network for the environmental parameter monitoring: Current trends and challenges”, International Conference on Current Trends and Challenges in Management, Engineering, Computer Application and Technology(ICCTCMECAT), at Deogiri College of Engineering, Aurangabad, on 23-25 March, Published in Conference Proceeding, ISSN 2249-7455 Vol.1, Issue 6(V)- 2012, pg.95-98

K. A. Kulkarni, D. P. Londhe, N. M. Kulkarni, A. D. Shaligram, M. S. Zambare, “Development of an embedded system for monitoring CO₂ and O₂ levels”, presented in National Conference (NCRIGE-2013) at Amrawati, Maharashtra(8-9 Feb 2013) and published for *Journal of SPEED Vol. 1, Issue 1(2012)*, pg. no. -

K. A. Kulkarni, N. M. Kulkarni, M. S. Zambare, “Measurement of environmental parameters in a closed chamber using Wireless Sensor Node”, presented in National Symposium On Instrumentation (NSI-38) - 24th to 26th October 2014, published in *Journal of Instrument Society of India, ISSN-0970-9983, vol.44, No.2, June2014*, pg. no. -

K. A. Kulkarni, M. S. Zambare, “Monitoring the environmental parameters in a closed chamber for the analysis of Air pollution for green and clean environment”, presented paper in National Conference on Energy and Environment (NC2E - 2014), University of Pune, February 20th – 22nd, 2014

K. A. Kulkarni, A. A. Deshpande, M. K. Mule, M. S. Zambare, “Development of Embedded System for measuring CO concentrations in room with Gas Geyser” Presented paper in National Seminar on Physics and Technology of Sensors **NSPTS-18**, on 6-8th March 2014 held at Tuljaram Chaturchand College, Baramati, Dist. Pune, **First prize for best product: Dr. N. G. Patel Prize.**

K. A. Kulkarni, J. V. Khedkar, S. P. Khedkar, A. D. Shaligram, M. S. Zambare, “Mathematical modeling of variation of CO₂ and O₂ contents in a closed chamber due to vegetation” ,paper presented in National conference on- Advances in Electronics and its interdisciplinary Applications(NCAEIA-2014) at Fergusson College, Pune, held between 20th -21st Sep.2014 and published in proceedings of NCAEIA, ISBN:978-93-5174-783-3

Seminars and Workshops Attended:-

Sr.No.	Name of Seminar/ Workshops	Date/ Year
1	One Day Workshop on “F. Y. B. Sc. (Electronic Science) Syllabus Revision” organized by Fergusson College, Pune-4.	4, 6 th August 2007
2	Two day Workshop on “Project Management Using MS. Project Tool” organized by SRG Consultant and Dept. Of Electronic Science, University of Pune-7.	4-5 th May 2007
3	One Day Workshop on “Implementation of M. Sc. (Electronic Science) Part I, organized by Fergusson College, Pune-4.	21 st August 2008
4	One Day Workshop on “Syllabus Revision of M. Sc. (Electronic Science)”organized by Modern College of Arts Science and Commerce, Shivajinagar, Pune.	11 th October 2008
5	Two day National Workshop on “Embedded System Development with hands on training using ARM processor”, organized by Modern College of Arts, Science and Commerce, Shivajinagar, Pune	20-22 October 2008
6	One Day Workshop on “T. Y. B. Sc. (Electronic Science) Syllabus Revision on Microcontroller and Power Electronics” organized by Fergusson College, Pune-4	28 th November2009
7	One Day Workshop on “Wireless Sensor Networks”, 15 th National Seminar on Physics and Technology of Sensors, organized by Centre for Sensor Studies, Department of Electronics Science, University of Pune and IEEE India SSCS Chapter.	3 rd March 2010
8	Seven day Workshop on “Embedded Product Development” organized by SAN Techno Mentors Pvt. Ltd in Fergusson College, Pune-4	14-19 th September 2010
9	One Day Workshop on “Teaching Methodology for MATALAB and C”, organized by Fergusson College, Pune-4	8 th January 2011
10	One Day Workshop on “Antenna Training” organized by Symbiosis College of Arts and Commerce-Pune.	28 th January 2011
11	One Day training on “Designing with Xilinx 7 series Families” during Xilinx Technical Knowledge Summit 2011-2012 Pune.	1 st Feb.2012
12	One day seminar on “MATLAB and Simulink for Engineering Education” organized by MathWorks India. 14 th March 2012	14 th March 2012

13	One Day Workshop on “Panel Discussion on Research Methodology” organized by Research centre in Electronic Science, Fergusson College, University Grant Commission (UGC) and Society for Promotion of Excellence in Electronics Discipline (SPEED)	27 th March 2012
14	One Week ISTE approved National workshop on “Embedded System Design-using PIC Microcontroller (ESDPIC- 2012)” at Pune Institute of Computer Technology, Pune.	18-22 June 2012
15	One day workshop on “Embedded Systems (AVR Microcontroller)” organized by PROTUS SYSTEMS	20 th Oct. 2012
16	One day seminar on “MATLAB and Simulink for Engineering Education” organized by MathWorks India.	14 th March 2014

Seminars and Workshops Organized:-

Embedded Produce Design (SAN Techno Mentors)- 14 September 2010
Embedded Systems (AVR Microcontroller), PROTUS Systems Pune-20 Oct 2012
Panel Discussion on Research Methodology- 27 March 2012
Preparation and Implementation of M.Sc. Part 2 Electronic Science syllabus as per choice based credit system -26th Feb 2013
Promotion on excellence in Electronics- 24 Aug 2013
Research Planning and Technical paper writing under faculty training program-13th to 14th Jan 2014
Preparation and Implementation of M.Sc. Part 1 Electronic Science syllabus as per choice based credit system- 8 Feb 2014
National Conference on Advances in Electronics and its Interdisciplinary Application [NCAEIA-2014] - 19th and 20th September 2014

Other Accomplishments:-

First prize for best product design: Dr. N. G. Patel Prize
National Seminar on Physics and Technology of Sensors NSPTS-18 , on 6-8 th March 2014 held at Tuljaram Chaturchand College, Baramati