

## Resume of Dr. L. M. Waghmare



### 1. General Information:

- A. Full Name : **Laxman Madhavrao Waghmare**
- B. Date of Birth: : 02-05-1963
- C. Present Post: : Dean (Science and Technology)  
Grade Pay: : S-14 (7<sup>th</sup> pay) (Regular pay matrix Rs.144200/- to 218200)  
Name of the Organization: : Swami Ramanand Teerth Marathwada University,  
Nanded – 431 606 (MS)
- D. Address for communication : Prof. L. M. Waghmare  
Dean (Science and Technology)  
Swami Ramanand Teerth Marathwada University,  
Nanded – 431 606 (MS)
- E. Permanent Address : 112, “SMRUTI”, Ashirwad Nagar,  
Taroda (Bk) Road, Nanded – 431 605 (MS)
- F. E-mail id : : [lmwaghmare@yahoo.com](mailto:lmwaghmare@yahoo.com); dean.st@srtmun.ac.in
- G. Mobile Number : 9822663185

### 2. Educational Qualification

Examination/ Degree	Board/ University	Institute	Year of Passing	Division/ CGPA	Marks in %
Ph. D.	Indian Institute of Engineering, Roorkee	IIT, Roorkee	2001		
M. E. (Instrumentation)	Marathwada University, Aurangabad	SGGS Institute of Engineering and Technology, Nanded	1990	First Division with Distinction	71.00
B. E. (Instrumentation)	Marathwada University, Aurangabad	SGGS Institute of Engineering and Technology, Nanded	1986	First Division	64.80
Higher Secondary (H.S.C.)	Aurangabad Divisional Board	Science College, Nanded	1982	First Division	66.67
Secondary (S.S.C.)	Aurangabad Divisional Board	Mahatma Phule High School, Nanded	1979	Second Division	58.12
Any other MS-CIT	MKCL, Mumbai	MKCL, MSBTE, Mumbai	Oct. 2002		77.00

### 3. Awards/reorganization:

- K S Krishnan Award instituted by Institution of Electronics & Telecommunication Engineering (IETE), (2004)
- Certificate of Excellent Performance is awarded by the Regional office of Director of Technical Education, Aurangabad (dated 07.11.2007)

#### 4. Experience:

##### (A) Teaching Experience:

Institution*	Post	From	To	Total (years)
SGGS Institute of Engineering and Technology, Nanded (Department of Instrumentation Engineering)*	Professor	15-12-2001	28-07-2019	17 & 1/2 yrs
	Assistant Professor	16-07-1993	14-12-2001	7 & 1/2 yrs
	Lecturer	08-12-1986	15-07-1993	6 & 1/2 yrs
	<b>Total Experience :</b>			31 yrs

\*Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded - 431606  
(Government Aided Autonomous Institute)

##### (B) Administrative Experience

Sr. No.	Post	Period	Name of the University/Colleges
1.	Dean (Science and Technology)	29-07-2019 - till date	Swami Ramanand Teerth Marathwada University, Nanded
2.	Director (Principal)	21.06.2012 - 22.04.2018 (5 yrs and 09 months)	SGGS Institute of Engineering and Technology, Nanded (Government Aided Autonomous Institute)
3.	Dean (ad hoc) (Engineering and Technology)	15.05.2012 - 29.07.2015	Swami Ramanand Teerth Marathwada University, Nanded
5.	Dean (Academic)	07.10.2011 - 21.06.2012	SGGS Institute of Engineering and Technology, Nanded (Government Aided Autonomous Institute)
6.	Dean ( R and D)	01.03.2009 - 06.10.2011	
7.	Head of The Department (Instrumentation Engineering)	07.07.2006 - 28.02.2009	
8.	Chairman, Central Purchase Committee	14.05.2005 -17.05.2012	
9.	Member and Secretary, Board of Management of the institute	21.06.2012 – 22.04.2018	
10.	President, SGGS Engineers Alumni Association (SEAA)	21.06.2012 – 22.04.2018	

Shouldered crucial responsibilities as:

- Coordinator, Internal Quality Assurance Cell (IQAC) of the Institute (2018-19)
- Coordinator for NAAC preparation and submission of SSR of the institute (2018-19)
- Nodal Officer (Procurement) for TEQIP project of the institute funded by World Bank, a GOI Project.
- Custodian at SRT Marathwada University, Nanded, from January 02, 2004 till the declaration of results of the semester examination.

- Chief Superintendent of University Examination for May/June, 2005, May/June, 1993, Dec./Jan. 1993-94, Dec./Jan.1994-95
- Member of flying squad for Dec/Jan. 2001-2002 examination of SRT Marathwada University examination.
- Member, NBA Peer Committee Constituted by the AICTE for the accreditation of the technical institutes in India
- Member, UGC Expert Committee to evaluate the performance and academic attainments for the conferment of fresh autonomous status to the technical institutes
- Member of appellate committee constituted by AICTE.
- Pragyaa - 2010: Faculty coordinator for National level technical event
- Alumni meet 2010: Faculty Coordinator for second silver jubilee alumni meet (1986 batch) on December 25-26, 2010 at Nanded
- Alumni meet 2008: Faculty coordinator and Head of the Department, organized second alumni meet on Jan. 27, 2008 (Sunday) at VJTI Auditorium, VJTI, Matunga, Mumbai.
- Alumni meet 2007: Faculty coordinator and Head of the department, organized first ever alumni meet on Jan. 21, 2007 at Pune.
- ICON2007: Faculty coordinator for two day 4<sup>th</sup> national student conference on “Instrumentation and Control (ICON2007)” held during February 17-18, 2007.
- UTSAV 2000: Faculty in-charge, student annual social gathering in the academic year 2000-2001

#### 5. Membership of Professional Bodies:

1.	Member of Institution of Engineering and Technology (IET), UK
2.	Member of Institute of Electrical and Electronics Engineers (IEEE), USA, (92248150)
3.	Member of Indian Society for Technical Education, New Delhi (LM 8548 in 1991)
4.	Member of Institution of Electronics and Telecommunications Engineers (IETE)
5.	Life member of Instrument Society of India (LM-1275)
6.	Fellow of IE (India) (F-1122084-4 (Reg. No. 070200834890) dated May 02, 2007

#### 6. Projects Executed:

Sr. No.	Title of the project	Project Cost (Rs. In lakh)	Granting agency	Date of start	Date of Completion
1.	Design of Intelligent Controllers for Under Water Vehicles (Research project)	24.00	NRB (DRDO)	2012-13	Completed
2.	Modernization of PLC/DCS and Automation Laboratory (MODROB)	10.00	AICTE	2007-08	Completed
3.	Design and development of ANN based controllers for on line process control application (RPS)	05.00	AICTE	2007-08	Completed
4.	Development of systems and control Laboratory for computer process control (TAPTEC)	06.00	AICTE	2002-03	Completed

## 7. Experience to guide Ph.D. students:

Completed (Main Guide) = 11, Ph.D. Completed Co-Guide = 06, On Going = 08

### (a) Experience to guide Ph.D. students as (Main-Guide)

Sr. No.	Student	Thesis title	Period of Guideship	Ph D awarded in
1.	Girish Vithalrao Lakhekar	An Investigation of Adaptive Fuzzy Sliding Mode Control for Underwater Vehicles	2014-15 Awarded on 11.01.2019	Faculty of Engineering and Technology
2.	Santosh Prabhakar Agnihotri	Iterative and Nature Inspired Algorithm for Tuning PID Controller with Higher Order Time Delay System	2008-09 to 2017-18 Awarded on 01-02-2018	Faculty of Engineering and Technology
3.	Dilip Damodar Choudhary	Delay Analysis in Wireless sensor networks	2007-08 to 2015-16 Awarded on 02-04-2016	Faculty of Engineering and Technology
4.	Dipali Uddhavrao Shinde	Developments In Model Predictive Controllers For Process Control Applications	2007-08 to 2015-16 Awarded on 05-03-2016	Faculty of Engineering and Technology
5.	Kailas Shankarrao Holkar	Investigation of Some Predictive control Strategies for Improved Process Performance	2007-08 to 2015-2016 Awarded on 07-12-2015	Faculty of Engineering and Technology
6.	Sanjay Arjun Deokar	Analysis of Power Quality Disturbances in Distribution Network and its Mitigation Measures	2007-08 to 2013-14 Awarded on 13-09-2013	Faculty of Engineering and Technology
7.	Kalpana Chokhoba Jondhale	Human Face Recognition using FSVD and RBF Neural Network or Biometric Systems: A Face Recognition Approach	2005-06 to 2012-13 Awarded on 30-10-2012	Faculty of Engineering and Technology
8.	Gajanan M. Malwatkar	Design of PID Controllers for Improved Performance of Higher Order Systems	2007-08 to 2011-12 Awarded on 24-07-2011	Faculty of Engineering and Technology
9.	Rajendra Daguba Kokate	Some Studies on Model predictive control Strategies for Improved Process Performance	2007-08 to 2012-13 Awarded on 02-07-2012	Faculty of Engineering and Technology
10.	Sandipann P. Narote	Iris Recognition Based New Technique for Person Identification	2006-07 to 2010-11 Awarded on 13-07-2010	Faculty of Engineering and Technology

11.	Ms. Vanajaroselin	Enhancement of Person Identification Using Iris Patterns	Awarded on 30.11.2018	Faculty of Engineering and Technology
12.	Usha Ramdas Kamble	Person Identification using Iris Recognition	In progress	Faculty of Engineering and Technology
13.	Abhilasha Sandipan Narote	Personal Authentication Based on Color Iris Images	In progress	Faculty of Engineering and Technology
14.	Sangita Bapu Patil	Intelligent energy management strategies for renewable energy sources	2015-16 In progress	Faculty of Engineering and Technology
15.	Gajanan Madhavrao Galshetwar	Content Based Bio-Medical Image Retrieval System	2015-16 In progress	Faculty of Engineering and Technology
16.	Sumit Suhas Aole	Design of Development of control Techniques for Robotic Manipulators	2017-18 In progress	Faculty of Engineering and Technology
17.	Kumud Ranjan Roy	Intelligent Control Strategies For Unmanned Aerial Vehicles	2018-19 In progress	Faculty of Engineering and Technology

**(b) Experience to guide Ph.D. students as (Co-Guide)**

<b>Sr. No.</b>	<b>Student</b>	<b>Thesis title</b>	<b>Period of Guideship</b>	<b>Ph D awarded in</b>
1.	Nitin Jagannath Patil	Adaptive Fuzzy Controllers (fuzzy - Neuro Based Expert Controllers For Process Control Applications Embedded Systems) (joint guidance with Dr. R. H. Chile)	Awarded on 1-04- 2013	Faculty of Engineering and Technology
2.	Madhukar Jagannath Lengare	Genetic algorithms and its applications OR Design of PID controllers for Single and multivariable systems (joint guidance with Dr. R. H. Chile)	Awarded on 03-04-2012	Faculty of Engineering and Technology
3.	Sangita Vishwas Kurundkar	Quality Of Service In Routing (joint guidance with Dr. S. M. Joshi )	Awarded on 25-02-2017	Faculty of Engineering and Technology
4.	Channappa Bhyri	Use of Disease Coding and Scoring Patterns for Diagnosis of Heart Diseases (joint guidance with Dr. S. T. Hamde )	Awarded on 20-12-2013	Faculty of Engineering and Technology
5.	Kalpna Kashappa Vanjerkhede	Study of Effect of Diabetes on ECG (joint guidance with Dr. S. T. Hamde )	Awarded on 22-08-2015	Faculty of Engineering and

				Technology
6.	Pandurang Shahaji Londhe	Some Studies on Control of Autonomous Underwater Vehicles (joint guidance with Dr. B. M. Patre)	Awarded on 28-04-2015	Faculty of Engineering and Technology
7.	Nilima Balaji Mohite	Content Based Image Retrieval for Medical Applications (joint guidance with Dr. A. B. Gonde)	In progress	Faculty of Engineering and Technology
8.	Parmeshwar Shyamsundar Patil	Change Detection Analysis of Remote Sensed Images (joint guidance with Dr. R. S. Holambe )	In progress	Faculty of Engineering and Technology

### 8. Experience to guide M. Tech. Dissertation:

Guided 40+ students for their M. Tech. Dissertation

### 9. Publications:

#### (a) Books/book chapters:

Sr. No.	Title of the book/ book chapters	Name of the publisher
<b>Book</b>		
1.	Iris Recognition Based New Technique for Person Identification (S P Narote, R S Holambe, L M Waghmare)	VDM Verlag Publisher UK, April 2011
<b>Book Chapter</b>		
1.	Neural Generalized Predictive Control for Industrial Processes, book Automation and Control-Theory and Practice, (ISBN 978-953-7619-39-8) (Sadhna Chidrawar, Balasaheb Patre, Laxman Waghmare)	In-Tech Publishers, Vienna, Austria, pp. 199-230, 2009.
2.	Dynamic fuzzy sliding mode control of underwater vehicles (G.V.Lakhekar and L.M.Waghmare)	Springer book chapter: Advances and Applications in Sliding Mode Control systems series: Studies in Computational Intelligence, Vol. 576, pp. 279-304, 2014
3.	Diving autopilot design for underwater vehicles using an adaptive neuro-fuzzy sliding mode controller (G.V. Lakhekar, L.M. Waghmare and Sundarapandian Vaidyanathan)	Springer book chapter: Advances and Applications in Nonlinear Control systems series: Studies in Computational Intelligence, Vol. 635, pp. 477 - 503, 2016

**(B) Publications in International/ National Journals:****(a) International Journals**

<b>Sr. No.</b>	<b>Title of the publication</b>	<b>Name of the international journal</b>	<b>Year</b>
01.	Robust diving motion control of an autonomous underwater vehicle using adaptive neuro-fuzzy sliding mode technique (Girish Vithalrao Lakhekar, Laxman M. Waghmare, Rupam Gupta Roy)	IEEE <i>Access</i> On page(s): 1-14 Print ISSN: 2169-3536 Online ISSN: 2169-3536	2020
02.	Disturbance Observer-Based Fuzzy Adapted S-Surface Controller for Spatial Trajectory Tracking of Autonomous Underwater Vehicle (Girish Vithalrao Lakhekar, Laxman M. Waghmare, Rupam Gupta Roy)	IEEE Transactions on Intelligent Vehicles, Vol. 4, No. 4, December 2019, PP.622 -636	2019
03.	Adaptive fuzzy exponential terminal sliding mode controller design for nonlinear trajectory tracking control of autonomous underwater vehicle (GV Lakhekar, LM Waghmare)	International Journal of Dynamics and Control (2018) 6:1690–1705, (Springer Publication)	2018
04.	Disturbance estimator based non-singular fast fuzzy terminal sliding mode control of an autonomous underwater vehicle (BM Patre, PS Londhe, LM Waghmare, S Mohan)	Ocean Engineering 159, 372 - 387 (July 2018)	2018
05.	Robust maneuvering of autonomous underwater vehicle: an adaptive fuzzy PI sliding mode control (GV Lakhekar, LM Waghmare)	Intelligent Service Robotics, Vol. 10, No.3, PP 195-212,	2017
06.	Robust task-space control of an autonomous underwater vehicle-manipulator system by PID-like fuzzy control scheme with disturbance estimator (PS Londhe, M Santhakumar, BM Patre, LM Waghmare)	Ocean Engineering, 139 (2017), PP. 1-13	2017
07.	Task-Space Control of an Autonomous Underwater Vehicle-Manipulator System by Robust Single-Input Fuzzy Logic Control Scheme (PS Londhe, M Santhakumar, BM Patre, LM Waghmare)	IEEE Journal of Oceanic Engineering, Vol. 42, No. 1, pp. 13-28,	2017
08.	Robust Proportional Derivative (PD)-like Fuzzy Control Designs for Diving and Steering planes Control of an Autonomous Underwater Vehicle (PS Londhe, BM Patre, LM Waghmare, M Santhakumar)	Journal of Intelligent and Fuzzy Systems, Vol. 32, No. 3, pp. 2509–2522	2017
09.	Robust nonlinear PID-like fuzzy logic control of a planar parallel (2PRP-PPR) manipulator (PS Londhe, Y Singh, M Santhakumar, BM Patre, LM Waghmare)	ISA Transactions, Vol. 63, pp. 218–232	2016
10.	Uncertainty and disturbance estimator based sliding mode control of an autonomous	Springer Publication : International Journal of Dynamics and Control,	2016

	underwater vehicle (PS Londhe, DD Dhadekar, BM Patre, LM Waghmare)	18 July 2016	
11.	Optimal Tuning of PID Controller with Higher Order Time Delay System Using CS and SRMR Technique (SP Agnihotri, LM Waghmare)	Journal of Intelligent & Fuzzy Systems, Vol. 31, NO. 3, 1287-1297	2016
12.	Predictive sliding mode based cascade control for parametric uncertainty (KS Holkar, LM Waghmare, GV Lakhekar)	International Journal of Dynamics and Control, Vol. 3, No.4, 2015, PP 437–447(Springer)	2015
13.	Iterative algorithm and curve fitting technique for tuning with time delay system PID controller (SP Agnihotri, LM Waghmare)	Journal of Intelligent & Fuzzy Systems, Vol. 29, No. 4, 2015, pp. 1527-1537	2015
14.	Predictive PI control for multivariable non-square system with multiple time delays (D Shinde, S Hamde, L Waghmare)	International Journal for Science and Research in Technology, Vol. 1, Issue 5, May, 2015, pp. 26-29	2015
15.	Regression model for tuning the PID controller with fractional order time delay system (SP Agnihotri, LM Waghmare)	Ain Shams Engineering Journal (June, 2014) 5 (4), 1071–1081 (Elsevier Publication)	2014
16.	Model Reference Learning Approach with Predictive PI for higher order systems (D Shinde, S Hamde, L Waghmare)	International Journal on Computer Science and Electronics Engineering, Vol. 2, issue 1, pp. 1-5	2014
17.	Nonlinear Predictive Proportional Integral controller for multiple time constants (D Shinde, S Hamde, L Waghmare)	International Journal of Innovative research in Advanced Engineering, Vol. 1, Issue 7, August 2014, pp.53-58	2014
18.	Sliding mode control with Predictive PID sliding surface for improved performance (K.S. Holkar, L. M. Waghmare)	International Journal of Computer Applications, Vol. 78 (4), (2013) pp. 1-5	2013
19.	Improved Performance of SOPDT Process using Rule Base Shifting Scheme for Fuzzy PI Controller (Nitin Jagannath Patil, Rajan Hari Chile, and Laxman Madhavrao Waghmare)	International Journal of Control, Automation, and Systems (2013) 11(5):1053-1062	2013
20.	Design of decentralized controllers for MIMO processes (M.J. Lengare, R.H. Chile, L.M. Waghmare)	Computers and Electrical Engineering, (Elsevier) 38 (2012) pp. 140-147	2012
21.	A review on techniques with Generalised predictive control (Kails Holkar, L. Waghmare)	International Journal of Automation and Control, Vol. 5, No. 4, pp.299–336, 2011	2011
22.	Review of tuning methods of DMC and Performance evaluation with PID algorithms on a FOPDT model (R D Kokate and L M Waghmare)	International Journal of Control and Automation, Vol. 4, No. 2, (2011) pp. 95-110	2011
23.	Fuzzy approach for the cascade control of interconnected system (GV Lakhekar, LM Waghmare and V. G. Asutkar)	International Journal of Soft Computing 5(3), Medwell Journals, pp. 116-127	2010
24.	Design of centralized PI/PID controllers for processes with parameter uncertainty and interactions (G. M. Malwatkar, L. M. Waghmare)	International Systems Science Journal, Vol. 36, No. 2, pp. 39-50	2010



25.	Design of Controllers for Higher-Order-plus-Delay-Time Processes: A Practical Solution (Gajanan Malwatkar, Laxman Waghmare)	International Journal of Computer Applications (0975 - 8887), Vol. 01, No. 21, PP 33-38	2010
26.	An overview of model predictive control (K S Holkar, L M Waghmare)	International Journal of Control and Automation, Science and Engineering Research Support Society, Republic of Korea, Vol. 03, No. 04, pp.47 – 64	2010
27.	An IMC-DMC Control for heat exchanger process (R. D. Kokate, L. M. Waghmare)	International Journal of Computer Applications, Vol. 1, No. 26, pp. 096 – 100	2010
28.	Research and application of predictive control based on state feedback theory in power plant control system (R. D. Kokate, L. M. Waghmare)	International Journal of Computer Applications pp: 988 - 990, Vol. 1, No. 27	2010
29.	Fuzzy adaptive Controllers for Speed Control of PMSM Drive (N. J. Patil, R. H. Chile, and L. M. Waghmare)	International Journal of Computer Applications, Vol. 1, No.11, pp.94-101	2010
30.	Tuning PID controllers for higher order oscillatory systems with improved performance (G M Malwatkar, S H Sonawane, L M Waghmare)	ISA Transactions 48 (2009), pp.347-353	2009
31.	Auto Tuning of PID Controller for MIMO Processes (M. J. Lengare, R. H. Chile, L. M. Waghmare and Bhavesh Parmar)	International Journal of Electrical and Computer Engineering, Vanice, Italy, 4:3, pp. 169 -172	2009
32.	Design of MRAFC for CSTR process (Nitin Jagannath Patil, Rajan Hari Chile, and Laxman Madhavrao Waghmare)	International Journal of Computer Science and Applications, Vol. 2, No.1, pp.30-33	2009
33.	A new approach to adaptive fuzzy PI controller using output scaling factor and reference models (Nitin Jagannath Patil, Rajan Hari Chile, and Laxman Madhavrao Waghmare)	Control and Intelligent Systems 01/2013; 41(1): PP 1 – 8	2013
34.	Implementation of Model Reference Adaptive Fuzzy Controller (D Shinde, S Hamde, L Waghmare)	International Journal of Engineering Science & Technology, Vol. 4, No.2, pp.41-45, 2008	2008
35.	Adaptive Fuzzy Controller for Industrial Temperature Process	Journal of Research and Computing Science, vol. 16, pp. 63-69	2008
36.	Heuristic strategy for the optimal selection of neural network parameter (S. C. Saxena, Vinod Kumar, L. M. Waghmare)	International Journal of Information Technology, volume 1, Number 3, 2004 ISSN: 1305-239X, pp.131-134.	2004
37.	Multi-dimensional multi-directional mask maximum edge pattern for bio-medical image retrieval (G. M. Galshetwar, L. M. Waghmare, A. B. Gonde, S. Murala)	International Journal of Multimedia Information Retrieval, 2018, (Springer Publication)	2018
38.	Edgy salient local binary patterns in inter-plane relationship for image retrieval in diabetic Retinopathy	Procedia Computer Science 115 (2017) pp. 440-447 (Elsevier Publication)	2017
39.	Modeling and Statistical Analysis of Scenario Metric Parameters of Ad Hoc on Demand	Wireless Pers Communication (2017), 96:183-197	2017

	Distance Vector Routing Protocol (Sangita Kurundkar, Sangeeta Joshi, Laxman Waghmare)		
40.	Performance Evaluation of Improved Directional Ad Hoc on Demand Distance Vector Routing Protocol (Sangita Kurundkar, Sangeeta Joshi, Laxman Waghmare)	Wireless Pers Commun (2017) 97 PP 1985–1996 (Springer)	2017
41.	Color Iris Authentication using Color Models (Abhilasha S. Narote, Laxman Waghmare)	International Journal of Computer Applications (0975 – 8887) Vol.159, No 2, Feb. 2017	2017
42.	Design Challenges of Wireless Sensor Network and Impact on Healthcare Applications (Dilip D. Chaudhary · Laxman M. Waghmare)	International Journal of Latest Research in Science and Technology, Vol.3, No. 2: PP. 110 - 114, March-April, 2014	2014
43.	A New Dynamic Energy Efficient Latency Improving Protocol for Wireless Sensor Networks (Dilip D. Chaudhary, Laxman M. Waghmare)	Wireless Personal Communications (An International Journal) June 2014, Vol. 76, No. 3, pp 351–362	2014
44.	Iris Biometric Authentication used for Security Systems (Vanaja Roselin. E. Chirchi, Laxman M Waghmare)	I.J. Image, Graphics and Signal Processing, 2014, 9, 54-60	2014
45.	Integrated DWT-FFT approach for detection and classification of power quality disturbances (S. A. Deokar, L. M. Waghmare)	International Journal of Electrical Power and Energy Systems, (Elsevier), Vol. 61, pp. 594-605	2014
46.	A New Approach to the Design of Hybrid Finer Directional Wavelet Filter Bank for Iris Feature Extraction and Classification using k-out-of-n:A post-classifier (Amol D. Rahulkar, Laxman M. Waghmare, Raghunath S. Holambe)	Springer, Pattern Analysis and Application, Vol.17, No.3, pp.529-547	2014
47.	Iris Recognition using Enhanced Method for Pupil Detection and Feature Extraction for Security Systems (Vanaja Roselin. E. Chirchi, and L. M. Waghmare)	International Journal of Computer Science & Network Security, Vol. 13 No. 11, (2013) pp. 55 – 62	2013
48.	Feature Extraction and Pupil Detection Algorithm Used for Iris Biometric Authentication System (Vanaja Roselin E. Chirchi and L. M. Waghmare)	International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol.6, No.6 (2013), pp.141-160	2013
49.	Discrete Wavelet Transform Based Classifier for PQ disturbance detection (Vanaja Roselin E. Chirchi and L. M. Waghmare)	International Journal of Scientific & Industrial Research, Vol. 72(2), pp. 92-100	2013
50.	ECG feature extraction using Principal Component analysis for studying the effect of diabetes (V. Kalpana, S. T. Hamde, and L. M. Waghmare)	Journal of Medical Engineering and Technology, 2013, 37(2), 116-126	2013
51.	DVR control strategy for dynamic power quality disturbance mitigation (Sanjay A. Deokar, Laxman M Waghmare)	International Journal of Scientific and Research publications (IJSRP), (2012) Vol.2, No.11, pp.1-9,	2012
52.	Non-invasive estimation of diabetes related features from ECG using graphical programming language and matlab (Kalpana. V, S. T. Hamde and L. M. Waghmare)	Journal of Mechanics and Medicine in Biology, 2012, Vol. 12, No.4.	2012
53.	ECG feature extraction and disease diagnosis (Channappa Bhyri, S.T. Hamde and L.M. Waghmare)	Journal of Medical Engineering & Technology, 35 (6-7); (2011), pp.354-361	2011
54.	ECG Acquisition and Analysis System for Diagnosis of Heart Diseases (Channappa Bhyri, Satish T. Hamde, Laxman M. Waghmare)	Sensors & Transducers Journal, Vol. 133, Issue 10,(2011) pp. 18-29	2011

55.	Application of Wireless Sensor networks For Greenhouse Parameter Control in Precision Agriculture (D. D. Chaudhary, S. P. Nayse, L. M. Waghmare)	International Journal of Wireless & Mobile Networks, Vol. 3, No.1, (2011) pp. 140-149	2011
56.	Iris Biometric Recognition for Person Identification in Security Systems (Vanaja Roselin. E. Chirchi, L. M. Waghmare, E. R. Chirchi)	International Journal of Computer Applications (0975 – 8887), Volume 24– No.9, June 2011	2011
57.	Analysis of Distribution Transformer Performance under Non-linear Balanced Load Conditions and Its Remedial Measures (Sanjay A. Deokar, Laxman M. Waghmare)	International Journal of Emerging Technology and Advanced Engineering. Vol. 1(2), (2011) pp.152-161	2011
58.	A hybrid technique for ECG parameter extraction using LabVIEW and Matlab (V. Kalpana, S. T. Hamde, and L. M. Waghmare)	Journal of Medical Imaging and Health Informatics, Vol.1, (2011) pp 360-365	2011
59.	The Effect of Routing Protocols on End-to-End Delay and Energy consumption in event driven Wireless Sensor Networks (D. D. Chaudhary, V. M. Wadhai, L. M. Waghmare)	International Journal Computer Science and Network Security, ISSN: 1738-7906, Vol.10, No. 10, pp.14-18	2010
60.	Induction motor voltage flicker analysis and its mitigation measures using custom power devices: A case study (Sanjay A. Deokar, Laxman M. Waghmare)	International Journals of Engineering Science and Technology. Vol. 2(12), (2010), pp.7626-7640	2010
61.	Estimation of ECG Features using LabVIEW (Channappa Bhyri, Kalpana.V, S. T. Hamde, and L. M. Waghmare)	International Journal of Computing Science and Communication Technologies, Vol. 2, No.1, pp 320-324	2009
62.	Iris Based Recognition System Using Wavelet Transform (S. P. Narote, A. S. Narote and L.M. Waghmare)	International Journal of Computer Science and Network Security, Vol.9 No.11, pp. 101-104	2009

**(b) National Journals**

Sr. No.	Title of the publication	Name of the National Journal	Year
1.	Cascade control of interconnected system using neural network (S. C. Saxena, V Kumar, L M Waghmare) (Recipient of K.S. Krishnan Memorial National Award).	IETE Journal of research, Vol.48 No.6, pp. 461-469, Nov. Dec. 2002.	2002
2.	Delay Analysis of Wireless Sensor Network in Industrial Control Applications (D. D. Chaudhary, L. M. Waghmare)	National Journal of Innovation and Research (IETE), Vol. 2, No. 01, pp. 03-08, Dec. 2014	2014
3.	Genetic approach to Design of Decentralized Controllers for Multivariable Processes (M.J.Lengare, R.H. Chile, L.M. Waghmare,)	Journal of the Instrument Society of India, Vol.41, No.2, June 2011	2011
4.	GA Approach for linear system identification (L. M. Waghmare, Sarang Patil)	National Journal of Instrument Society of India, Vol. 34, No.3 pp. 195 - 201, Sept.2004	2004
5.	Neural Networks in Process Control-An Overview (S.C.Saxena, V Kumar, L M Waghmare)	Journal of Electrical India, Vol.38, No.2, Jan.1998, pp9-22.	1998
6.	Institute-Industry Interaction for Human Resource Development (C.B. Deshpande, B. M. Patre, L. M. Waghmare)	Journal of Institution of Engineers (INDIA), Vol.73, May, 1992	1992
7.	CAS - A Concept in Engineering Evaluation (L. M. Waghmare, S. T. Kolikar, B. M. Patre)	Journal of Engineering Education, Vol.04, No.4, April, 1991	1991

(c) **Publications in International Conferences: 55+**

Sr. No.	Title of the publication	Name of the International Conference	year
1.	Non-singular terminal sliding mode control for robust trajectory tracking control of an autonomous underwater vehicle (P. S. Londhe, D. D. Dhadekar, B. M. Patre and L. M. Waghmare)	Indian Control Conference (ICC), IIT Guwahati, 2017, pp. 443-449, India	2017
2.	Robust Nonlinear Task Space Position Tracking Control of an Autonomous Underwater Vehicle-Manipulator System (Pandurang S Londhe, M. Santhakumar, Balasaheb M Patre, Laxman M Waghmare)	IEEE International Conference on Advanced Intelligent Mechatronics (AIM), July 7-11, 2015, pp. 1713-1718, Busan, South Korea	2015
3.	Single Input Fuzzy Logic Controller tuning for Steering Control of Autonomous Underwater Vehicle: Genetic Algorithm Approach (Kunal N. Tiwari, L. M. Waghmare, P. Krishnankutty)	Indian Control Conference (ICC) held at Indian Institute of Technology Hyderabad during January 4-6, 2016. Hyderabad, India, PP. 335-340	2016
4.	Enhanced dynamic fuzzy sliding mode controller for autonomous underwater vehicles (Lakhekar G. V., Waghmare L. M., Londhe P. S.)	International Symposium on Underwater Technology, held at National Institute of Ocean Technology (NIOT), Chennai, pp 1-7, 23-25 Feb. 2015	2015
5.	Energy efficiency and latency improving protocol for wireless sensor networks (Chaudhary D. D., Waghmare L. M)	International Conference on Advances in Computing, Communications and Informatics (ICACCI), held at Mysore on 22-23 Sept. 2013, pp.1303-1308	2013
6.	Model reference learning approach with predictive PI for higher order systems (Shinde D. U, Hamde S. T., Waghmare L. M. )	International Journal Conference on Data Communication and Instrumentation Engineering (IJCDCIE-14), Penang, Malaysia, pp.60-64, January 2014	2014
7.	Control of integrating processes with dead time using PID controllers with disturbance observer based smith predictor (Kadam S. D., Waghmare L. M.)	IEEE International Conference on Control Applications (CCA), held during, 28-30 Aug. 2013 at Hyderabad, pp: 1265 – 1269	2013
8.	Quality of Service Analysis in Wireless Sensor Network by Controlling End-to-End Delay (Chaudhary D.D., L. M. Waghmare)	7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), held at Singapore during 18 - 20 July 2012, pp.703 – 708	2012
9.	Comparison and Performance Evaluation of Wireless Sensor Network with different Routing Protocols (Chaudhary D. D., Pranav Pawar ,	International Conference on Information and Electronics Engineering IPCSIT. Print ISBN	2011

	L. M. Waghmare)	978-1- 84626 vol.6 (May 2011) IACSIT Press, Singapore.	
10.	Impact of Power System Harmonics on Insulation Failure of Distribution Transformer and its Remedial Measures (Deokar S. A., Waghmare L. M.)	Electronics Computer Technology (ICECT), 2011 3rd International Conference , held at Kanyakumari during 8-10 April, 2011, Vol.3, PP.136-140	2011
11.	PCA performance enhancement using SVD, FLD and RBF Neural Networks (Jondhale K. C, Waghmare L. M.)	3 <sup>rd</sup> IEEE International conference on computer and Electrical engineering (ICCEE2010), held on 16-18 Nov 2010, Chengdu, China	2010
12.	Comparative analysis of Face recognition techniques with illumination variation (Jondhale K. C, Waghmare L. M.)	Joint 9 <sup>th</sup> World Congress on Computational Mechanics and 4 <sup>th</sup> Asian Pacific Congress on Computational Mechanics, (WCCM/APCOM), 19-23 July 2010, Sydney, Australia	2010
13.	Design of PID Controllers for Higher Order Systems (Malwatkar G. M., Waghmare L. M.)	UKACC International Conference on CONTROL-2010 held during 7-10 September-2010 at Coventry University, Coventry (UK)	2010
14.	Design of Decentralized Controllers for SISO and MIMO Processes (Lengare M. J., Chile R. H., Waghmare L. M.)	International Conference on Advances in Recent Technologies in Communication and Computing, Kottayam , 15-16 Oct. 2010.	2010
15.	Voltage flicker assessment of Induction motors used in integrated water pumping station (Deokar S. A., Waghmare L. M., Jadhav G. N.)	IEEE international conference,(PEDES-2010) on “Power Electronics, Drives and Energy Systems” during 20-23 Dec-2010, at IIT- New Delhi.	2010
16.	Feature Extraction and Analysis of Multi-lead Electrocardiograms (Channappa Bhyri, Hamde S. T., Waghmare L. M.)	International Conference on Biomedical Engineering and Assistive Technologies, Dr. B. R. Ambedkar NIT, Jalandhar (Punjab), December 2010	2010
17.	Input scaling factors based fuzzy adaptive controller (Patil N. J., Chile R. H. and Waghmare L. M.)	International conference on Advances in Energy Conversion Technologies, Manipal, India, 17-20 January 2010	2010
18.	Hybrid Model Reference Adaptive Fuzzy Controller (Patil, N. J., Rajan H. Chile, and Laxman M. Waghmare)	2 <sup>nd</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET-09) organised by G.H. Raisoni College of Engineering, Nagpur, 16-18, December 2009	2009
19.	A novel approach to model reference adaptive fuzzy controller using output scaling factor (Patil N. J., Chile R. H, Waghmare L. M.)	International conference on Fuzzy Systems, Ankara, Turkey, 1-2 October 2009	2009

20.	MC-PID and Predictive controller Design for a shell and tube heat exchanger (Kokate R. D, Waghmare L. M.)	2 <sup>nd</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET-09) organized by G.H. Raisoni College of Engineering, Nagpur, 16-18, December 2009	2009
21.	Research and application of new Dynamic Matrix control based on state feedback theory for heat exchanger control (Kokate R. D, Waghmare L. M.)	2 <sup>nd</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET-09) organised by G.H. Raisoni College of Engineering, Nagpur, 16-18, December 2009	2009
22.	Power System Switching Transients Analysis Using Multiresolution Signal Decomposition (Deokar S. A., Waghmare L. M., Takale M. D.)	International conference on "Control, Automation, Communication and Energy Conservation -2009, (INCACEC- 2009), during 4-6 June-2009 at Kongu Engineering College, Perundurai, Tamilnadu	2009
23.	Application of Wavelet based transformation in power Quality Analysis (Deokar S. A., L. M. Waghmare, M.D.Takale)	2 <sup>nd</sup> International Conference on Computer and Electrical Engineering-ICCEE-2009 held at Dubai, UAE during December 28-30, 2009	2009
24.	Design of model reference adaptive fuzzy controller for green house process (Patil N. J., Chile R. H., Waghmare L. M.)	International Conference on Systemics, Cybernetics and Informatics, Hyderabad, India, 7-10 January 2009.	2009
25.	Design of controllers for delay time processes with desired closed-loop response specifications (Malwatkar G. M., Waghmare L. M.)	IEEE Indicon 2009 Gandinager, India, 18-20 December 2009	2009
26.	PID Controllers Tuning for Improved Performance of Unstable Processes (Malwatkar G. M., Bhosale P. T., Nikam S. D., Waghmare L. M.)	IEEE International Conference on Advances in Computing, Control & Telecommunication Technologies (ACT'09), 28-29 Dec.2009, Trivandrum, Kerala, India	2009
27.	Design of Centralized PI/PID Controller: Interaction Measure Approach (Malwatkar G. M., Khandekar A. A., Asutkar V. G., Waghmare L. M.)	IEEE ICIIS 2008, Kharagpur, India, 8-10 December 2008	2008
28.	Designing of PID Controller Using Genetic Algorithm (Lengare M. J. , Bhavesh Parmar, R. H. Chile, L. M. Waghmare)	International Conference on Sensors, Signal Processing, Communication, Control and Instrumentation, Vishwakarma Institute of Technplogy, Pune, Jan. - 2008, PP.135-139	2008
29.	Design and development of passive filter for a modern Engineering College Laboratory (Deokar S. A., Waghmare L. M., Takale M. D.)	CGEN-2008, International Conference on Co-generation, organized by Institution of Engineers (India) , Nagpur Local Centre, Maharashtra during 9-10 February 2008, pp. 147-150	2008
30.	Sliding Mode Control of DC Drives (Panchade V. M., L. M. Waghmare, B. M. Patre, P. P. Bhogle)	IEEE International Conference on Mechatronics and Automation August 5-8, 2007, Harbin, China, pp.1577-1580	2007

31.	Neuro Fuzzy Temperature Controller (Bhogle P. P., Patre B. M., Waghmare L. M., Panchade V. M.)	IEEE International Conference on Mechatronics and Automation August 5-8, 2007, Harbin, China, pp.3344-3348.	2007
32.	ECG Filtering and R-Peak Detection Using Wavelet Transform (Channppa Bhyri, Kalpana.V, S.T.Hamde and L.M.Waghmare)	1 <sup>st</sup> International Conference on Information Processing, UVCE Bangalore University, Bangalore, August 10- 12, 2007, India, pp. 341-346	2007
33.	ECG filtering and R-peak detection using wavelet transform (Channappa Bhyri, Kalpana.V, Hamde S. T., Waghmare L. M.)	1 <sup>st</sup> International Conference on Information Processing, UVCE Bangalore University, Bangalore, August 10-12, 2007, pp. 341-346.	2007
34.	Neural Network Weight Initialization (Waghmare L. M., Nikhil N. Bidwai, Bhogle P. P.)	IEEE International Conference on Mechatronics and Automation August 5-8, 2007, Harbin, China, pp.679-681	2007
35.	Neural Network Weight Initialization (Waghmare L. M., Nikhil N. Bidwai, Bhogle P. P.)	IEEE International Conference on Mechatronics and Automation August 5-8, 2007, Harbin, China, pp.679-681	2007
36.	Implementation of Model Reference Fuzzy Adaptive Controller (Waghmare L. M. , Chile R.H., and Patil Nitin)	IET International Conference on Information and Communication Technology in Electrical Sciences (IET INDIA ICTES2007) organized by Dr. M.G.R. University, Chennai, India from Dec.20-22,2007.	2007
37.	Industrial Temperature Control using an AFLC (Patil, N. J., Chile R. H.and Waghmare L. M.)	1 <sup>st</sup> International Conference on Industrial Informatics (CICINDIN-2007) held at Mexico City, Mexico during Nov. 5 - 9, 2007	2007
38.	Iris data acquisition using Matlab (Narote S. P., Narote A. S., Waghmar L. M.)	International Conference on control, Automation, Communication and Energy Conservation, Erode, India during Dec. 2008, pp.159-163.	2008
39.	Waghmare L. M.An Iris Recognition Based On Dual Tree Complex Wavelet Transform (Narote A. S., Narote S. P., Kokare M. B.,)	IEEE International Conference TENCON 2007, Taiwan during Oct.30 - Nov.02, 2007	2007
40.	Robust Iris Feature Extraction Using Dual Tree Complex Wavelet Transform (Narote A. S., Narote S. P., Kokare M. B., Waghmare L. M.)	IEEE International Conference on Signal Processing and Communications held at Dubai, United Arab Emirates, Dubai, during 24-27 November, 2007	2007
41.	Improving PID Controller by Genetic	International Conference on Emerging Techniques in Computing, Electronics,	2008

	Algorithm (Chile R. H., Waghmare L. M., Lengare M. J.)	Embedded System and VLSI Design, Pad. Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar, M.S. March-2008	
42.	A Genetically Tuned Optimal PID Controller (Chile R. H., Waghmare L. M., Lengare M. J.)	1 <sup>st</sup> International Conference on – Emerging Technologies and Applications in Engineering, Technology and Sciences, Saurashtra University, Rajkot, Gujrat, Jan. - 2008, Vol - II, pp. 1521 – 1524	2008
43.	Reactive Navigation of Autonomous Vehicle using Neuro-Fuzzy Controller (Waghmare L. M., Pavan Tallapragada, Bidwai N. N.)	International Conference on Industrial Technology (ICIT 2006) held at Mumbai, India during 15-17, December 2006, pp.2681-2685.	2006
44.	Polygonal Approximation of 2-D Binary Images (Seema Jadhav, Balasaheb Tarle, Waghmare L. M.)	4 <sup>th</sup> International Conference on Information Technology: New Generations, ITNG '07, April 2-4 2007, Las Vegas, Nevada, USA	2007
45.	An adaptive fuzzy logic control system for industrial temperature regulation (Patil N. J., Chile R. H. and Waghmare L. M.)	International conference on Informatics in Control, Automation and Robotics, Angers, France, 4-7 May 2007	2007
46.	An Automated Iris Image Localization in Eye Images used for Personal Identification (Waghmare L. M., Narote S. P., Narote A. S.)	International Conference on “ADCOM 2006” held at NIT Surtkal during Dec. 20-24, 2006, pp.250-253 (Recipient of best paper award).	2006
47.	Biometric Personal Identification Using IRIS (Waghmare L. M., Narote S. P., Narote A. S.)	International Conference on Systemics, Cybernetics and Informatics, ICSCI – 2006, Pentagram Research Centre - Hyderabad, pp. 679 - 682, Jan. 2006	2006
48.	Iris based recognition system using daubechies wavelet transform (Waghmare L. M., Narote S. P., Narote A. S.)	IEEE International Conference on “ICSIP 2006” held at B.V. Bhoomaraddi College of Engineering and Technology Hubli, Karnataka during Dec. 7-9, 2006, pp.849-853.	2006
49.	IRIS Recognition Technology (Waghmare L. M., Narote S. P., Narote A. S.)	International Conference on Cognition, and Recognition, ICCR – 2005, Mysore, Dec 2005	2005
50.	Inferential MRAC neural controller for temperature control of CST Process (Waghmare L. M., Saxena S. C., Vinod Kumar)	24 <sup>th</sup> IASTED International conference on Modeling, Identification, and control (MIC 2005) held during Feb. 16-18, 2005, at Innsbruck, Austria	2005
51.	Recursive identification methods and effects of variation of initial values and	International conference on Instrumentation organized by the	2004



	forgetting factor on the identified estimates (Waghmare L. M., Metkar Abhiraj, Mateenuddin Quazi)	Instrument Society of India and Pune Institute of Engineering and Technology, Pune during December 19-21, 2004.	
52.	Eye identification for face recognition with neural networks (Waghmare L. M., Seema Jadhav, Patil N. S.)	International conference on Instrumentation organized by the Instrument Society of India and Pune Institute of Engineering and Technology, Pune during Dec.19-21, 2004	2004
53.	Stability aspects of neural controllers (Saxena S.C., Vinod Kumar, Waghmare L.M.)	International conference (CERA), held at Indian Institute of Technology, Roorkee during Feb.2002.	2002
54.	Fiber optics sensors and instrumentation (Mane A.P., Sudavan K. K., Waghmare L. M.)	International conference on Broad band optical fiber communication technology, (BBOFCT-2001), North Maharashtra University, Jalgaon, during December 5-7, 2001 pp. 419 – 425	2001
55.	Microprocessor Based Speed Control of DC motor using transistorized chopper with PWM scheme (Deshpande C.B., Asutkar V.G., Waghmare L.M.)	International Conference held at PSG college of Engineering, Coimbtore, 1994	1994
56.	Present Status of Continuing Engineering Education In India and Challenges Ahead (Patre B. M., Waghmare L.M., Jamkar R.G.)	5 <sup>th</sup> World Conference on CEE held at Helsinki, Finland during July, 1992	1992
57.	Role of Technical Institutions in Promoting Entrepreneurship Among the Students (Deshpande C. B., Patre B.M., Waghmare L.M.)	World Conference on Entrepreneurship and Innovative change held at Mandarin, Singapore during July 3-5, 1991.	1991

**10. Details of experience of working with international bodies or international exposure through participation in workshops, seminars or conferences held outside the country:**

**(A) Working with International Bodies:**

<b>Sr. No.</b>	<b>Name of the International body</b>	<b>Nature of experience</b>
1.	City College, University New York (July 08 -July 23, 2015)	To sign MoU for collaborative research and student, faculty exchange program
2.	Oakland University, Michigan and (July 08 -July 23, 2015)	To sign MoU for collaborative research and student, faculty exchange program
3.	San Jose State University, California (July 08 -July 23, 2015)	To sign MoU for collaborative research and student, faculty exchange program
4.	Universiti Teknologi PETRONAS (UTP), Malaysia (August 23-28, 2013).	To sign MoU for collaborative research in the field of signal and image processing, student and faculty exchange program

**(B) International exposure through participation in workshops, seminars or conferences held outside the country:**

Sr. No.	Title of Workshop/Seminar/Conference	Month & Year	Place
1.	Participated in Temasek Foundation - National University Singapore program for Leadership in University Management	Sept. 23 - 25, 2014	NUS, Singapore
2.	Attended workshop on “Statistical Inference and Practice”	Aug. 23 - 24, 2013	Universiti Teknologi PETRONAS (UTP), Malasiya
3.	Participated in Educon-12, ‘The 8th International conference of Vice-Chancellors and policy makers of India’	Sept.28 to Oct.02, 2012	Shanghai, China.
4.	Presented research in 4th IASTED International Conference on, “Modeling, Identification, and control (MIC 2005)”	Feb. 16 - 18, 2005	Innsburg, Austria

**(C) Networking and Collaborative wok**

1.	<b>USA :</b> Attended and addressed the alumni meets held at New Jersey (East Coast) and San Jose (West Coast) along with a team of faculty members during July 08 -July 23, 2015
2.	<b>Dubai:</b> (a) Attended and addressed the alumni meet held at Dubai on May 06, 2016. (b) Visited the institutes namely the Petroleum Institute, Abu Dhabi, United Arab Emirates and the Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emirates to explore the academic collaborative activities.

**(D) Experience of organizing events such as workshops, seminars, conference at an international level within the country in the field of higher education**

Sr. No.	Title of workshop/ seminar/ conference	Month & Year	Place	Role assigned in organizing the event
1.	International conference on “Technological Advances in Climate- Smart Agriculture and Sustainability (TACSAS 2017)”	Jan. 16-18, 2017	SGGS Institute of Engineering and Technology, Nanded	Patrons
2.	International Conference on Signal and Information Processing (IConSIP-2016)	Oct. 06-08, 2016	SGGS Institute of Engineering and Technology, Nanded	Patrons
3.	International conference on “Advanced & Agile Manufacturing and Agile Software Development 2016”	Oct. 06-08, 2016	SGGS Institute of Engineering and Technology, Nanded	Patrons
4.	International Conference on “Communication, Computing and Visualization (ICCCV-2017)”	Feb.24-25, 2017	Thakur College of Engineering & Technology, Mumbai, India	Member, National Advisory Committee

5.	International Conference on “Innovations in Engineering and Technology (CIET-2016)”	Dec.30-31, 2016	SKN Sinhgad College of Engineering, Korti, Pandharpur in association with Solapur University	Member, Advisory Committee
6.	Third International Conference on “Transformations in Engineering Education (ICTIEE 2016)”	Jan. 9-12, 2016	College of Engineering, Pune	Member, Advisory Committee
7.	IEEE - International Conference “on Information processing (ICIP 2015)”	Dec. 16-19, 2015	Department of Electronics Engineering, Vishwakarma Institute of Technology, Pune	Member, Advisory Committee
8.	Second International Conference on Computational Intelligence Applications ICCIA 2011	Feb. 10-12 2011	Sandip Foundation's Sandip Institute of Technology and Research Centre Nashik	Member, Advisory Committee

### 11. Experience of working on the Statutory Authorities/forums of a university:

- a) Member, Senate, of SRT Marathwada University, Nanded
- b) Member, Management Council of SRT Marathwada University, Nanded (Election/Nomination/2018-2019/219, dated 31/07/2019 for a period of 31/07/2019 to 31/07/2022)
- c) Member, Academic Council of SRT Marathwada University, Nanded
- d) Member, Standing Committee of SRT Marathwada University, Nanded (Election/Nomination/2019-2020/426, dated 13/11/2019, for a period of 31/07/2019 to 31/08/2022)
- e) Member Secretary, Board of Information Technology of SRT Marathwada University, Nanded
- f) Member, Board of Deans of SRT Marathwada University, Nanded
- g) Member, Grievances Committee, SRT Marathwada University, Nanded (Election/Nomination/2018-2019/220, dated 31/07/2019 for a period of 31/07/2019 to 31/07/2022)
- h) Member, Board of Studies, Electronics and Communication Engineering at MIT school of Engineering, MIT ADT University, Pune (Since 23/02/2018 to 22/02/2021)
- i) Nomination as member of advisory board of centre for agro-bio innovation and incubation (CABII), SRTMU, Nanded (08.01.2019 to Oct. 2019)
- j) Nominated by VC of BATU, Loneri on Faculty in Engineering and Technology as expert member (DBATU/Reg/Faculty/Engg. & Tech./2018/350 dated 30th August 2018).
- k) Nominated on Academic Council of Government College of Engineering, Jalgaon (GCOEJ/AC/2018/660 dated 28/08/2018)
- l) Member, Board of National and International Linkages, of Swami Ramanand Teerth Marathwada University (SRTMU) Nanded (Ref. No.: Election/Nomination/2017-18/57 dated 05/10.04.2018.
- m) Dean, Faculty of Engineering and Technology, of Swami Ramanand Teerth Marathwada University (SRTMU) Nanded (Two years) (2012-13 to 2013-14)
- n) Member, Board of Studies of Instrumentation Engineering at University of Pune, Pune (CB/Engg/1520 dated 03.05.2011)
- o) Member, Board of Studies (BoS), Instrumentation Engineering of Dr. Babasahab Ambedkar Marathwada University, Aurangabad (Ref.: Acad/BoS/Instrumentation/ 2000 – 2001/35696-704 dated 25/30.01.2001)
- p) Member, Faculty of Engineering and Technology of Dr. Babasahab Ambedkar Marathwada University, Aurangabad (Unisec/ELN/BoS/2001/40036-132, dated 23/27.02.2001).
- q) Member, Board of Studies (BoS) in the subject of Instrumentation Engineering of SRTMU, Nanded (Ref.: Acad/1995-96/3833 dated 17/20 May 1995)

- r) Member, Faculty of Engineering and Technology, of Swami Ramanand Teerth Marathwada University (SRTMU) Nanded (Ref.: Acad/BoS/95-96/5249-5275 dated June 19, 1995)

## 12. Short Term Training program attended (One Week/Two Week/Three week etc)

Sr. No.	Name of the Course/Workshop/event	Name of Organising Institute	Date	Academic Year
<b>One Week Duration</b>				
1.	Probability and Statistics (AICTE sponsored QIP short term course)	SGGS IET, Nanded	March 15 - 20, 2019	2018-19
2.	Teaching with MATLAB and Simulink (STTP)	Organized by IUCEE, at Infosys Campus, Mysore	June 22 - 26, 2009	2008-09
3.	World bank procurement procedure (STTP)	N I F M, Faridabad	March 08 -13, 2004	2003-04
4.	World bank procurement procedure (STTP)	N I F M, Faridabad	July 21-26, 2003	2003-04
5.	Biomedical Instrumentation (STTP)	University of Roorkee, Roorkee	March 08 -12, 1999	1999-2000
6.	Artificial Neural Networks & Their Applications (STTP)	Indian Institute of Technology, Mumbai	Jan. 24 -28, 1994	1993-94
7.	Microcontroller Based System Design (STTP)	Delhi College of Engineering, Delhi	Jan. 17 -21, 1994	1993-94
8.	Process control and DCS Overview (STTP)	Tata Honeywell Ltd, Pune and SGGS CE&T, Nanded	April 26 -30, 1993	1992-93
9.	Induction Training for Teachers (STTP)	SGGS IET, Nanded	Feb. 25 -28, 1993	1992-93
10.	Robotic System Design and Applications (STTP)	Indian Institute of Technology (IIT), Kharagpur	Aug. 02-06, 1989	1989-90
11.	Action Research in Technical Education (STTP)	NITTTTR, Bhopal (Pune Centre)	Oct. 20-24, 2008	2008-09
<b>Two/Three Week Duration</b>				
1.	Training on Industrial Automation (STTP)	Prolific Systems and Technologies Pvt. Ltd, Pune	June 18 - 30, 2007	2006-07
2.	Advanced Digital Signal Processing (STTP)	Government College of Engineering, Pune	June 24 -July 05, 2004	2004-05
3.	Mobilization of financial resources in technical institute (STTP)	MGM College of Engineering, Nanded	Jan. 07 -18, 2002	2001-02

4.	Java Programming (core and advanced) (STTP)	SGGS IET, Nanded	Jan.10 – March 05, 2001	2000-01
5.	Digital Signal and Image Processing (STTP)	SGGS IET, Nanded	June 05 -17, 2000	1999-2000
6.	Recent Trends in Digital Communications (STTP)	National Institute of Engineering, Mysore	Sept.30 – Oct. 14, 1998	1988-89
7.	Microprocessors in Instrumentation (STTP)	SGGS IET, Nanded	June 17-28, 1996	1995-96
8.	Recent Trends in Instrumentation (STTP)	University of Roorkee, Roorkee	Nov. 22- Dec. 09, 1994	1993-94
9.	Microprocessor Instrumentation (STTP)	MMM College of Engineering, Gorakhpur	Dec. 16 -30, 1988	1988-89
10.	EHV AC/DC Transmission(STTP)	MACT (Regional College), Bhopal	June 15 -28, 1987	1986-87
<b>One/Two/Three Day Workshop/event</b>				
1.	World University Rankings, Ratings and other strategies	MIT Arts, Design & Technology University, Pune	March 09, 2017	2016-17
2.	MIS: Web- based management information system for TEQIP Phase –II	Institute of Chemical Technology (ICT), Mumbai	April 18-19, 2012	2011-12
3.	Opportunities in DRDO research projects	Walchand College of Engineering, Sangli	July 02, 2011	2011-12
4.	SCILAB and its applications to global optimization and fractional differential equations	SGGSIET, Nanded in collaboration with IIT, Bombay	April 23-25, 2010	2009-10
5.	Recent trends in Instrumentation and Control	SGGS IET, Nanded	Jan. 27-29, 2006	2005-06
6.	Management capacity and vision development	Welingkar Institute of Management Development and Research, Mumbai	Jan. 19 -21, 2006	2005-06
7.	Strategic Planning for institutional development	University of Roorkee, Roorkee	Sept. 05 -07, 1996	1996-97
8.	Creativity, Design Process and Teaching	University of Roorkee, Roorkee	Sept. 06 -09, 1997	1997-98

### 13. Master Thesis Guided (M.E. / M. Tech.): Awarded: 44

Sr. No.	Name of the Student	Title of the thesis	Status	Year
1.	Nitin J. Ghumnar (2016MIN016)	Reverse engineering and validation of Delta V DCS (Work carried out at Zenith Technologies, Pune)	Awarded	2018

2.	Mrs. Sneha A. Patil (20016MIN012)	Bone Tumar Segmentation and Comparison with different segmentation methods (Work done at IIT, Delhi)	Awarded	2018
3.	Lende Rahul B (2013MIN015)	Design of intelligent controller for motion control of autonomous underwater vehicle	Awarded	2015
4.	Supriya A.Somwanshi (2013MIN017)	Management of HVAC system in residential building using bacnet protocol	Awarded	2015
5.	Ashish S. Aundhekar (2012MIN016)	Automation of Continuous Stirred Tank Reactor using Yokogawa DCS	Awarded	2014
6.	Rupesh Nimbolkar (2012MIN007)	Investigations of some control strategies for the depth control of underwater vehicle	Awarded	2014
7.	Sujay Kadam (2011MIN004)	Design of controllers for integrating processes	Awarded	2013
8.	Shantnu Baradkar (2011MIN001)	Design of controllers for time delay systems	Awarded	2013
9.	Ashish S. Gowande (2010MIN016)	Plasma position control in SST- Totamak	Awarded	2012
10.	Shakti Shiledar (2009MIN012)	Tuning of PID controller using MOMI (Magnitude Optimum Multiple Integration) method	Awarded	2012
11.	Suhas P. Kurane (2009MIN007)	Boiler automation using PLC and SCADA	Awarded	2011
12.	Abhinav L. Gurram	Intelligent control for steering model of autonomous under water vehicle	Awarded	2010
13.	Seema S. Swami (2007MIN007)	Implementation of model based controller for isothermal CSTR	Awarded	2009
14.	Amit S. Shinde (2006MIN008)	Automation of boiler management system	Awarded	2008
15.	V. M. Panchade	Sliding mode control of DC drives	Awarded	2007
16.	Shrikant T. Saswade	Automation (Project at Analogic Automation and Power Systems, Pune)	Awarded	2007
17.	Nikhil N. Bidwai (2007MIN007)	Neural networks based direct and model predictive controllers	Awarded	2007
18.	N. N. Ghuge	Image enhancement using spatial domain technique and fuzzy identification factor	Awarded	2006
19.	B. H. Chavan	Controllers schemes for processes with time delay	Awarded	2006
20.	Pavan Kumar	Identification of time varying auto regressive system using wavelet transform	Awarded	2006
21.	Ms. K. V. Bhise	Microprocessor based integrated thyristor controller (1992)	Awarded	2005
22.	A. N. Metkar	Comparative Study of System Identification Techniques	Awarded	2004
23.	B. R. Vikram	An adaptive neuro-fuzzy system for automatic image segmentation and edge detection	Awarded	2004
24.	D. S. Patil	Development of PLC-SCADA for starch plant	Awarded	2003
25.	V. V. Kulkarni	Design and simulation of 64-point FFT processor	Awarded	2003

		using VHDL		
26.	J. S. Thakur	Adaptive Resonance Theory for group technology and image processing	Awarded	2003
27.	N. S. Pathak	Computer aided design of flow transducers	Awarded	2003
28.	S. N. Mulgir	Optical telemetry for multi-parameter measurement using CPLD	Awarded	2002
29.	S. N. Rathod	Fuzzy logic based controller for servo motor	Awarded	2002
30.	S. D. Patil	System identification using GA approach	Awarded	2002
31.	B. B. Sul	Time domain analysis and tuning of PID controllers	Awarded	2002
32.	B. A. Patil	Computer aided design of primary sensing element for pressure measurement	Awarded	2002
33.	A. P. Mane	Microprocessor based design and implementation of three phase thyristor dual converter for speed control of DC shunt motor	Awarded	2001
34.	M. C. Deshpande	Design and Development of three phases IGBT based PWM Inverter	Awarded	1996
35.	A. Sreedhar Reddy	Microcontroller (80C537) based electronic trip relay for ACB, This work was carried out and certified at CROMPTON GREAVES Ltd. (R&D), Nashik)	Awarded	1996
36.	L. Ravikumar	Fuzzy logic controller for industrial Application - Case Study on steam turbine for steam electronic speed governor (SESG) (CROMPTON GrEAVES Ltd., Nashik)	Awarded	1995
37.	D. V. Thombare	Fuzzy Logic Controller for AC drives	Awarded	1995
38.	S. D. Pawar	Digitally Controlled MOSFET Bridge Inverter	Awarded	1995
39.	K. Ravinder	Microprocessor Based Temperature Scanner, (This work was carried out and certified at BHEL, Hyderabad)	Awarded	1995
40.	R. N. Khole	Microprocessor based DC drives Control	Awarded	1993
41.	S. G. Ghungrad	Automation of Design, Drafting and Cutting of CAM on CNC M/C	Awarded	1993
42.	M. R. Bongulwar	Computer Aided Design Package for Control System Design	Awarded	1993
43.	Ms. M. V. Lakha	P.C. Based Concentration Monitoring and Analysis	Awarded	1992
44.	Ms. U. R. Gaikwad	Microprocessor Based Torque Measurement of D.C. shunts motor	Awarded	1992

**Prof. L. M. Waghmare**