

Bio-data of Dr. L. M. Waghmare

1. General Information:

- Full Name : Dr. Laxman Madhavrao Waghmare
- Email id : lmwaghmare@yahoo.com,
lmwaghmare1963@gmail.com
- Mobile No. : 09822663185
- Date of Birth : 02/05/1963
- Permanent address : 112, "SMRUTI", Ashirwad Nagar,
Taroda (Bk) Road, Nanded -431605



2. Present Post:

Principal,
School of Engineering, Matoshri Pratishthan Group of Institutions,
Khupsarwadi, Nanded, Maharashtra - 431606

3. Qualification:

- Ph.D. (2001) from Indian Institute of Engineering (IIT), Roorkee
- M.E. (Instrumentation Engineering) (1990) from Marathwada University, Aurangabad, (SGGS Institute of Engineering and Technology, Nanded) in first division with distinction (71.00%).
- B.E. (Instrumentation Engineering) (1986) from Marathwada University, Aurangabad, (SGGS Institute of Engineering and Technology, Nanded) in first division (64.80%).

4. Awards/reorganization:

- K S Krishnan Memorial Award - Instituted by Institution of Electronics & Telecommunication Engineering (IETE), (2004) for the best system oriented research paper (published in the IETE Research Journal)
- Certificate of Excellent Performance is awarded by the Regional office of Director of Technical Education, Aurangabad (dated 07.11.2007)

5. Memberships in Professional Organizations/Societies/Bodies:

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

6. Experiences:

A. Teaching Experience in the field of Higher Education:

University / Institution*	Post	From	To	Total (in years and months)
SGGS Institute of Engineering and Technology, Nanded (Government Aided Autonomous Institute)	Professor	15/12/2001	31/05/2023	21 years & 05 months
	Assistant Professor	16/07/1993	14/12/2001	08 years & 05 months
	Lecturer	08/12/1986	15/07/1993	06 years & 07 months
Total Experience				36 years & 05 months

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

B. Details of administrative experience in the field of Higher Education :

Sr.	Post/Designation	University/ Institute	From	To	Total
1.	Director (Research and Development), Bandarsindri, Kishangarh, Distt.: Ajmer	Central University of Rajasthan, Bandarsindri, Kishangarh, Distt.: Ajmer	03.07.2023	Dec.2023	
2.	I/c Dean, Faculty of Science and Technology	SRT Marathwada University, Nanded	01.03.2023	31.05.2023	3 months
3.	Dean, Faculty of Science and Technology	SRT Marathwada University, Nanded	29.07.2019	28.02.2023	3 years & 6 months
4.	Director/Principal, (Government Aided Autonomous Institute)	SGGS Institute of Engineering & Technology, Nanded	21.06.2012	22.04.2018	5 years & 9 months
5.	Dean, Faculty of Engineering and Technology	SRT Marathwada University, Nanded	29.11.2012	29.07.2015	2 & ½ years
6.	Dean (Academics)	SGGS Institute of Engineering Technology, Nanded	07.10.2011	21.06.2012	8 & ½ months
7.	Dean (R&D)		01.03.2009	06.10.2011	2 & ½ years
8.	Head of the Department (Instrumentation Engineering)		07.07.2006	28.02.2009	2 & ½ years
9.	Chairman, Purchase Committee of the institute		14.02.2005	17.05.2012	7+ years
	Total Experience : @35 years				

In addition to above, I have worked as:

- Member Secretary, Board of Management (BoM) of the Institute
- Member, Board of Management of the Institute (Faculty Representative)
- President, SGGS Engineers Alumni Association
- Vice President, SGGS Engineers Alumni Association

7. Details of publications of research papers in peer-reviewed / referred international research journals and Books/Book Chapter:

A. Research publications in peer-reviewed / referred international research journals :

1. International Journals : 62
2. National Journals : 07
3. International Conferences : 55

(a) International Journals

Sr. No.	Title of the publication	Name of the international journal	Year
01.	Active disturbance rejection control based sinusoidal trajectory tracking for an upper limb robotic rehabilitation exoskeleton Sumit Aole, Irraivan Elamvazuthi, Laxman Waghmare, Balasaheb Patre, Tushar Bhaskarwar, Fabrice Meriaudeau, Steven Su	Applied Sciences, Volume 12, issue 3, PP. 1287, 22/01/2022	2022-23
02.	Improved active disturbance rejection control for trajectory tracking control of lower limb robotic rehabilitation exoskeleton S Aole, I Elamvazuthi, L Waghmare, B Patre, F Meriaudeau	Sensors 20 (13), 3681	2020-21
03.	Dynamic modeling and displacement control for differential flatness of quadrotor UAV slung-load system KR Roy, LM Waghmare, BM Patre	International Journal of Dynamics and Control 11 (2), 637-655	2022-23
05.	Robust self-organising fuzzy sliding mode-based path-following control for autonomous underwater vehicles GV Lakhekar, LM Waghmare	Journal of Marine Engineering & Technology 22 (3), 131-152	2023
06.	EffCDNet: Transfer learning with deep attention network for change detection in high spatial resolution satellite images, Parmeshwar S Patil, Raghunath S Holambe, Laxman M Waghmare	Digital Signal Processing, Volume 118, Pages 103 – 250, published by Academic Press	2020

07.	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 Access, Volume 8, 2020 109891-109904	2020
08.	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
09.	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
10.	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
11.	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
12.	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 (July 2017), PP. 1-13 (Elsevier)	2017
13.	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(1), pp. 13-28, Jan.2017	2017
14.	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

15.	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
16.	Uncertainty and disturbance estimator based sliding mode control of an autonomous underwater vehicle (PS Londhe, DD Dhadekar, BM Patre, LM Waghmare)	International Journal of Dynamics and Control, Vol. 5(4), 1122–1138 (2017) (Springer)	2017
17.	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
18.	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
19.	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
20.	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
21.	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
22.	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
23.	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
24.	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

25.	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
26.	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
27.	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
28.	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
29.	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
30.	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
31.	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
32.	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
33.	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
34.	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
35.	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

36.	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
37.	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
38.	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
39.	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
40.	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
41.	Adaptive Fuzzy Controller for Industrial Temperature Process	Journal of Research and Computing Science, vol. 16, pp. 63-69	2008
42.	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, pp.131-134.	2004
43.	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
44.	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
45.	Modeling and Statistical Analysis of Scenario Metric Parameters of Ad Hoc on Demand Distance Vector Routing Protocol (Sangita Kurundkar, Sangeeta Joshi, Laxman Waghmare)	Wireless Pers Communication (2017), 96:183-197	2017
46.	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

47.	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
48.	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
49.	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
50.	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
51.	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
52.	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
53.	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
54.	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
55.	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
56.	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

57.	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
58.	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
59.	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
60.	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
61.	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
62.	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
63.	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
64.	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
65.	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
66.	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
67.	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

68.	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
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(b) Details of books / book chapters published:

Sr. No.	Title of the book/ book chapters	Name of the publisher
Book		
1.	Iris Recognition Based New Technique for Person Identification (S P Narote, R S Holambe, L M Waghmare)	VDM Verlag Publisher UK, April 2011
Book Chapter		
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
4.	SDDSCNet: Siamese-Based Dilated Depthwise Separable Convolution Neural Network with Wavelet Fusion for Change Detection Parmeshwar S Patil, Prathmesh R Bhosale, Raghunath S Holambe, Laxman M Waghmare	Springer Nature Singapore: Machine Learning, Image Processing, Network Security and Data Sciences: Select Proceedings of 3rd International Conference on MIND – page no. 171-185, 2022-23

8. Experience to guide Ph.D. students under the faculty of Faculty of Engineering and Technology

Ph.D. Completed (Main Guide) : 17

Ph.D. Completed (Co-Guide) : 07

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

Sr. No.	Student	Thesis title	Status
1.	Girish Vithalrao Lakhekar	An Investigation of Adaptive Fuzzy Sliding Mode Control for Underwater Vehicles	2014-15 Awarded on 11.01.2019
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
3.	Dilip Damodar Choudhary	Delay Analysis in Wireless sensor networks	2007-08 to 2015-16 Awarded on 02-04-2016
4.	Dipali Uddhavrao Shinde	Developments In Model Predictive Controllers For Process Control Applications	2007-08 to 2015-16 Awarded on 05-03-2016
5.	Kailas Shankarrao Holkar	Investigation of Some Predictive control Strategies for Improved Process Performance	2007-08 to 2015-2016 Awarded on 07-12-2015
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
7.	Kalpna 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
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
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
10.	Sandipann P. Narote	Iris Recognition Based New Technique for Person Identification	2006-07 to 2010-11 Awarded on 13-07-2010
11.	Ms. Vanajaroselin	Enhancement of Person Identification Using Iris Patterns	Awarded on 30.11.2018
12.	Gajanan Madhavrao	Content Based Bio-Medical Image Retrieval System	Awarded on 18.12.2021

	Galshetwar		
14.	Usha Ramdas Kamble	Person Identification using Iris Recognition	Awarded on 02.07.2021
15.	Sangita Bapu Patil	Intelligent energy management strategies for renewable energy sources	Awarded
16.	Sumit Suhas Aole	Design of Development of control Techniques for Robotic Manipulators	Awarded
17.	Kumud Ranjan Roy	Intelligent Control Strategies For Unmanned Aerial Vehicles	Awarded

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

Sr. No.	Student	Thesis title	Period of Guideship
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
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
3.	Sangita Vishwas Kurundkar	Quality Of Service In Routing (joint guidance with Dr. S. M. Joshi)	Awarded on 25-02-2017
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
5.	Kalpana Kashappa Vanjerkhede	Study of Effect of Diabetes on ECG (joint guidance with Dr. S. T. Hamde)	Awarded on 22-08-2015
6.	Pandurang Shahaji Londhe	Some Studies on Control of Autonomous Underwater Vehicles (joint guidance with Dr. B. M. Patre)	Awarded on 28-04-2015
7.	Parmeshwar Shyamsundar Patil	Change Detection Analysis of Remote Sensed Images (joint guidance with Dr. R. S. Holambe)	Awarded

(c) 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	Awarded	2006

		time delay		
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 using VHDL	Awarded	2003
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	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

9. Details of major research projects executed:

Sr. No.	Title of the project	Project Value (Rs. in lakh)	Granting agency	Date of start	Date of Completion
1.	Design of Intelligent Controllers for Under Water Vehicles (Research project)	24.61	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

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

Sr. No.	Name of the Course/ Workshop/ event	Name of Organizing Institute	Date	Academic Year
Two/Three Week Duration				
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
One Week Duration				
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 2009	2008-09
3.	World bank procurement procedure (STTP)	N I F M, Faridabad	March 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	Indian Institute of Technology, Mumbai	Jan. 24 -28, 1994	1993-94
7.	Microcontroller Based System Design (STTP)	Delhi College 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)	NITTTR, Bhopal (Pune Centre)	Oct. 20-24, 2008	2008-09
One/Two/Three Day Workshop/event				
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

11. 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.

Sr. No.	Name of the International body	Nature of experience
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, 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.	USA : 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
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2.	Dubai: (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.
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12. Experience of organizing events such as workshops, seminars, conferences 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 -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

13. Experience of working on the Statutory Authorities / forums of a university such as Board of Studies, Academic Council, Management Council or Executive Council of Board of Management, Senate, etc.

1. Member, Senate, of SRT Marathwada University, Nanded
2. 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)
3. Member, Academic Council of SRT Marathwada University, Nanded
4. 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)
5. Member Secretary, Board of Information Technology of SRT Marathwada University, Nanded
6. Member, Board of Deans of SRT Marathwada University, Nanded
7. 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)
8. 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)
9. Nomination as member of advisory board of centre for agro-bio innovation and incubation (CABII), SRTMU, Nanded (08.01.2019 to Oct. 2019)
10. 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).
11. Nominated on Academic Council of Government College of Engineering, Jalgaon (GCOEJ/AC/2018/660 dated 28/08/2018)
12. 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).
13. Dean, Faculty of Engineering and Technology, of Swami Ramanand Teerth Marathwada University (SRTMU) Nanded (Two years) (2012-13 to 2013-14)
14. Member, Board of Studies of Instrumentation Engineering at University of Pune, Pune (CB/Engg/1520 dated 03.05.2011)
15. 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)
16. Member, Faculty of Engineering and Technology of Dr. Babasahab Ambedkar Marathwada University, Aurangabad (Unisec/ELN/BoS/2001/ 40036-132, dated 23/27.02.2001).
17. Member, Board of Studies (BoS) in the subject of Instrumentation Engineering of SRTMU, Nanded (Ref.: Acad/1995-96/3833 dated 17/20 May 1995)
18. 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)

14. Demonstrable experience of handling Quality issues, assessment and accreditation procedures, etc.

Sr. No.	Area	Institution	Duration	Achievements
1.	Quality issues			
a)	Academic Audit and Gap analysis: To assess academic performance and progress by the senior Professors from reputed institutes.	SGGSIET, Nanded	Once in a three year	Helps to design the curriculum and minimize identified gaps
b)	Research symposiums	SGGSIET, Nanded	In every semester of academic year since 2014-15	To nurture research attitude within the students and motivation for the quality research
c)	Revision of Curriculum: in consultation with Industry advisory panel and BoS.	SGGSIET, Nanded	As per the requirement	Establishment of better academic procedures for evaluation and updating the curriculum as per the need of industry
d)	Inviting adjunct faculty from industry and reputed institutes	SGGSIET, Nanded	During semester/ vacation	To teach beyond curriculum, support the regular teaching
e)	Courses (Credit) by faculty from international University	SGGSIET, Nanded	During semester/ vacation	Exposure to cutting edge technology and rich experience of learning
f)	Credit transfer Scheme	With other institutes	in third year of degree course	Opportunity to study and better learning experience at reputed institutes
g)	Facilities provided for QEEE/NPTEL/MOOCs	SGGSIET, Nanded	During semester	To provide access to best of the professors and to get rich experience of learning
h)	Continuous Assessment	SGGSIET, Nanded	During semester	To provide the timely feedback of performance of the students
i)	Orientation programs for slow learners: Specific courses organized	SGGSIET, Nanded	During semester/ vacation	To build confidence within slow learners

j)	Funding for patenting	SGGSIET, Nanded	As per the Need	Students and faculty filled patents
k)	Incentives for quality publications	SGGSIET, Nanded	On claim	Promote the research culture in the institute
l)	Modernization of laboratory	SGGSIET, Nanded	Continuous process	Removal of obsolesce and cater to the current need of current curriculum
m)	Promoting internship	At industry	vacation	Industrial exposure to the students and placement
n)	Creation of new laboratory and industry sponsored laboratory	SGGSIET, Nanded		It provides new and advanced practical environment to implement new ideas.
o)	Internship program arranged by the institute	SGGSIET, Nanded	In summer vacation	Students get the knowledge of recent trends and technology as per the requirement of industry.
2.	Assessment and accreditation procedures			
a)	Extension Autonomy to Institute	SGGSIET, Nanded	Academic year 2017-18	Committee appointed by UGC was very happy about the progress of institution and extended autonomy for next five years (2017-18 to 2022) for the third time.
b)	Accreditation of the UG/PG courses	SGGSIET, Nanded	2013-14, 2017-18	Accredited eligible UG and PG programs
3.	Any other issue (Please specify) : Members of NBA / AICTE/ DTE/UGC /University committees (For NBA accreditation of technical institutes and for the conferment of fresh autonomous status to the technical institutes)	At Various institutes	2007-18	Got exposure and insight of the Quality issues, assessment and accreditation procedures, etc.

15. Experience at the State or national or international level in handling youth development work such as organizing student-centric activities for their all-round development and for providing them rich campus life

Sr. No.	Nature of Activity/ Event	Institution	Duration (From ... to) and total period	Achievements
1.	National Technical Event: Pragyaa (2010)	SGGSIET-Nanded	Once in every academic year (Three-day event) in 2010	Helps to display their technical, extracurricular and managerial skills. It also creates social awareness among the students.
2.	State level Sport Event – Zenith	SGGSIET, Nanded	In every academic year	It gives a platform to show the sport talent amongst budding engineers and creates health awareness.
3.	National students conference on “Instrumentation and Control”: ICON -2007	SGGSIET, Nanded	February 17-18, 2007 In every academic year	Helps students to display their presentation skills and innovative concepts, idea etc
4.	R – Megeddon	SGGSIET, Nanded	Three Days in every academic year	The event has been designed to increase the stature of robotics in the state of Maharashtra and make the colleges strong enough to fight the national and international competitions of robotics.
5.	Summer internship program (National Level)	SGGSIET, Nanded	Two Months in summer vacation	To teach recent trends and technology as per the requirement of industry

16. Demonstrated experience in leadership

I have also significant exposure on administration front. I have worked as

At University Level:

- Dean (Science and Technology), Swami Ramanand Teerth Marathwada University, Nanded
- Dean (Faculty of Engineering and Technology), SRTMU, Nanded.

At institute level (Govt. Autonomous Institute):

- Vice Chancellor nominee on Board of Management (BoM) of SGGS IET, Nanded
- Director, SGGS IET, Nanded (Government Aided Autonomous Institute)
- Member Secretary, Board of Management (BoM) of SGGS IET, Nanded
- Member, Board of Management of the Institute (Faculty Representative)
- President of SGGS Engineers Alumni Association
- Vice President of SGGS Engineers Alumni Association
- Dean (Academics) at SGGS IET, Nanded
- Dean (R&D) at SGGS IET, Nanded
- Head of the Department of Instrumentation Engineering,

The leadership skills like:

- Exceptional ability to motivate a diverse group of stakeholders,
- Keen desire to further the mission and goals of the organization,
- Ability to think strategically and innovatively and maintain a broad perspective and
- Ability to lead by personal example with openness to new ideas and a consultative approach.

The implementation of these skills have been demonstrated by providing educational and academic leadership for excellence in teaching, learning, research, administration, strategic planning, it's implementation and monitoring through

- Faculty recruitment, Academic reforms, and continuous improvement in academics
- Infrastructure development: Building, Laboratories, Library, Internet facilities/sports facilities
- Promotion of entrepreneurial and start-up activities
- Networking with premier institution/ organization/ industry in India and abroad
- Interaction with Alumni and domain experts
- All round personality development and growth of students
- Capacity building of faculty through higher education, trainings etc.
- Support systems and overall ambience

Sr. No.	Brief description of nature of leadership activity and role played	Documented evidence of achievements in leadership
1.	Regular faculty recruitment drive	Appointment of regular faculty helped institute to take forward the academic reforms aggressively
2.	Started Professional and Industrial Development Allowance (PIDA) Scheme	Promotion to research culture among the institute faculty leading to increased enrolment of researchers under faculty beneficiaries.
3.	Capacity building of faculty	<ul style="list-style-type: none"> Facilitated the faculty to acquire the higher education i.e. Ph.D. Faculty training in the subject domain and Management Encouraged faculty to participate in the technical events held at various locations in country More number of faculty willing to take responsible positions
4.	International exposure to faculty	Encouraged faculty to participate in the international technical events held at outside country. Improved international visibility and recognition to the institute
5.	Training programs for academic staff	<ul style="list-style-type: none"> Need based training program arranged for academic and administrative staff Visits of academic staff to different laboratories in reputed institutes Quality of delivery improved Increase acceptability of students in industry
6.	Promoted Faculty and Students for filing Patents	15 Patents are filed by Faculty and students
7.	Execution of TEQIP project	<ul style="list-style-type: none"> Successfully completed the TEQIP –II Based on performance, institute selected for TEQIP-III Mentorship: Institute is selected as mentor for the College of Technology, Pantnagar, Uttarakhand under TEQIP-III twinning programme.
8.	QIP centre for Ph.D.	Received approval from AICTE for QIP center for Ph.D. in 2010-11.

9.	Enhanced Research program	<p>Increased the number of scholarship to full time research scholars.</p> <p>Scholarships are made available through :</p> <ul style="list-style-type: none"> • IRSS (Institute Full Time Scheme through institute fund), Quality improvement Program, Ministry of HRD, • TEQIP, • Center of Excellence, • Visvesvaraya Ph.D. Scheme of DEiT • National Doctoral Fellowship and • Maulana Azad National Fellowship and • Research projects from research funding agencies like NRB, BRNS, etc.
10.	Research Symposium once in every semester since 2014-15	<ul style="list-style-type: none"> • Near about 200+ research scholars participated in every research symposium. • It has helped in monitoring the progress of research scholars • Lead to good research publications
11.	Established Center of Excellence in Signal and Image Processing	Received grants of Rs. 5.0 crore for establishing the CoE under world bank project
12.	Industry Sponsored laboratory	<p>Established industry supported/sponsored laboratory namely</p> <ul style="list-style-type: none"> • E-PASS (Lab supported by Emerson Process Management, Mumbai), • Center for VLSI Design and Verification (Mentor Graphics, USA), • Process Instrumentation Laboratory by Endress and Hauser (India) Automation Instrumentation Pvt Ltd, Mumbai. • Sai Technologies Center (Supported by SAI Technology, USA)
13.	Started TIEC (Technological Innovation and entrepreneurship cell)	<ul style="list-style-type: none"> • To promote the entrepreneur, innovation skills among the students • To convert ideas, concept into prototype models to gain hands on experience • To arrange the skill development program for students of our institute and nearby institute

14.	International Collaborations	<p>Signed MoUs with :</p> <ul style="list-style-type: none"> • City College, University New York , • Oakland University, Michigan, • San Jose State University, California, • Universiti Teknologi PETRONAS (UTP) <p>Activities carried out:</p> <ul style="list-style-type: none"> • Credit courses by the Professor's from universities outside country, • collaborative research (One year/ six months research scholars/ PG students at international university), Internship, • Joint conferences, • expert talks etc
15.	Organised three international Conferences/ four national conferences	<p>International Conferences:</p> <ul style="list-style-type: none"> • International Conference on "Signal and Information Processing (IConSIP-2016)" • International conference on "Advanced & Agile Manufacturing and Agile Software Development 2016" • International conference on "Technological Advances in Climate- Smart Agriculture and Sustainability (TACSAS 2017)" <p>Interaction of Experts from international university, institutes of repute and industry, and research scholars. Sharing of knowledge on recent trends in technology development and related issues.</p>
16.	Joint International Event in IEEE-ISBI 2018 @ Washington DC, USA during 4th- 7th April 2018	<p>in collaboration with five international Collaborators,</p> <ul style="list-style-type: none"> • UTP, Malaysia, • University of Texas, USA • University of Edinburg, French, • National Research Lab INSERM, France, University of Bourgogne <p>Accepted Dataset of Diabetic Retinopathy at international level as a standard dataset.</p>
17.	Strengthening of alumni Network	<ul style="list-style-type: none"> • Alumni chapter and alumni meet at various locations in the country. • Alumni meets abroad (USA and Dubai) • Formation of alumni chapter outside country, • Installed different scholarships and awards from alumni, Construction of canteen by a group of alumni, enhance industry support.
18.	New PG programs /increase intake capacity	<p>Started new three PG programs namely</p> <ul style="list-style-type: none"> • VLSI and Embedded Systems, • Structural Engineering and • Textile Technology and <p>Increase in the intake of PG program in Electronics.</p>

19.	Created ecosystem for preparation/participation in competitive examination/events	<ul style="list-style-type: none"> Promoted UPSC Chapter, provided facilities and guidance from experts Success of alumni in administrative services (IAS, IPS, IFS etc) GATE toppers Student exchange programme MOU's with foreign universities Smart India Hackthon – winner Election Software – Live streaming
20.	NBA accreditations (UG and PG)	Two cycles of NBA accreditation for accreditation of UG and PG programs. Eligible programs got accredited.
21.	Extension of Autonomy	Autonomous status of the institute has been extended for next five years (2017-18 to 2021-22) for third time.
22.	Students Centric activities / Academic reforms	<p>Revision of Curriculum: Choice based learning, Six-month projects in industry, industry advisory panel, institute electives, credit transfer etc</p> <p>Academic Audit and Gap analysis: To assess academic performance and progress by the senior Professors from reputed institutes. It helps to design the curriculum and minimize identified gaps</p> <p>Foreign language courses: With the support from SRTMU, Nanded started the certificate courses in foreign languages like French, Spanish and German.</p> <p>Summer Internship Program: Implemented two months summer internship program (with stipend and accommodation for outside students and participation certificate)</p> <p>Placement and internship: Enhanced placement in Core companies Internship in industry for six months</p> <p>Participation of students at National level events: Increased the participation of students in events like Baja, Supra, SAE, Robocon, Smart India Hackthon, International conferences etc.</p>
23.	Started the Graduation day and farewell function	<ul style="list-style-type: none"> Awards like Gold Medal, Silver Medal, Bronze Medal to the students of all departments and Certificate of Academic Excellence to the institute toppers are given in the programs. Remaining students receives all the documents expected from institute in one folder. Students and parents are invited for the event.
24.	Started State level sports events since 2014-15	To enhance the sports culture among the students Also to give visibility to institute

25.	Infrastructure development	Construction of <ul style="list-style-type: none"> • Departmental buildings to accommodate four departments, • Boys hostel (capacity @500), • Auditorium etc, • Renovation of research laboratory, • Class rooms, face lifting of the campus etc.
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Shouldered crucial responsibilities as:

- Chairman, Purchase Committee of the institute during 14.02.2005 to 17.05.2012 (7+ years)
- 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 (winter) 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

In brief, I have contributed through the leadership to take forward the institute profile on various fronts such as conducive academic environment and ambience, execute professionally various state and Government initiatives, industry and alumni connect, outreach with premier institutions in India and abroad, infrastructural development and campus face-lifting etc.

References:

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Dr. L. M. Waghmare