

BIODATA

Name: Dr. Pawar Padmakar Jagannath.

Date of Birth: 24/7/1974

E-mail: pjpawar@kkwagh.edu.in

Contact No: 09850972420



Office Address: Professor & Head, Department of Production Engineering,
K. K. Wagh Institute of Engineering Education and research, Nasik

Residence: D-8, Sheetal Paradise, Behind Prakash Hotel, Govindnagar, Nasik-422009.

Educational Qualification:

Sr. No.	Degree	Specialization	College	University	Year	Mark and Class
1.	Ph.D.	Mechanical Engg.	S.V.N.I.T. Surat	S.V.N.I.T. Surat	Jan. 2011	Awarded
2.	M.E.	Mechanical Engg.	Govt. college of Engineering, Karad	Shivaji University Kolhapur	Feb. 2003	70.38 % Distinction
3.	B.E.	Production Engg.	K.K.Wagh College of Engg, Nasik	University of Pune	May 1995	66 % Distinction

Experience:

Organization	Designation	Period
K. K. Wagh I. E. E. & R, Nasik	Professor in Production Engineering	1/6/2013 to till date
K. K. Wagh I. E. E. & R, Nasik	Associate Professor in Production Engineering	1/8/2010 to 31/5/2013
K. K. Wagh I. E. E. & R, Nasik	Assistant Professor in Production Engineering	1/8/2007 to 31/7/2010
K. K. Wagh I. E. E. & R, Nasik	Senior Lecturer in Production Engineering	1/7/2005 to 31/7/2007
K. K. Wagh I. E. E. & R, Nasik	Lecturer in Production Engineering	14/9/1996 to 30/6/2005
J.T.M. College of Engineering, Faizpur, Dist:Jalgaon	Lecturer in Mechanical Engineering	10/1/1996 to 13/9/1996

Approval details:

Organization	Designation	Date of Joining with letter No.	Date of University permanent approval with letter No.
K. K. Wagh I. E. E. & R, Nasik	Professor	1/6/2013 KKWES/Engg/Uni. Selection/3818/2013 Dtd: 31 st May, 2013	1/6/2013 CCO/4346 Dated: 11/12/2013
K. K. Wagh I. E. E. & R, Nasik	Assistant Professor	1/8/2007 KKWES/Engg/078/8/2007 Dtd: 26 th July, 2007	1/8/2007 CCO/App/81 Dtd: 9/10/2007
K. K. Wagh I. E. E. & R, Nasik	Senior Lecturer	1/7/2005 KKWES/CO/899-6/2006 Dtd: 6 th Nov. 2006	-----
K. K. Wagh I. E. E. & R, Nasik	Lecturer	14/9/1996 KKWCOE/1256/97 Dtd: 28/7/97	1/8/1997 CCO/1626 Dtd: 2/7/1998
J.T.M. College of Engineering, Faizpur, Dist: Jalgaon	Lecturer	10/1/1996 TMES/JTMCOEF/771/96-97	-----

Other Experience:

- PG Co-ordinator for ME (Production Engineering) from academic year 2011-12 to July 2016.
- Co-ordinator of 'Alumni Association of K. K. Wagh College of Engineering, Nasik' from academic year 2003 to till date.
- Worked as Assistant Director of central assessment program of University of Pune examinations for FE and SE examinations during May 2011 to May 2013.
- Worked as member of Local Investigation Committee of Pune University

Recognition:

- Approved guide for PG and Ph. D. (Production Engg) of Savitribai Phule University of Pune

Membership of Professional Bodies: LM IIPE, LM IIIE, M IET

Publications in International Journals: 20 Total No. Citations: 526

1. Rao, R. V., Pawar, P. J., Shankar, R. (2008) 'Multi-objective optimization of electro-chemical machining process parameters using a particle swarm optimization algorithm', *Journal of Engineering Manufacture*, Vol.222 (8), pp.949-958. (Publisher: I. Mech. E. UK)
DOI: 10.1243/09544054JEM1158
2. Rao, R. V., Pawar, P. J. (2009) 'Modeling and optimization of process parameters of wire electric discharge machining', *Journal of Engineering Manufacture*, Vol. 223 (11), pp. 1431-1440. (Publisher: I. Mech. E. UK)
DOI: 10.1243/09544054JEM1559
3. Rao, R. V., Pawar, P. J. (2010) 'Parameter optimization of a multi-pass milling process using nontraditional optimization algorithms', *Applied Soft Computing*, Vol.10 (2), pp.445-456.(Publisher: Elsevier)
DOI: 10.1016/j.asoc.2009.08.007

4. **Pawar, P. J.,** Rao R. V., Davim J. P. (2010) 'Multi-objective optimization of grinding process parameters using particle swarm optimization algorithm', *Materials and Manufacturing Processes*, Vol. 25 (6), 424-431. (Publisher: Taylor & Francis)
DOI: 10.1080/10426910903124860
5. Rao R. V., **Pawar P. J.,** Davim J. P. (2010) 'Parameter Optimization of Ultrasonic Machining Process Using Non-traditional Optimization Algorithms', *Materials and Manufacturing Processes*, Vol. 25(10), 1120-1130. (Publisher: Taylor & Francis)
DOI: 10.1080/10426914.2010.489788
6. Rao, R. V., **Pawar, P. J.** (2010) 'Grinding process parameter optimization using non-traditional optimization algorithms', *Journal of Engineering Manufacture*, Vol. 224 (6), pp. 887-898. (Publisher: I. Mech. E. UK)
DOI: 10.1243/09544054JEM1782
7. Rao, R. V., **Pawar, P. J.,** Davim J. P. (2010) 'Optimization of process parameters of mechanical type advanced machining processes using a simulated annealing technique', *International Journal of Materials and Product Technology*, Vol. 37 (1-2), pp. 83-101. (Publisher: Inderscience, USA)
DOI: 10.1504/IJMPT.2010.029461
8. Rao R. V., **Pawar P. J.,** (2010) 'Process parameter modeling and optimization of wire electric discharge machining', *Advances in Production Engineering and Management Journal*, Vol. 5 (3), pp. 139-150. (Publisher: University of Moribor, Russia)
9. **Pawar, P. J.,** (2010) Rao R. V., Shankar, R. 'Multi-objective optimization of electro-chemical machining process parameters using an artificial bee colony (ABC) algorithm', *Journal of Mechatronics and Intelligent Manufacturing*, Vol. 1 (3/4), pp. 7-12. (Publisher: Nova Science, USA)
10. **Pawar, P. J.,** Rao R. V. (2010) 'Modeling and optimization of process parameters of injection molding process', *Journal of Mechatronics and Intelligent Manufacturing*, Vol. 2 (1/2), pp. 99-114. (Publisher: Nova Science, USA)
11. **Pawar, P. J.,** Rao R. V. (2013) 'Parameter optimization of machining processes using teaching-learning based optimization algorithm', *International Journal of Advanced Manufacturing Technology*, Vol.67 (5-8), pp. 995-1006. (Publisher: Springer-Verlag, London)
DOI: 10.1007/s00170-012-4524-2
12. **Pawar P. J.,** Dhiraj Rai-Kalal. (2013) 'Multi-objective optimization of grinding process parameters using NSGA II', *International Journal of Metaheuristics*, Vol. 2 (2), pp. 123-140.(Publisher: Inderscience, USA)
DOI:10.1504/IJMHEUR.2013.054137
13. S.B. Chandgude, **P. J. Pawar** and M. Sadaiah (2014) 'Process parameter optimization based on principal components analysis during machining of hardened steel', *International Journal of Industrial Engineering Computations*, Vol. 6 (3), pp.379-390. (Publisher: Growing Science, Canada)
DOI: 10.5267/j.ijiec.2015.2.004.

14. A. M. Dalavi, **P. J. Pawar** and T. P. Singh (2015) 'Optimization of hole-making operations for injection mould using particle swarm optimization algorithm', *International Journal of Industrial Engineering Computations*, Vol. 6 (4), PP. 433–444. (Publisher: Growing Science, Canada)
DOI: 10.5267/j.ijiec.2015.6.003.
15. K. V. Chandratre, **P. J. Pawar**, K. N. Nandurkar (2016) "Dynamic Machine Layout for Press Tool Operations Using Real Coded Genetic Algorithm", *International Journal of Metaheuristics*, Vol. 5 (2), pp. 91-114 .(Publisher: Inderscience, USA)
DOI: 10.1504/IJMHEUR.2016.10001069
16. A. M. Dalavi, **P. J. Pawar** and T. P. Singh (2016) "Optimal Sequence Of Hole-Making Operations Using Particle Swarm Optimization And Shuffled Frog Leaping Algorithm", *Engineering Review*, Vol. 36 (2), pp. 187-196
17. A. M. Dalavi, **P. J. Pawar** and T. P. Singh (July 2016) "Tool path planning of hole-making operations in ejector plate of injection mould using modified shuffled frog leaping algorithm", *Journal of Computational Design and Engineering*, Vol. 3 (3), pp. 266–273 (Publisher: Elsevier)
DOI: 10.1016/j.jcde.2016.04.001
18. Anil Mali, **Padmakar Pawar** (2017) Parametric optimization of abrasive water jet machining of glass fibre reinforced plastic composite using non-dominated sorting genetic algorithm-II, *International Journal of Metaheuristics*, Vol. 6 (4), pp. 334-354 (Publisher: Inderscience, USA)
DOI: 10.1504/IJMHEUR.2017.086982
19. Ajinkya Joshi, Vinayak Deshpande, **Padmakar Pawar** (2017) Identification of factors influencing the performance of government organizations and undertakings in India using Analytic Hierarchy Process, *International Journal of Services Sciences*, Vol. 6 (2) , pp. 162-176 (Publisher: Inderscience, USA)
DOI: 10.1504/IJSSCI.2017.088754
20. **P. J. Pawar**, U. S. Vidhate, M. Y. Khalkar (2017) Improving the quality characteristics of abrasive water jet machining of marble material using multi-objective artificial bee colony algorithm, *Journal of Computational Design and Engineering*, In-Press (Elsevier)
DOI: 10.1016/j.jcde.2017.12.002

Publications in National Journals: 03

1. **P. J. Pawar**, M. Y. Khalkar (2013) Optimum movement control of redundant manipulators using simulated annealing algorithm, *Industrial Engineering Journal*, Vol. 6 (7), pp. 6-9.
2. A. M. Dalavi, **P. J. Pawar**, T. P. Singh (2015) Optimization of hole making operations for injection mold using shuffled frog leaping algorithm with modifications, *Industrial Engineering Journal*, Industrial Engineering Journal, Vol. 8 (11), pp. 17-19.
3. A. M. Dalavi, **P. J. Pawar**, T. P. Singh (2015) Evaluating the performance of the particle swarm optimization and shuffled frog leaping algorithm for benchmark problems *Industrial Engineering Journal*, Industrial Engineering Journal, Vol. 9 (2), pp. 6-9.

Paper Presented/Published in International Conferences/seminars: 49

Sr. No.	Name of the Conference/seminar	Organizer	Date	Title of Paper
1	International Conference on Agile Manufacturing for Cleaner Product and Sustainability: Internet Solutions	University of Bangalore	14-17 Dec.2002	Minimization of Material Waste Through Optimized Strip Layout in Press Tool Operation Using Simulated Annealing.
2	International Conference on Mechanical Engineering	BUET,Dhaka, Bangladesh	26-28 Dec.2003	Development of a Software for Automated Design of Machining Fixture Using Kinematic Analysis and Synthesis
3	International Conference on Mechanical Engineering	BUET,Dhaka, Bangladesh	26-28 Dec.2003	Development of an Automatic Forging Die Design System For Two Dimensional Components
4	International conference on Operation Research Application in Infrastructure Development (Held at IISC)	Operation Research Society of India (ORSI)	27-29 Dec.2005	An Algorithm for Optimisation of Cutting Stock Problem with Irregular Shapes.
5	International conference on Global Manufacturing and Innovation	Coimbatore Institute of Technology, Coimbatore.	27-29 July,2006	Optimization of Buffer Capacity in Multi Stage and Multi Stream Process Using Gradient Based Search Algorithm.
6	International conference on Global Manufacturing and Innovation	CIT, Coimbatore.	27-29 July,2006	A Nesting Algorithm for Irregular Parts with Opimal Allocation on Varying Sheet Sizes
7	International conference on Recent Advances in Materials and Processing	PSG College of Technology, Coimbatore	15-16 Dec.2006	Optimisation of Plastic Flow in Injection Molding
8	International conference on Recent Advances in Materials and Processing	PSG College of Technology, Coimbatore	15-16 Dec.2006	Development of an Automatic Forging Die Design Using Evolutionary Optimisation
9	International conference on Advances in Manufacturing and Technology Management	Mumbai University and Parswanath C.O.E. Thane.	18-20 Jan.2007	Product Life Cycle For Manufacturing Industries: An Overview
10	International conference on System Research, Informatics and Cybernetics. (Held at Baden-Baden, Germany)	International Institute of Advance studies, Canada.	24-30, July, 2008	Multi-objective optimization of electro-chemical machining process parameters using a soft computing technique.
11	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of grinding process using particle swarm optimization
12	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Multi-objective optimization of electro-chemical machining process parameters using

				artificial bee colony (ABC) algorithm
13	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of abrasive flow machining process using artificial bee colony algorithm
14	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of multi-pass milling operation using particle swarm optimization
15	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	3-5, August. 2009	Cost effective selection of process parameters in multi-pass milling operation
16	4 th International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	23-25, September, 2010	Parameter optimization of ultrasonic machining process using hybrid ABC-SA algorithm
17	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat & Novosibirsk State Technical University Russia	20-22 September, 2011	Multi-objective optimization of process parameters in turning operations using hybrid ABC-SA algorithm
18	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Industrial robot selection using fuzzy multiple attribute decision making methods
19	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Evolutionary approaches in industrial automation
20	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Optimization of blank nesting in press tool operations using particle swarm optimization algorithm
21	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Parameter optimization of abrasive water jet machining process using particle swarm optimization
22	International Conference on Artificial Intelligence and Soft Computing (held at Bhubaneswar)	Interscience Research Network	9-10, April, 2011	Minimization of material waste in press tool operations using genetic algorithm

23	International Conference on Artificial Intelligence and Soft Computing (held at Bhubaneswar)	Interscience Research Network	9-10, April, 2011	Optimization of process parameters of abrasive water jet machining process using GA with adaptive penalty method.
24	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	6-8, June 2011	Multi-Objective optimization of WEDM process using SFL algorithm
25	2 nd International workshop on Computational Intelligence and Modern Heuristics in Automation & Robotics	Novosibirsk State Technical University Russia	10-13, Sept. 2011	Optimum control of movement of redundant manipulators using particle swarm optimization algorithm
26	2 nd International workshop on Computational Intelligence and Modern Heuristics in Automation & Robotics	Novosibirsk State Technical University Russia	10-13, Sept. 2011	Improving the performance of universal motor using hybrid ABC-SA algorithm
27	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad, Gujarat)	Interscience Research Network	12 Feb. 2012	Multi-objective optimization of machining processes using Non-dominated sorting genetic algorithm
28	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad)	Interscience Research Network	12 Feb. 2012	Optimization of process parameters for compression molding of glass reinforced-resin
29	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad)	Interscience Research Network	12 Feb. 2012	Experimental Investigations on effect of process parameters of cold backward extrusion
30	International Conference on "Advanced Engineering Optimization Through Intellogent Techniques"	SVNIT Surat	1-3 July, 2013	Optimization of hole-making operations: a genetic algorithm approach
31	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimisation of cold backward extrusion process using teaching-learning-based optimization algorithm
32	International Conference on "Advanced Engineering Optimization Through Intellogent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimization of die casting process using cuckoo search algorithm
33	International Conference on "Advanced Engineering Optimization Through Intellogent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimization of compression molding process using principal component analysis
34	International Conference on Computational Intelligence	University of Mumbai	21-22 March, 2014	Assembly line balancing using real coded genetic algorithm
35	4th International Conference on "Advance Trends in Engineering, Technology and Research" (ICATETR-2015),	BKIT, Kota	19-20 June 2015	Minimization of Wire Breakage in Wire Electric Discharge Machining of EN-19
36	International Conference	IRJA	8 Nov.	Cutting fluid selection for

	on Mechanical & Production Engineering	Research Forum,	2015	cylindrical grinding of glass fiber reinforced plastic material
37	Advanced & Agile Manufacturing Agile Software Development (ICAM-ASD) – 2016	SGGS Institute of Engineering & Technology Nanded	6-7 Oct. 2016	Material flow optimization of flexible manufacturing system using real coded Genetic Algorithm (RCGA) Co-author: K. C. Bhosale
38	International Conference on Advances in Materials & Manufacturing	Osmania University & DRDL Hyderabad	8-10 Dec. 2016	Application of AHP for Process Parameter Selection and Consistency Verification in Secondary Steel Manufacturing
39	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Plane Magnetic Abrasive Finishing of AISI-304 Stainless Steel
40	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Inverse Kinematics Problems in Industrial Robotics: A Review
41	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Drilling Path Optimization of Holes of Printed Circuit Board using Modified Shuffled Frog Leaping Algorithm
42	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Experimental Investigation and Optimization of Control Parameters of Cooling System for an Industrial Robot Controller Cabinet
43	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Optimization of Operation Allocation Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm
44	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Multi-Response Optimization of Burnishing of Friction Welded Al6082-T6 using Grey Relation Analysis
45	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Predicting Production Quantity by Integrating Monte Carlo Simulation and Regression Analysis
46	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Ranking Organization Method for Enrichment Evaluations (PROMETHEE)
47	International Conference on Manufacturing Excellence (3-4 March	K. K. Wagh IEER, In association	3-4 March 2017	Analyzing Impact of E-Governance Practices and Standardized Processes on

	2017)	with SPPU, Pune		Customer Satisfaction of MHADA using TOPSIS with Reference to Pune and Nashik Board
48	International Conference on Manufacturing Excellence (3-4 March 2017)	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Modeling and Optimization of Wire Electric Discharge Machining
49	National Conference on Recent trends in Computer Science and applications	Indira College of Commerce and Science, Pune	22-23 Dec. 2017	Application of Fuzzy Rating Scale in Industrial Robot Selection

Paper Presented/Published in National/regional Conferences: 08

Sr. No.	Name of the Conference	Organized by	Date	Title of Paper
1	Symposium on Manufacturing Excellence	IIT, Madras	7-8 Jan.2002	Computer Aided Design of Blanking Dies with Optimization of Strip Layout Using Simulated Annealing
2	19 th Indian Engineering Congress	Institution of Engineers (India)	17-19 Dec.2004	Productivity Improvement through Automated Tool Design Using Optimization Technique
3	National Seminar on Recent Advances in Mechanical Engineering	K.K.Wagh College of Engineering, Nasik	16-17 Jan.2004	Software for Automated Design of Fixture
4	National Conference on 'Global Competitiveness Through Quick Response Manufacturing' organised by during	GLA University Mathura and IIPE Mathura Chapter	18-20 April 2014.	Development of automatic fixture configuration using genetic algorithm
5	National Conference on 'Global Competitiveness Through Quick Response Manufacturing' organised by during	GLA University Mathura and IIPE Mathura Chapter	18-20 April 2014.	Multi-objective Optimization of Laser Beam Machining Process Parameters
6	Innovation 2014	Pune University	2 May 2014	Development of redundant manipulator system for obstacle avoidance
7	Innovation 2015	Pune University	1 July 2015	Development of redundant manipulator system for obstacle avoidance
8	Recent Trends in Computer Science & Applications & Computational Mathematics	Indira College of commerce & Science. Pune	22-23 Dec. 2016	Parametric Optimization of Cold Backward Extrusion Process using Simulated Annealing.

Publications in International Research Books: 02

S. N.	Title of chapter	Name of the book	Name of Publisher
1	Multi-objective optimization of multi-pass milling process parameters using artificial bee colony algorithm	'Artificial Intelligence in Manufacturing Research' Editor: Prof. J. Paulo Davim	Nova Science publishers, Inc., New York, USA.
2	Optimization of abrasive flow machining process using particle swarm optimization and simulated annealing algorithms	'Artificial Intelligence in Manufacturing Research' Editor: Prof. J. Paulo Davim	Nova Science publishers, Inc., New York, USA.

M. E. Dissertation guided: 19

Sr. No.	Name of the student (Year of passing)	Title of dissertation
1	Mr. More Ashok D. (2011)	Nesting of curvilinear components using GA
2	Mrs. Deshpande S. P. (2012)	Parametric optimization of compression molding process using PCA
3	Mr. Devendra Patil (2013)	Optimization of cold backward extrusion process using SQP
4	Mr. Kalal Dhiraj Rai (2012)	Multi-objective optimization of some machining processes using NSGA
5	Mr. Khalkar Mangesh (2013)	Motion control of redundant manipulators for obstacle avoidance using SA
6	Mr. Naik M. L. (2013)	Optimization of hole making operations: a genetic algorithm approach
7	Mr. Chavan C.V. (2013)	Parametric optimization of die casting process
8	Rana Hardik R. (2014)	Development of automatic fixture configuration by Genetic Algorithm
9	Rajan Rajeev Kumar (2014)	Assembly line balancing using real coded genetic algorithm
10	Rayate Girish B. (2014)	Multi-objective optimization of laser beam machining process parameters
11	Gaidhani Yogesh Bhaskar (2014)	Experimental investigations of abrasive water jet cutting
12	Mr. Thorve Kiran M (2015)	Minimization of Wire Breakage in Wire Electric Discharge Machining of EN - 19 Material
13	Mr. Bhangale Jignesh (2015)	Experimental Investigations and Performance Improvement for Compression Molding of O-ring Seal
14	Mr. Don Dominic Kurian	Fatigue Life Improvement with Cost Minimization Of Engine Mounting Bracket In A Sport Utility Vehicle
15	Deshmukh Rahul Soma	Performance Improvement Of Hard-Chrome Electroplating Process For Mild Steel Material Through Optimum Selection Of Process Parameters
16	Vidhate Umesh S.	On the improvement of quality parameters for abrasive water jet machining of marble material
17	Nighot Mohit A	Experimental investigations And Optimization Of Control Parameters Of

	(Oct. 17)	Cooling System Used in industrial Robot Controller
18	Bansode Raj Peter (Oct. 17)	Selection Of Welding Process And Electrode For Welding Mild Steel Using Multi - Attribute Decision Making Approach
19	Deshmukh Arjun Satish (Oct. 17)	Damage Control Of Steam Turbine Shaft Through implementation On image Processing Technology For Vibration Anaiysis

No. of Ph. D. guided: 01 (6 in progress)

Sr. No.	Name of the Research Scholar (Year of passing)	Title of dissertation	University
1	Dalavi Amol M. (2011)	Optimization of Hole Making Operations using Advanced Optimization Techniques	Symbiosis International University, Pune (As a co-guide)

Expert lectures delivered: 43

1. Delivered expert lectures on **12th December 2017** at AICTE sponsored 2 week FDP on "Competitive manufacturing Technologies" organized by **AVCOE Sangamner**, during 11-22 December 2017.
2. Delivered expert lectures on **14th December 2017** at one week FDP on "Fuzzy Logic and Its Applications" organized by **K. K. Wagh IEER Nashik**, during 11-15 December 2017.
3. Delivered expert lectures (Total 8 Hrs. duration) on **27-28 March 2017** at one week STTP on "Advanced Engineering Optimization through Intelligent Techniques" organized by **SVNIT, Surat**, during 27-31 March 2017.
4. Delivered expert lectures (Total 3 Hrs. duration) at one week TEQIP - STTP on "Soft Computing Techniques in Engineering Applications", (SOCTEA-2017) organized by **Government College of Engineering, Aurangabad** during 15-19 February, 2017
5. Delivered expert lectures (Total 8 Hrs. duration) on **6-7 February 2015** at one week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" organized by **SVNIT, Surat**, during 6-10 February 2017.
6. Delivered expert lectures (Total 2 Hrs. duration) at SPPU sponsored Two day State Level Workshop on 'Mechanical Engineering Design: Trends and Practices' organized by Department of Mechanical Engineering, **K. K. Wagh IEER during 27 - 28 January 2017**
7. Delivered expert lectures (Total 4 Hrs. duration) at DTE approved & sponsored One week STTP on 'Excellence in Manufacturing Engineering' at **G. P. Nashik during 2nd-6th January, 2017.**

8. Delivered expert lectures (Total 5 Hrs. duration) at Solapur University sponsored one week workshop on “Optimization Techniques in Mechanical Engineering” organized by **Sinhgad College of Engineering Solapur during 26 to 30 Dec. 2016**
9. Delivered expert lectures (Total 9 Hrs. duration) at Three days’ workshop on “Soft Computing: Applications in Engineering” held during **8-10 Dec. 2016 at K. K. Wagh Institute of Engineering Education and Research, Nashik.**
10. Delivered expert lecture on 1/6/2016 at ISTE approved one week STTP on “Applications of MATLAB in Engineering & Technology” organized by **Shivajirao S. Jondhle College of Engineering & Technology , Asangaon**, during 30 May-3 June 2016
11. Delivered expert lecture on 27/4/2016 at ISTE approved one week STTP on “Advanced Optimization Techniques for Innovative Research in Technology” organized by **MIT College of Engineering, Pune** during 25-29 April 2016
12. Delivered Key-note speech at SPPU sponsored National Conference on “Research Methodology” organized by **SND College of engineering and Research Center, Yeola** during 18-19 Feb. 2016.
13. Delivered expert lectures (Total 5 Hrs. duration) on **30 & 31 Jan 2016** at Three Days Workshop on “Recent Advancement in Soft Computing Techniques” organized by **NIT Agaratala** during 29 - 31 Jan 2016.
14. Delivered expert lectures (Total 10 Hrs. duration) on **16-19 Jan 2016** at one week STTP on “Optimization aspects of Robotics and Computer Integrated Manufacturing” organized by **K. K. Wagh I. E. E. & R., Nashik**, during 16st Jan- 20th Jan 2016.
15. Delivered expert lectures (Total 6 Hrs. duration) on **8 & 9 Jan 2016** at Two Days Workshop on “Advanced Cognitive and other optimization Techniques” organized by **JNTU, Hyderabad** during 8 - 9 Jan 2016.
16. Delivered expert lectures (Total 8 Hrs. duration) on **22-24 June 2015** at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during 22st June- 26th June 2015.
17. Delivered expert lectures on **5th June 2015** (Total 4 Hrs.) at one week Workshop on “Design of Experiments and Optimization Techniques” Organized by **SRES College of Engineering**, Kopargaon, during 1-5 June 2015.

18. Delivered expert lectures on **29th April 2015** (Total 2 Hrs. duration) at Two Days Workshop on “Thrust Areas of Research & Essential Techniques for Optimization and Modeling” Organized by **JSPM Imperial College of Engineering and Research, Wagholi, Pune**, during 29-30 April 2015.
19. Delivered expert lectures on **28th April 2015** (Total 3 Hrs. duration) at AICTE sponsored Two week Faculty Development Program on “Manufacturing Excellence: Path to Global Competitiveness of Indian Manufacturing Inc”., organized by **Amrutvahini College of Engineering, Sangamner** during 21 April-2 May 2015.
20. Delivered expert lectures on **21th April 2015** (Total 4 Hrs. duration) at One Week Workshop on "Applications of Engineering Mathematics" organized by **Sandip Institute of Technology and Research Centre**, Nashik during 20-24, April 2015.
21. Delivered expert lectures on **31 Jan. 2015** (Total 4 Hrs. duration) at SPPU sponsored Three days International Workshop on “Advances in Engineering Optimization” organized by **Dnyanganga College of Engineering & Research, Narhe, Pune**, during 29 Jan.- 31 Jan 2015.
22. Delivered expert lectures on **6th Jan. 2015** (Total 3 Hrs. duration) at one week STTP on “Research methodology and Technology Management” organized by **K. C. College of Engineering and Management Studies and Research, Thane**, during 5st Jan.- 9th Jan 2015.
23. Delivered expert lectures (Total 8 Hrs. duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **1st December- 5th December 2014**.
24. Delivered expert lectures (Total 8 Hrs. duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **22nd September- 26th September 2014**.
25. Delivered invited talk on **1st May 2014** (2 Hrs) at Workshop on “Advanced Engineering Optimization through Intelligent Techniques” held during 1-3 May 2014 organized by **Indian Space Research Organization (ISRO) Ahmadabad**.
26. Delivered invited talk on **19th April 2014** (2 Hrs) at National Conference on 'Global Competitiveness Through Quick Response Manufacturing' organized by **GLA University Mathura** and IPE Mathura Chapter during 18-20 April 2014.

27. Delivered expert lectures (Total 6 Hrs. duration) at Two days workshop on “Research Methodology: Recent trends and Applications” held during **11-12 April 2014** at **K. K. Wagh Institute of Engineering Education and Research, Nashik**.
28. Delivered expert lectures (Total 10 Hrs. duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **27th January- 31st January 2014**.
29. Delivered expert lectures (Total 8 Hrs. duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **23rd September- 27th September 2013**.
30. Delivered expert lectures at One day workshop on “Computer Aided Design & Manufacturing of Plastic Mould” organized by **Amrutvahini College of Engineering, Sangamner** on **20th September 2013**.
31. Delivered invited speech at International Conference on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT Surat** during **1-3 July 2013**.
32. Delivered expert lecture on **22 June 2013** (3 Hrs. duration) at one week workshop on “Research Methodology” organised by **Matoshri College of Engineering and Research Center, Nasik** during 18-22 June 2013.
33. Delivered expert lecture on **6th June 2013** (3 Hrs. duration) at one week workshop on “Soft Computing Tools & its Applications in Engineering (SOCTAPE-2013) organized by **Government College of Engineering, Aurangabad** during 3-7 June 2013.
34. Delivered expert lectures (Total 8 Hrs duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **7th Jan- 11th Jan 2013**.
35. Delivered expert lecture on **27th September 2012** at two days workshop on “Matlab for Mechanical Engineers” organized by **Sinhgad Institute of Technology, Lonavala**, during **27th – 28th September, 2012**.
36. Delivered expert lectures (Total 8 Hrs duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT, Surat**, during **14nd May- 18th May 2012**.

37. Delivered expert lecture **on 27 February 2012** at two days state level seminar on “Advanced Engineering Optimization” organized by **Gokhale Education Society’s College of Engineering, Nasik**, during 27th – 28th February, 2012.
38. Delivered expert lectures (Total 8 Hrs duration) at one week STTP on “Advanced Engineering Optimization through Intelligent Techniques” organised by **SVNIT, Surat**, **during 2nd Jan. - 6th Jan. 2012.**
39. Delivered expert lectures at MSBTE sponsored STTP on “CAD/CAM & Automation” organized by **Guru Govind Singh Polytechnic, Nasik**, during 12 Dec. to 16 Dec. 2011.
40. Delivered expert lectures (Total 4 Hrs duration) at ISTE sponsored STTP on “Soft Computing Tools & its Applications in Engineering (SOCTAPE-2011) organized by **Government college of Engineering, Aurangabad**, during 20th June to 1st July 2011.
41. Delivered expert speech at University of Pune sponsored Two days state level seminar on “Advanced Engineering Optimization (ADOPT)” organized by **K. K. Wagh I. E. E. & R**, **during 1-2 February, 2010.**
42. Delivered expert lecture at AICTE sponsored STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT Surat** during July 13- July 17, 2009.
43. Delivered expert lecture at AICTE sponsored STTP on “Advanced Engineering Optimization through Intelligent Techniques” organized by **SVNIT Surat** during June 30- July 04, 2008.

Awards: 02

1. Received best research paper award for paper titled ‘Optimization of process parameters of grinding process using particle swarm optimization algorithm’, at International Conference on Advances in Mechanical Engineering, organized by S. V. N. I. T. Surat, during 15-17, Dec, 2008.
2. Received best research paper award for paper titled ‘Minimization of material waste in press tool operations using genetic algorithm’, at International Conference on Artificial Intelligence and Soft Computing, organized by Interscience Research Network during 9-10, April, 2010.

Conferences/Workshops/Seminars organized: 07

1. One week FDP on “Fuzzy Logic and Its Applications” held during 11-15 Dec. 2017 at K. K. Wagh Institute of Engineering Education and Research, Nashik.

2. Co-convenor of SPPU sponsored "International Conference on Manufacturing Excellence (ICMAX-2017)" held during 3-4 March 2017 at K. K. Wagh Institute of Engineering Education and Research, Nashik.
3. Three days workshop on "Soft Computing: Applications in Engineering" held during 8-10 December, 2016 at K. K. Wagh Institute of Engineering Education and Research, Nashik.
4. One week workshop on "Optimization aspects of Robotics and Computer Integrated Manufacturing" held during 16-20 Jan 2016 at K. K. Wagh Institute of Engineering Education and Research, Nashik.
5. Two days workshop on "Advanced Statistical methods for Tool & Die Design" held during 13-14 September, 2014 at K. K. Wagh Institute of Engineering Education and Research, Nashik.
6. Two days workshop on "Research Methodology: Recent trends and applications" held during 11-12 April 2014 at K. K. Wagh Institute of Engineering Education and Research, Nashik.
7. University of Pune sponsored Two days state level seminar on "Advanced Engineering Optimization (ADOPT)" held during 1-2 February, 2010 at K. K. Wagh Institute of Engineering Education and Research, Nashik.

Research projects: 03

S. N.	Title of research Proposal	Funding agency	Year	Amount sanctioned
1	Development of redundant robot manipulator system with optimum movement control for obstacle avoidance	SPPU, Pune	2013-15	Rs. 190000/-
2	PLC based electro-hydraulic trainer	AICTE (MODROB)	2014-15	Rs. 588235/-
3.	Experimental Investigations with Magnetic Abrasive Finishing (MAF) processes for nano-metric surface finish of hard to machine Metals (Co-investigator)	SPPU, Pune	2015-17	Rs. 170000/-

Workshops/Seminars attended: 12

Sr. No.	Title of Workshop/seminar/STTP	Organizer	Date
1	Syllabus implementation of B.E. Production Engineering 2008 course of University of Pune	D. Y. Patil college of Engineering	4 August 2011
2	Indo-Russian joint workshop on "Computational Intelligence and Modern Heuristics in Automation and Robotics"	S. V. N. I. T., Surat. (sponsored by DST & RFBR)	20-22, September, 2010
3	Multi-criteria decision making and	S. V. N. I. T., Surat.	4-5 October

	its Industrial applications		2008
4	Product Life Management Using CAD	Indo-US Collaboration for Engineering Education	14-18 July 2008
5	'Advanced Engineering Optimization through Intelligent Techniques'	S. V. N. I. T., Surat. (sponsored by AICTE)	16-20 June. 2008
6	Supply Chain Management	K. K. Wagh Institute of Engineering education and Resaerch, Nasik.	18 th Feb. 2006
7	Computer Integrated Product Design	Sant Gajanan Maharaj College of Engineering, Shegaon, Maharashtra.	4-8 Dec.2006
8	Leveraging PLM for becoming Manufacturing Destination of the World	Genba Sopanrao Moze College of Engineering, Balewadi Pune	11 March 2006
9	Supply Chain Management	K.K.Wagh College of Engineering, Nasik.	18 Feb.2006
10	Industrial Automation Using Robotics and PLC	Singhgad College of Engineering, Pune	12-13 April.2006
11	Man Machine Interaction with Special Emphasis on Automobile and Ancillary Manufacturing	Institution of Engineers, (India)	1-2 Oct.2005
12	Advances in Manufacturing System and Industrial Automation	K.K.Wagh College of Engineering, Nasik (Sponsored by AICTE and ISTE)	16-21 June.2003

Industrial Training: 02


Sr. No	Organisation	Period
1.	Hindustan Aeronautics Limited, Nasik	29 th Aug.- 3 rd Sept. 2005
2.	Crompton Greaves Limited	26 th Dec.2000 – 8 th Jan. 2001

Software Training: 03

Sr. No.	Organization	Name of Course	Period
1.	Rolta (I) Ltd, Mumbai	Pro-E (CAD/CAM/CAE)	19-23, April 2004
2.	Nexus (P) Ltd. Pune	TOP SOLID (Basic Design, Mold and Progress)	21-24, Oct.2005
3.	Unigraphics	CAD/CAM	

Computer awareness:

- Programming languages known: C, Auto-Lisp
- Software handled: Auto-cad, Pro-E, MATLAB, and Top-solid, ANSYS


Dr. P. J. Pawar