

Dr.Raju Shrihari Pawade
Associate Professor, Department of Mechanical Engineering
Dr. Babasaheb Ambedkar Technological University, Lonere
Lonere – 402 103 MS (India)

Education

- **Ph.D.**(2008) Mechanical Engineering with the specialization in High-speed Machining of Superalloys, Indian Institute of Technology, Powai, Bombay, India.
- **M.E.**(1997) Machine Tool Engineering, P. S. G. College of Technology, Coimbatore, Bharathiar University, Coimbatore, TN (India).
- **B.E.** (1989) Mechanical Engineering, Government College of Engineering, Karad, 415 110 MS (India).

Teaching and Research Experience

Duration	Organization	Area(s)
04-09-1991 to 26-02-2009	Dr. Babasaheb Ambedkar Technological University, Lonere 402 103 MS	Lecturer, Mechanical Engineering and Incharge Workshop
27-02-2009 to 31-10-2010	Dr. Babasaheb Ambedkar Technological University, Lonere 402 103 MS	Assistant Professor (Fifth Pay commission) Mechanical Engineering
1-1-2006 to till date	Dr. Babasaheb Ambedkar Technological University, Lonere 402 103 MS	Associate Professor (Sixth Pay commission) Mechanical Engineering

Research Interest

- Machining of difficult to cut materials
- Machining process optimization
- Non-conventional machining

No. of Projects Guided

- PhD – 01 (Completed), 05 (In progress)
- M. Tech. – 25
- B. Tech. – 40

Selected Publications (No. of citations = 624, h-index=8, i-10 index = 7)
Referred Journals - 36

1. **R. S. Pawade**, Suhas S. Joshi, P. K. Brahmanekar, M. Rahman, An Investigation of Cutting Forces and Surface Damage in High-Speed Turning of Inconel 718, *Journal of Materials Processing Technology*, 2007, Vol. 192-193, pp. 139-146.
2. **R. S. Pawade**, Suhas S. Joshi, P. K. Brahmanekar, Effect of Cutting Edge Geometry and Machining Parameters on Surface Integrity of High-Speed Turned Inconel 718, *International Journal of Machine Tools and Manufacture*, 2008, Vol. 48 (1), pp. 15-28.
3. **R. S. Pawade**, Suhas S. Joshi, P. K. Brahmanekar and J. Ramkumar, Effect of Electrode Shape and Rotation on EDM performance of Inconel 718, *International Journal of Mechanical Engineering and Materials Science*, 2009
4. **R. S. Pawade**, Harshad Sonawane and Suhas S. Joshi, An Analytical Modeling to Predict Specific Cutting Energy in Shear Deformation in High-speed Turning of Inconel 718, *International Journal of Machine Tools and Manufacture*, 2009, Vol. 49 (12-13), pp. 979-990.
5. **R. S. Pawade** and P. K. Brahmanekar, Optimization of Powder Mixed EDM (PMEDM) Process with Multiple Performance Characteristics Using Taguchi Based Grey Relational Analysis, *Journal of Machining and Forming Technology*, Vol.3 (2-3), 2010.
6. **R. S. Pawade**, Suhas S. Joshi, Mechanism of Chip Formation in High-speed Turning of Inconel 718, *Machining Science and Technology*, Vol. 15 (1), 2011, pp.1532-2483,
7. **R. S. Pawade**, Suhas S. Joshi, Multi-objective Optimization of Surface Roughness and Cutting Forces in High-speed Turning of Inconel 718 using Taguchi Grey Relational Analysis (TGRA), *International Journal of Advanced Manufacturing Technology*, Vol. 56, No. 1, pp.47-62, 2011.
8. **R. S. Pawade**, Suhas S. Joshi, Analysis of Acoustic Emission Signals and Surface Integrity in High-speed Turning of Inconel 718, *Journal of Engineering Manufacture, Institution of Engineers, Part B*, Vol. 126 (1), 2012, pp. 3-27.
9. R S Pawade, S S Joshi, H Sonawane, N N Bhopale, Analysis and Modelling of Cutting Forces in Ball end Milling of Super Alloy Inconel 718, *Journal of Institution of Engineers (India), Mechanical Engineering*, Vol. 92, 2011, PP. 3-7.
10. A. D. Bagawade, P. G. Ramdasi, R. S. Pawade, P. K. Brahmanekar, Machining optimization models for hard turning: A review, *International Journal of Mechanical Engineering and Research*, Vol. 1 (1), 2012, pp. 55-60.
11. Sandeep Huddedar, Pankaj Chitalkar, Arvind Chavan and Raju S. Pawade, Effect of Cooling Environment on Grinding Performance of Nickel Based Superalloy Inconel 718, *Journal of Applied Sciences*, Vol. 12 (10), 2012, pp. 947-954

12. Arvind Chavan, Yogesh Gaikhe, Sandeep Huddedar and Raju Pawade, 3D Surface Characterization of Electrophoretic Deposition Assisted Polishing of SS316L. *Journal of Applied Sciences*, Vol.12 (10), 2012, pp. 929-937
13. K.A. Jagtap R. S. Pawade R. Balasubramaniam, Some Investigations on Surface characteristics in Precision Turning of Nylon and Polypropylene, Special Issue of International Journal of electronics, Communication & Soft Computing Science & Engineering, ISSN: 2277-9477, 2012, pp. 236-240.
14. Harshad Sonawane, Raju S. Pawade, Effects of Powder Mixed Dielectric on Electro-discharge Machining (PMEDM) of HSS Tool Steel, submitted to *International Journal of Mechatronics and Manufacturing Systems*, Special Issue on Electric Discharge Machining, Vol. 5 (5-6), 2012, pp. 431-454.
15. A. D. Bagawade, P. G. Ramdasi, R. S. Pawade, P. K. Brahmankar, Evaluation of Cutting Forces in Hard Turning of AISI 52100 Steel by using Taguchi Method, *International Journal of Engineering Research and Technology*, Vol. 1 (6), 2012, pp. 1-5.
16. Nandkumar N. Bhopale, **Raju S. Pawade**, Investigation of Surface Integrity in High-speed Ball End Milling of Cantilever Shaped Thin Plate of Inconel 718, *Journal of Achievements in Materials and Manufacturing Engineering*, Vol. 55 (2), December 2012, pp. 616-622.
17. A. D. Bagawade, P. G. Ramdasi, R. S. Pawade, P. K. Brahmankar, The effects of Cutting Conditions on Chip Area Ratio and Surface Roughness in Hard Turning of AISI 52100 Steel, *International Journal of Engineering Research and Technology*, Vol. 1 (10), 2012, pp. 1-6.
18. Ganesh Kadam, D S N Reddy and Raju S Pawade, Chip Segmentation Behaviour and Surface Topography in High-speed Turning of Titanium alloy (Ti-6Al-4V) with Ecofriendly Coolant, submitted to *International Journal of Machining and Machinability of Materials (IJMMM)* Special Issue on: "Machining of Aerospace Materials", Vol. 13, No. 2-3, pp.113-137, 2013
19. Yogesh S. Gaikhe, Arvind M. Chavan, R. S. Pawade, 3D Surface Characterization of Electrophoretic Deposition Assisted Polishing of Stainless Steel 316L, *Materials and Manufacturing Processes*, Vol. 28, pp.676–682, 2013
20. Mitali S. Mhatre, Sagar U. Sapkal and **Raju S. Pawade**, Electro discharge machining characteristics of Ti-6Al-4V alloy: A grey relational optimization, International Conference on Advances in Manufacturing and Materials Engineering, AMME, *Procedia Materials Science, Elsevier* Vol. 5, pp. 2014 – 2022, 2014
21. Prasad Pawase, P.K. Brahmankar, **R.S. Pawade**, R. Balasubrahmaniam, Analysis of Machining mechanism in Diamond turning of Germanium lenses, International Conference on Advances in Manufacturing and Materials Engineering, AMME, *Procedia Materials Science, Elsevier* Vol. 5, pp. 2363 – 2368, 2014
22. Nandkumar N. Bhopale, Suhas S. Joshi & **Raju S. Pawade**, Experimental Investigation into the Effect of Ball End Milling Parameters on Surface Integrity of Inconel 718, *Journal of Materials Engineering and Performance*, ASM International, 2015, Vol 23 (12), pp. 4163-4176.

23. Ganesh Sonawane, Raju Pawade, Analysis of cutting forces in high speed turning of Inconel 718 by using ceramic tools, International Journal of Research and Scientific Innovation, Vol. 1, Issue 6, 2014, pp. 107-112.
24. Nandkumar N. Bhopale, **Raju S. Pawade**, Effect of ball end milling parameters on surface and subsurface of Inconel 718, International Journal of Basic and Applied Sciences, Vol. 4, Issue 1, 2015, UImpact Factor: 1.201
25. Nandkumar N. Bhopale, **Raju S. Pawade**, Modelling and analysis of ball end milling parameters of Inconel 718 cantilever using RSM, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 12, 2014, pp. 18336-18343, Impact Factor:1.682
26. N.G.Patil, Ameer Asem, **R. S. Pawade**, D.G. Thakur, P.K. Brahmankar, Comparative study of high speed machining of Inconel 718 in dry condition and by using compressed cold carbon dioxide gas as coolant, Procedia CIRP Vol. 24, 2014, pp. 86 – 91
27. Sunil Sanap, Sagar Sakharkar, Pankaj Sonawane, **Raju Pawade**, Multi-objective optimization of ball end milling of Inconel 718 using Utility concept, International Journal of Mechanical Engineering and Material Science, Vol. 8 (1), January-June 2015, pp. 27-33, ISSN: 0974-584X
28. Ramesh Guttedar, Amit Patil, A. A. Jadhav, V. B. Satve, **Raju Pawade**, Design and Development of Horn and Slurry Circulation System in Ultrasonic Machining, International Journal For Technological Research In Engineering (IJTRE), Volume 2, Issue 7, March-2015, ISSN: 2347-4718
29. Mitali S. Mhatre, **Raju S. Pawade**, Sagar U. Sapkal, Fauzia Siddiqui, Prediction of EDM process parameters by using Artificial Neural Network (ANN) - A Prediction Technique, International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014 pp. 29-33, ISSN 2229-5518.
30. Nandkumar N. Bhopale, Nilesh Nikam and **Raju S. Pawade**, Parameter Optimization of Ball End Milling Process on Inconel 718 Using RSM and TLBO Algorithm, Journal for Manufacturing Science and Production, DE GRUYTER, pp. 1-8, DOI 10.1515
31. Nandkumar N. Bhopale, Nilesh Nikam and **Raju S. Pawade**, International Journal of Materials Forming and Machining Processes, 2(2), pp. 1-16, IGI Global, July-December 2015, DOI: 10.4018/IJMFMP.2015070101
32. Nandkumar Bhopale, **Raju Pawade**, Suhas Joshi, Surface quality analysis in ball end milling of Inconel 718 cantilevers by response surface methodology, Proceedings ImechE, Part B: Journal of Engineering Manufacture, 2015, pp. 1-13.
33. Bhagwan F Jogi, Monish Tarekar, Rinul M Dhajekar, **Raju Pawade**, Multi Objective Optimization Using Taguchi Grey Relational Analysis (GRA) for CNC Turning of Poly-ether-ether-ketone (PEEK) Polymer, Polymers & Polymer Composites, Vol. 24, No. 7, 2016, ©Smithers Information Ltd., 2016.
34. Ganesh Kadam, **Raju S. Pawade**, Sustainability modelling and assessment in high-speed turning of Inconel 718, International Journal of Precision Technology, Inderscience, Special Issue on Modelling and Simulation of Precision Machining Processes, Vol. 6, Nos. 3/4, 2016, pp. 249-261.
35. K. A. Jagtap, **R. S. Pawade** and K. V. Giradkar, Investigations on Machined Surface Integrity and Electrochemical behaviour of Co-Cr-Mo Bio-implant Alloy, International Journal of Advanced Design and Manufacturing Technology, Vol. 9/ No. 4, 2016, PP. 51-58, IAU, Majlesi Branch

36. Ganesh Kadam, **Raju S. Pawade**, Surface integrity and sustainability assessment in high-speed machining of Inconel 718 – An eco-friendly green approach, *Journal of Cleaner Production*, Elsevier, Vol. 147, 2017, pp. 273-283.

Note- Publications in colour are selected publications for web resume

National Journal -3

1. Amey Chaudhari, Raju Pawade and Sagar Sapkal, Surface integrity investigations in ball burnishing of 6063 Al alloy, Submitted to *National Journal of Association of Engineers* (Kolkata), Vol. 82, No. 3-4, July-December 2012, pp. 22-33.
2. Rupesh Bangar, Vallabh Sakhare, Aishwarya Mahagaokar, Gopal Chavan, Raju Pawade, Performance analysis in ball nose end milling of preheated HSTR Inconel 600 alloy, *REASON-A Technical Magazine* (ISSN 2277-1654) published by Kalyani Govt. Engineering College, Kolkata, Vol. XI, 2012, pp.13-20.
3. R.S. Pawade and S.B. Bhosale Grey Relational Parameter Optimization in Ultrasonic Machining of Ceramic Composite (Al_2O_3/ZrO_2), *National Journal of Association of Engineers* (Kolkata), Vol. 83, No. 2, April-June 2013, pp. 63-77..

International Conferences/Symposium - 89

- 1 **R. S. Pawade**, B. F. Jogi, An Emerging need to develop industries thorough ERP, Proc. Of the International Conference on e-Manufacturing; An emerging need for 21st Century World Class Enterprises, BHEL and MANIT, Bhopal, 17-19 Nov. 2002.
- 2 **R. S. Pawade**, H. N. Warhatkar, B. F. Jogi, Factories of Future; IT Based Manufacturing, Proc. Of 20th AIMTDR Conference, BIT Mesra, Ranchi, 13-15 Dec. 2002.
- 3 **R. S. Pawade**, S. S. Joshi, M. Rahman, High-Speed Machining of Difficult-to-cut Materials: Superalloys-Inconel 718, Proc. Of the International Workshop on High Speed Machining of Hard Materials, National University of Singapore, 12-13 Nov. 2003.
- 4 Nilesh Kharche, Pawan Pawade, Vivek Gaikhe, **R. S. Pawade**, P. K. Brahmankar, AJM Characteristics of 6061/ Al_2O_3 Metal Matrix Composites, Proc. Of 21st AIMTDR Conference, VIT, Vellore, 20-22 Dec. 2004.
- 5 **R. S. Pawade**, S. S. Joshi, P. K. Brahmankar, M. Rahman, Some Investigations on Surface Integrity of High Speed Turned Inconel 718, Proc. Of 21st AIMTDR Conference, VIT, Vellore, 20-22 Dec. 2004.
- 6 G. Y. Bhide, **R. S. Pawade**, P. K. Brahmankar, N. P. Gulhane, Taguchi Analysis of Dimensional Variation in Grinding of Automotive Bevel Gear, Proc. Of ICPQR-2005, New Delhi.
- 7 **R. S Pawade**, D. K Kamble, S.S. Joshi, P. K. Brahmankar, Analysis of The Influence of EDM Parameters on MRR, Surface Roughness, TWR Of Inconel 718, Proc. Of ISME 2005, New Delhi, 12-14 December, 2005.
- 8 A. A. Karmarkar, S. B. Bhopi, **R. S Pawade**, P. K. Brahmankar, Surface Topography Investigations of High Speed Turned Titanium Alloy, Proc. Of COPEN 2005, 4th National Conference on Precision Engineering, Jadavpur University, Kolkata, Dec. 16-17, 2005.
- 9 C. M. Badole, **R. S. Pawade**, P. K. Brahmankar, Optimization of Tool Wear Parameters in High Speed Turning of Inconel 718, Proc. Of the International Conference on Global

Manufacturing and Innovation (An Advanced Optimization Technology Approach) GMI 2006, CIT, Coimbatore, 27-29 July, 2006.

- 10 Harshad Sonawane, Rahul Nilangekar, **Raju Pawade**, Nitin Banait, Uday Dabade, Study of Influence of Process Parameters of Surface Roughness in Ball Burnishing of (Al 6351) Alloy, Proc. Of the International Conference on Advances in Materials Processing and Characterization (AMPC 2006), Ed. L. Karunamoorthy et al., College of Engineering, Guindy, Chennai, 28-30 August 2006, pp.262-269.
- 11 K. Shambharkar, M. Madhvi, S. Kaskar, **R. S. Pawade**, H. S. Joshi, N. G. Patil, An Investigation of Surface Roughness in Grinding of Al-Al₂O₃ Metal Matrix Composites (MMCs), Proc. Of the International Conference on Advances in Materials Processing and Characterization (AMPC 2006), Ed. L. Karunamoorthy et al., College of Engineering, Guindy, Chennai, 28-30 August 2006, pp. 358-366.
- 12 **R. S. Pawade**, S. S. Joshi, P. K. Brahmkar, M. Rahman, An Investigation of Cutting Forces and Surface Damage in High-Speed Turning of Inconel 718, Proc. Of 7th International Conference on Materials Processing (ACMP) 4-6 Dec. 2006, NUS, Singapore, pp. 220-228.
- 13 P. K. Brahmkar, **R. S. Pawade**, N.G. Patil, An Investigation into Surface Finish in Grinding of Metal Matrix Composites (MMCs) Using Taguchi-Grey Relational Analysis, Proc. Of the International Conference on Materials Processing for Properties and Performance MP³ 2006, Ed. K. A. Khor et al., Institute of Materials, East Asia, December 11-15, 2006, pp. 277-278.
- 14 G. Y. Bhide, **R. S. Pawade**, D. M. Patil, P. G. Khakse, Proc. Of the International Conference on Advances in Materials Processing and Characterization (AMPC 2006), Ed. L. Karunamoorthy et al., College of Engineering, Guindy, Chennai, 28-30 August 2006, pp. 1039-1046.
- 15 Amey Chaudhari, Deepak Karankal, **Raju Pawade**, Experimental Investigation on Abrasive Jet Deburring (AJD) of Al 6351 Aluminium Alloy, IJED Conference, JNTU, Hyderabad.
- 16 Harshdeep Joshi, R. P. Parvekar, R. S. Deshmukh, **R. S. Pawade**, Knowledge Driven Automation of CAD (Modeling) Procedures, Proc. Of 22nd AIMTDR Conference, IIT, Roorkee, 14-16 Dec. 2006.
- 17 Harshad Sonawane, Rahul Nilangekar, **Raju Pawade**, Harshdeep Joshi, Surface Characteristics of 6351 Al Alloy Using Costeffective Ball-Cum-Roller Burnishing Tool, Proc. of 22nd AIMTDR Conference, IIT, Roorkee, 14-16 Dec. 2006.
- 18 P. H. Parkale, **R. S. Pawade**, P. K. Brahmkar, A Study of Cutting Forces and Tool Flank Wear in Hot Machining of HRSA Inconel 718, Proc. Of the Global Conference on CPIE 2007, NIT, Jalandhar, March 22-24, 2007.
- 19 **R. S Pawade**, Suhas S. Joshi, P. K. Brahmkar and J. Ramkumar, Effect of Electrode Shape and Rotation on EDM performance of Inconel 718, Proc. Of International and INCCOM-6 Conference on Future Trends in Composite Materials and Processing, (Eds. Kar et al.,2007), Indin Institute of Technology, Kanpur, 12-14 December, 2007, pp. 966-972.
- 20 **R. S Pawade**, Suhas S. Joshi, P. K. Brahmkar, An Analysis of Machined Surface Topography in High-Speed Machining of Inconel 718, Proc. Of Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007, pp.349-354.
- 21 D. P. Bhamare, P. K. Brahmkar, M. Sadaiah, **R. S Pawade**, Some Studies on Diamond Turning of OFHC Copper, Proc. Of Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007, pp.193-196.

- 22 K. A. Jagtap, **R. S Pawade**, P. K. Brahmanekar, R. Balasubramaniam, Surface Characterisation of Optical Polymers in Ultra Precision Machining, Proc. Of Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007, pp.355-358.
- 23 K.A. Mahajan, M.Sadaiah, P.K.Brahmanekar and **R.S.Pawade**, Effect of Tool Waviness on Component in Diamond Turning, Proc. Of Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007, pp.189-192.
- 24 P. H. Parkale, **R. S. Pawade**, P. K. Brahmanekar, A Study of Cutting Forces and Tool Flank Wear in Hot Machining of HRSA Inconel 718, Proc. Of the International Conference on Advances in Material Processing Technology, AMPT, Dyjon, Korea, 2007.
- 25 A. A. Chavan, **R. S. Pawade**, P. K. Brahmanekar, Surface Topography Assessment in Turning of Ti-6Al-4V Alloy using Response Surface Method, Proc. Of the International Conference on Frontiers in Design and Manufacturing Engineering (ICDM-08), 2007, pp. 210-216.
- 26 A. A. Chavan, **R. S. Pawade**, P. K. Brahmanekar, Process Parameter Optimization of Surface Roughness in CNC Turning of Polyetheretherketone (Peek), in Proc. 25th Annual Meeting of the Polymer Processing Society (PPS-25), March 1-5, 2009.
- 27 S. B. Bhosale, **R. S. Pawade**, P. K. Brahmanekar, Surface Roughness Evaluation in CNC Turning of Polymer Nylon-6, in Proc. 25th Annual Meeting of the Polymer Processing Society (PPS-25), March 1-5, 2009.
- 28 Harshad Sonawane, Suhas S. Joshi, N. N. Bhopale, Raju S. Pawade, Analysis and Modeling of Cutting Forces in Ball End Milling of Superalloy Inconel 718, in Proc. International Conference on Advances in Mechanical Engineering, SVNIT, Surat, August 3-5, 2009.
- 29 **Raju S. Pawade**, D. S. N. Reddy, Ganesh S. Kadam, High-speed Turning of Titanium alloy (Ti-6Al-4V) using Water Vapour as a Coolant, International conference on Current Trends in Technology, NUiCONE 2010, Institute of Technology, Nirma University, Ahmedabad, 2010.
- 30 **R. S. Pawade**, Ashis Abhyankar, P. B. Brahmanekar, Girish Joshi, Yogesh Gaikhe, Some Investigations on Electro-polishing of Stainless Steel 420, Second International Conference on Production and Industrial Engineering, CPIE 2010, 2010.
- 31 Shrikusna Bhosale, **R. S. Pawade**, P. K. Brahmanekar, Some Investigations into Ultrasonic Machining of Alumina Zirconia Ceramic Composite, 3rd International and 24th AIMTDR Conference, COE, Vizag, 2010.
- 32 **R. S. Pawade**, Mahesh Rayate, Prasad Ingale, Sameer Paritkar, Some Investigations into Electro-phorretic Polishing of 304 Stainless Steel, 3rd International and 24th AIMTDR Conference, COE, Vizag, 2010.
- 33 S. S. Bhadane, **R. S. Pawade** and B. F. Jogi, Taguchi Optimization of Surface Integrity Parameters in High Speed Machining of Titanium Alloy (Ti-6Al-4V), Proc. Of the 1st International Conference on Modern Trends in Industrial Engineering, November 17-19, 2011, S.V. National Institute of Technology, Surat – 395 007, Gujarat, India.
- 34 Ketan A. Jagtap and **Raju S. Pawade**, A Comparative Analysis of Surface Topography in Ultra Precision Machining of Optical Polymer, International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 7, College of Engineering Pune, Dec. 10-11, 2011.
- 35 Rajendra H. Pawar and **Raju S. Pawade**, Study of micro deformation layer characteristics in dry high speed machining of Ti-6Al-4V alloy, International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 7, College of Engineering Pune, Dec. 10-11, 2011.
- 36 Yogesh Gaikhe, Arvind Chavan, **Raju Pawade**, 3D Surface Characterization of Electrophoretic Deposition Assisted Polishing of SS316L, International Conference on

- Intelligent Manufacturing Systems, ICMS 2012, SASTRA UNIVERSITY (Shanmugha Arts Science Tech. and Research Academy) Thirumalaisamudram, Thanjavur – 613401Tamilnadu,India,Feb17-18,2012.
37. Pramod Yadav, Sandip Babar, Pankaj Chitalkar, Sandeep Huddedar, **Raju Pawade**, Effect of Cooling Environment on Grinding Performance of Nickel Based Superalloy Inconel 718, International Conference on Intelligent Manufacturing Systems, ICMS 2012, SASTRA UNIVERSITY (Shanmugha Arts Science Tech. and Research Academy) Thirumalaisamudram, Thanjavur – 613401Tamilnadu,India,Feb17-18,2012.
 37. Ketan A. Jagtapand **Raju S. Pawade**, and R. Balasubramaniam, Some Investigations on surface characteristics in PrecisionTurning of Nylon and Polypropylene,Proceedings of International conference on Recent Trends in Engineering & Technology (ICRTET-2012) at K B Jain COE, Chandwad, Nashik , March 23-25, 2012.
 38. R. H. Pawar, R. S. Pawade, Surface Integrity Analysis in Dry High Speed Turning of Titanium Alloy Ti-6Al-4V, Proc. Of International Conference on Trends in Industrial and Mechanical Engineering, Dubai, UAE, 24-25 March 2012
 38. Nandkumar N. Bhopale, **Raju S. Pawade**, Effect of Cutting Environment on Surface Integrity in High-speed Ball End Milling of Inconel 718, Proceedings on 21st International Symposium on Processing and Fabrication of Advanced Materials (PFAM XXI), IIT Guwahati, 10-13 December, 2012, Eds. Robi et al, pp.1025-
 39. Nandkumar N. Bhopale, **Raju S. Pawade**, Analysis of machined Surface Quality in High-speed Ball End Milling of Inconel 718, Proceedings of 4thInternationaland 25thAll India Manufacturing Technology, Design and Research Conference, AIMTDR, Jadavpur University, Kolkata, 14-16 December, 2012, Eds. B. Bhattacharya et al, pp.----
 40. Nandkumar N. Bhopale, **Raju S. Pawade**, Investigation of Surface Integrity in High-speed Ball End Milling of Cantilever Shaped Thin Plate of Inconel 718, Proceedings on GCMM, 2012, AUT University, Auckland, 28-30 November 2012, Eds. Singanmeni, pp. 210-217
 41. Ganesh Kadam, **Raju Pawade**, Analysis and Modelling of Surface Integrity of Inconel 718 machined using different Cooling Environment,Proceedings on International Conference on Innovations in Design and Manufacturing and International Design Workshop (InnDeM 2012) December 5 – 7, 2012, PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur, pp.---
 42. Ketan A. Jagtapand Raju S. Pawade, Effect of Machining Environment on Surface Integrity in Precision Turning of Co-Cr-Mo Bio-Implant Alloy, Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, NIT Calicut, Dec. 13-15, 2013, pp. 495-500.
 43. Ganesh Kadam, Raju Pawade, Surface Topography Assessment in High-Speed Turning of Inconel 718 under Different Machining nvironments, International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, NIT Calicut, Dec. 13-15, 2013, pp. 367-374.
 44. Nilesh Nikam, Swapnil Harel, Indrajit Powar, Rahul Konduskar, Nandkumar Bhopale and Raju Pawade, Surface Integrity Optimization of Ball End Milling of Inconel 718, International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, NIT Calicut, Dec. 13-15, 2013, pp. 404-410.
 45. Abhishek Bhide, Maruti Nikam, Vilas Katare, Nikhil Khatekar,Raju Pawade and P.K. Brahmankar, Surface Quality Evaluation in Electrophoretic Deposition Assisted Polishing of

- AISI 304 Steel, Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, NIT Calicut, Dec. 13-15, 2013, pp. 829-833.
46. Haseen Shaikh, Aditi Shinde, Nitesh Pathode, Deven Dere, **R.S. Pawade** and P.K. Brahmanekar, Performance Analysis of Powder Mixed EDM of Al-20% SiC Metal Matrix Composite, Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, NIT Calicut, Dec. 13-15, 2013.
 47. **Raju Pawade**, Kiran More, Surface Delamination Analysis in End Milling of GFRP Composite, Proc. of International Conference on Design, Manufacturing and Mechatronics, ICDMM 2014, Trinity College of Engineering, Pune, 9-10 January 2014.
 48. Karansagar Giradkar, Nikhil Khatekar, **Raju Pawade**, Multi attribute optimization in Ball End Milling of Inconel 600 using AHP and TOPSIS, Proc. of 3rd International Conference on Recent Trends in Engineering and Technology, ICRTET' 2014, K B Jain College of Engineering Chandawad, Nashik, 28-30 March 2014, pp. 449-453.
 49. Mitali S. Mhatre, Sagar U. Sapkal and **Raju S. Pawade**, Electro discharge machining characteristics of Ti-6Al-4V alloy: A grey relational optimization, Proc. of International Conference on Advances in Manufacturing and Materials Engineering, National Institute of Technology, Surathkal, Karnataka, 28-30 March 2014, pp. 1-9
 50. Prasad Pawase, P.K. Brahmanekar, **R.S. Pawade**, R. Balasubrahmaniam, Analysis of Machining mechanism in Diamond turning of Germanium lenses, Proc. of International Conference on Advances in Manufacturing and Materials Engineering, National Institute of Technology, Surathkal, Karnataka, 28-30 March 2014, pp. 1-6
 51. Nandkumar N. Bhopale, **Raju S. Pawade**, Surface Integrity Studies In Ball End Milling Of Thin Shaped Cantilever Inconel 718, Proceedings of the 8th ASME 2014 Manufacturing Science and Engineering Conference, June 09-13, 2013, Detroit, Michigan, USA, MSEC2014-4015, pp. 1-10
 52. Babasaheb Shinde, Julfekar Arab, Lalitrao Amrutsagar, **Raju Pawade**, P.K. Brahmanekar, Some Investigations into Powder Mixed Electric Discharge Machining of Metal Matrix Composite Al 6061/Al₂O₃/24P, ICMMM 2014 International Colloquium on Materials, Manufacturing and Metrology, Indian Institute of Technology, Madras, 8th – 9th August 2014.
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62. Ketan Jagtap, **Raju S. Pawade**, On the influence of cutting forces in precision turning of Co-Cr-Mo Bio-implant alloy, Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 9, Indian Institute of Technology, Powai, Mumbai, Dec. 9-12, 2015, pp.
63. Shraddha Rangari, Madhuri Choudhari, Mahesh Chavan, **Raju S. Pawade**, Vilas Shinde, Assessment of surface topography in Electro-phoretic Deposition assisted polishing of internal bore of AISI 304 steel , Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 9, Indian Institute of Technology, Powai, Mumbai, Dec. 9-12, 2015, pp.
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66. Kiran More, **Raju Pawade**, Some studies to optimize and improve the Robotic Roller Hemming process, Proc. of International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 9, Indian Institute of Technology, Powai, Mumbai, Dec. 9-12, 2015, pp.
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- Manufacturing Technology, Design and Research Conference (AIMTDR 2016) 16th–18thDecember, 2016, College of Engineering Pune, pp. 209-213
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 75. Badal Pandharkar, Abhijeet Salunke, Shivprasad Mawal and **Raju Pawade**, Analysis of Surface Quality and Dimensional Accuracy in Cylindrical Grinding of EN24 Steel, Proc. of 6thInternational & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2016) 16th–18thDecember, 2016, College of Engineering Pune, pp. 1215-1218.
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 84. R. Shinde, N. Patil, D. Raut, R. Pawade, P. Brahmanekar, Experimental Investigations into Powder-Mixed Electrical Discharge Machining (PMEDM) of HCHCr D2 Die Steel, Proc. of ICCASP/ICMMD-2016, Advances in Intelligent Systems Research, 20-21 December 2016, Vol. 137, Pp. 298-303, © 2017 Springer Atlantis Press, B. Iyer, S. Nalbalwar and R. Pawade (Eds.), ISBN: 978-94-6252-305-0 doi:10.2991/iccasp-16.2017.47
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 88. Pranita Wagh, Sandeep Desai, Raju Pawade, Hemant Warhatkar, Analysis of Surface Roughness and Microhardness of Magnesium Bioimplant Alloy in Face Milling, in Proc. International Conference on Manufacturing Excellence 3 & 4 March 2017, , KK Wagh COE, Nashik.

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- 2 **R. S. Pawade**, H. N. Warhatkar, An innovatrive software for designing of spur and helical gears using IS 4460 standards, Proc. of National conference on World Class Manufacturing systems (NCMS-2000), B. I. E. T. Jhansi (UP), 18-19 August, 2000.
- 3 **R. S. Pawade**, B. F. Jogi, Octahedral Hexapod Machine-Revolutionary Machine Tool for the Flexible Manufacturing Systems, Proc. Of National conference on World Class Manufacturing systems (NCMS-2000), B. I. E. T. Jhansi (UP), 18-19 August, 2000.
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- 7 B. F. Jogi, V. G. Sargade, **R. S. Pawade**, An Emerging Need to Develop Industries through ERP, IC@M, 2002
- 8 **R. S. Pawade**, B. F. Jogi, Six Sigma: A Dynamic Management Tool to Control the Quality of Processes, Proc. Of National Conference on Quality Engineering and Management (NCQE-2003) by QFCI, Kumarguru College of Technology, Cimbatore and Coimbatore Management Association, TN, 4-6 Jan. 2003.
- 9 **R. S. Pawade**, M. Sadaiah, P. Meshram, An overview of Recent Trends in Coordinate Measurement Machines (CMMs), Proc. Of the National Conference on Automation in Manufacturing (NCIOM-2003), Raison College of Engineering, Nagpur, 8-9 March, 2003.
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- 11 Mahesh Chakradeo, **R. S. Pawade**, Reconfigurable Manufacturing Systems (RMCs); A Present Status, Proc. Of the National Conference on Advanced Manufacturing and Robotics, CMERI, Durgapur, 10-11Jan. 2004.
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- 13 **R. S. Pawade**, Durgesh Mandwale, A review of Laser Assisted Machining of Silicon Nitride (Si_3N_4) Ceramics, Proc. Of the National Conference on Emerging Trends in Mechanical Engineering, ETME-2005, NIT, Kurukshetra, 29-31 March, 2005.
- 14 Sushil Khatate, **R. S. Pawade**, D. D. Choudhary, Condition Monitoring using Vibration Signature Analysis; A Precision Maintenance Tool, Proc. Of the National Conference on Advances in Engineering Design (AED 2005), BAIT, Sathyamangalam, Coimbatore, TN, Eds. I. Rajendran, K. Balmurugan, 29-30 April, 2005.
- 15 **R. S. Pawade**, Nitin Banait, Surface Roughness Analysis in Surface Grinding of Inconel 601 using Design of Experiments, Proc. of CONQUEST-2006, Hyderabad, 15-17 January, 2006.

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- 17 Ajaj Sain, Nikhil Paranjape, **Raju Pawade**, Minimal Quantity Lubrication (MQL): Approach Towards Green Machining, Proc. Of the National Seminar on Eco-Friendly Technologies and Challenges for Mechanical Engineers, SGSITS, Indore, 27-28 January, 2006.
- 18 **Raju S. Pawade**, Amey S. Choudhari, Sagar U. Sapkal, Harshdeep S. Joshi, Surface Integrity Investigations in Ball Burnishing of 6063 Al Alloy, Proc. Of National Conference on Trends in Computer Aided Design and Engineering TACADE 2007, Kalyani College of Engineering, Kalyani, WB, February 16-17, 2007, pp.
- 19 **R. S. Pawade**, D. S. N. Reddy, P. K. Brahmankar, Grey Relational Parameter Optimization in Ball Burnishing of 6063 Al alloy, Proc. Of National Conference on Trends in Advanced Manufacturing, Fr. Conceicao Rodrigues College of Engineering, Mumbai, October 19-20, 2007, pp. 20-24.
- 20 D. S. Mankar, **R. S. Pawade**, Effect of Surface Roughness on Fatigue Life of Machined Component of Inconel 718, Accepted for presentation in National Conference on Advances in Mechanical Engineering, MIT, Aurangabad, 1-3 March, 2009.
- 21 C. M. Badole, **R. S. Pawade**, Behaviour of CVD PVD Coated Carbide Tools in High Speed Turning of Inconel 718, Proc. Of the National Conference on World Class Manufacturing (WCM 2009), Amrutvahini College of Engineering Sangamner, 26-27 February, 2009.
- 22 Madan Kulkarni, **Raju S. Pawade**, Bhagawan F. Jogi, High speed machining of titanium alloy (ti-6al-4v) with coated carbide tool, Proceedings of TFMS 2012 National Conference on Thermal, Fluid and Manufacturing Science January 20 – 21, 2012, Surat, Gujarat, India
- 23 Nitesh E. Chaudhari, Aniket A. Shetye and **Raju S. Pawade**, Bio-chemical Micro machining: A Review, Proceedings of National Conference on Advances in Chemical and Mechanical Engineering, NCACME-2012, January 27-28, 2012, Gharada Institute of Technology, Khed.
- 24 Ketan Jagtap, **Raju Pawade**, Diamond Turning of Optical Polymers, Proceeding Of National Conference on “Innovations In Mechanical Engineering” at Sinhgad Institute Of Technology, Lonavala, Pune, Maharashtra. 410 401, April 19-20 2012
- 25 Swamini Chopra, Sandeep Desai, Hemant warhatkar, Raju Pawade, Energy Considerations in Metal Machining, Proceedings of ENACT 2014- Energy : Needs and Current Trends- 2014, Dr. B. A. Tech. University, Lonere, 19-20 December 2014
- 26 Kalpana Jogdand, Kiran More, Ganesh Dhurde and Raju Pawade, Determination of Specific Cutting Energy in Hot Machining of Inconel 718, Proceedings of ENACT 2014- Energy : Needs and Current Trends- 2014, Dr. B. A. Tech. University, Lonere, 19-20 December 2014
- 27 Sagar N. Sakharkar, Ganesh S. Kadam, Raju S. Pawade, Prakash K. Brahmankar, Sustainability Assessment to Minimise Energy Consumption in Green Machining, Proceedings of ENACT 2014- Energy : Needs and Current Trends- 2014, Dr. B. A. Tech. University, Lonere, 19-20 December 2014
- 28 Prasad Pawase, P.K. Brahmankar, **R.S. Pawade**, Multi Objective Optimization of Surface Roughness and Slope Error in Diamond Turning of Germanium Lense using Taguchi Grey Relational Analysis, Proceedings of National Conference on Statistical Analysis and Computing in Engineering and Management, NC-SACEM, 2014, DY Patil COE, Akurdi, Pune, August 7-8 2014.

- 29 Nandakumar Nagothkar, Shivprasad Mawal, **Raju Pawade**, Multi Attribute Decision Making In Electro-Discharge Machining of SKD11 Steel Using Saw Optimization Method, National Conference on Recent Trends in Mechanical Engineering (NCRTME2016), 4-5 July 2016, WCE, Sangli, India
- 30 Bhole Jyotsna, Gharat Umesh, Nikam Manoj, Yewale Nilesh, **Pawade Raju**, Multi-Objective Optimization In End Milling of GFRP Composite Using Weighing Product Method (WPM), National Conference on Recent Trends in Mechanical Engineering (NCRTME2016), 4-5 July 2016, WCE, Sangli, India
- 31 Vishal B. Potadar, Ranjeet Kadam, Ganesh S. Kadam, **Raju S. Pawade**, Determination of Specific Cutting Energy In Green Machining of Inconel 718, National Conference on Recent Trends in Mechanical Engineering (NCRTME2016), 4-5 July 2016, WCE, Sangli, India
- 32 Abhishek Patil, Bhushan Nikam, Abhishek Ghanghav, **Raju Pawade**, Optimization of Process Parameters in Drilling of Al 6061/SiC Composite Using SAW Method, National Conference on Recent Trends in Mechanical Engineering (NCRTME2016), 4-5 July 2016, WCE, Sangli, India.

Participated in International/National Conferences

- Presented a paper on ‘AJM Characteristics of 6061/Al₂O₃ Metal Matrix Composites’, 21st AIMTDR Conference, VIT, Vellore, 20-22 Dec. 2004.
- Presented a paper on ‘Some Investigations on Surface Integrity of High Speed Turned Inconel’ 718, Proc. of 21st AIMTDR Conference, VIT, Vellore, 20-22 Dec. 2004
- Presented a paper on ‘Surface Topography Investigations of High Speed Turned Titanium Alloy’, 4th National Conference on Precision Engineering, COPEN 2005, Jadavpur University, Kolkata, Dec. 16-17, 2005
- Presented a paper on ‘An Investigation of Cutting Forces and Surface Damage in High-Speed Turning of Inconel 718’, 7th International Conference on Materials Processing (ACMP), NUS, Singapore, 4-6 Dec. 2006
- Presented a paper on ‘An Investigation into Surface Finish in Grinding of Metal Matrix Composites (MMCs) Using Taguchi-Grey Relational Analysis’, International Conference on Materials Processing for Properties and Performance MP³ 2006, Institute of Materials, East Asia, December 11-15, 2006
- Presented a paper on ‘An Analysis of Machined Surface Topography in High-Speed Machining of Inconel 718’, Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007
- Presented a paper on ‘Surface Characterisation of Optical Polymers in Ultra Precision Machining’, Fifth International Conference (COPEN 2007), College of Engineering, Trivendrum, December 13-14, 2007
- Presented a paper on 'Surface Integrity Studies In Ball End Milling Of Thin Shaped Cantilever Inconel 718' 8th ASME 2014 Manufacturing Science and Engineering Conference, Detroit, Michigan, USA, MSEC2014-4015, June 09-13, 2013
- Session chair for one session in International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 8, National Institute of Technology, Calicut, Dec. 10-12, 2013

- Session chair for two sessions in International Conference on Precision, Meso, Micro and Nano Engineering, COPEN 9, Indian Institute of Technology, Powai, Mumbai, Dec. 9-12, 2015
- Session chair for one session in 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2016) 16th–18th December, 2016, College of Engineering Pune

Courses Taught

S. N.	Course Title	Level	Year
1.	Engineering Drawing I	UG (First year)	1992,93,97
2.	Engineering Drawing II	UG (First year)	1992,93,97
3.	Production Technology I	UG (Second year)	1994, 95
4.	Structure and properties of Engineering materials	UG (Second year)	
5.	Production Technology II	UG (Third Year)	1997, 98,99
6.	Manufacturing Processes II	UG (Third Year)	1994, 95
7.	Engineering Metallurgy	UG (Third Year)	1998
8.	Tool Engineering	UG (Final Year)	
9.	Elements of Project Management	UG (Third Year)	
10.	CNC and Tool Design	UG (Third Year)	
11.	Microprocessor and Numerical Control	UG (Third Year)	1999, 2000
12.	Tool Condition Monitoring	UG (Final Year)	
13.	Project Management and Operation Research	UG (Final Year)	2000, 01, 02
14.	CNC and Adaptive Control	PG	2002, 03
15.	Flexible Manufacturing Systems	PG	
16.	Sensors in Manufacturing	PG	
17.	Material Removal Processes/Theory of Machining	PG	2011, 12, 13, 14, 15
18.	CAD CAM	UG	2000, 01, 02,12
19.	Theory of Machining	PG	2014
20.	Quantitative Techniques in Project Management	UG	2012, 2013
21.	Sheet Metal Products and Processes	UG	2012, 2013
22.	Basic Mechanical Engineering	UG	2011, 12, 13, 14
23.	Energy and Environmental Engineering	UG	2012, 13, 14
24.	Ultra-Precision Machining	PG	2014,15,16

Invited Lectures

- 1 Coordinate Measuring Machines ‘CMM’ – A lecture delivered at Two-Week AICTE-ISTE Short Term Training Programme on ‘Opportunities and Challenges in High Precision Manufacturing; Vision 2020’ at Dr. Babasaheb Ambedkar Technological University, Lonere, November 2002.
- 2 Safety Aspects of Machinery and Toolings – A lecture delivered at Four Day Training Programme on ‘Maintenance of Machinery and Equipments, for the Laboratory Assistants and Workshop Staff at Dr. Babasaheb Ambedkar Technological University, Lonere, March 2002.

- 3 Machining of difficult-to-machine material – Superalloy Inconel 718, A lecture delivered at Five Day STTP on ‘Machining of Advanced Materials, at VJTI, Mumbai, February 2009.
- 4 Non conventional machining and different coating techniques, A lecture delivered at DKTE Institute Ichalkaranji for M. Tech. students (9 Hours) during 9-10th October 2010.
- 5 Electro-discharge Machining Theory and practice-A lecture delivered at Two Day Workshop on ‘Electrodischarge Machining, at R I T, Sakharale, March 2011.
- 6 Manufacturing Optimization using Taguchi Methods –A lecture delivered at Two-Week AICTE-FDP on ‘Nanotechnology –Opportunities and Challenges’ at Dr. Babasaheb Ambedkar Technological University, Lonere, June 10-21, 2013.
- 7 Machining Characteristics of Superalloys- Inconel 718, A lecture delivered in One week content updating training programme on 'Advances in Manufacturing Processes, Systems and Materials' (AMPSM) sponsored by MSBTE, Mumbai on 28th Dec., 2012 at G. P. Nashik.
- 8 Product and Process Optimization using Taguchi Designs: A lecture delivered in One week STTP on ‘Advances in Manufacturing processes, at SVERI College of Engineering, Pandharpur, May 13, 2015.
- 9 Product and Process Optimization using Taguchi Designs: A lecture delivered in Two day workshop on Research Methodology at Walchand College of Engineering, Sangli, April 2015.
- 10 Optimization of Manufacturing Processes, A lecture delivered in STTP on Advances in Manufacturing Technologies and Management (AMTM) at Government Polytechnic Nashik,11th January 2016.
- 11 Machining of Aspheric Lenses, A lecture delivered in STTP on Advances in Manufacturing Technologies and Management (AMTM) at Government Polytechnic Nashik,11th January 2016.

Short term Courses/Seminar/Workshop attended

- 1 Winter school on “ Total Quality Management” at SPCE, Andheri, Mumbai, 1998
- 2 SERC school on “RAM in Manufacturing” at IIT, Kharagpur, 1998
- 3 Winter school on “Computer Fundamentals and Office Automation” at KIT’s College of Engineering, Kolhapur, 1999
- 4 Winter school on “Education Technology” at Dr. Babasaheb Ambedkar Technological University, Lonere, 1999
- 5 Winter school on “Design for Manufacturability” at Regional Engineering College, Warangal, 1999
- 6 A four day course on “Synergogy for improving Teaching and Learning Skills, Conducted by Scientific Methods”, USA at Dr. Babasaheb Ambedkar Technological University, Lonere
- 7 ISTE Annual Convention at MACT, Bhopal, 1998
- 8 ISTE Maharashtra-Goa section Annual Convention at CWIT, Pune, 1999
- 9 QIP Short Term Course on Advanced Machining Processes, at IIT, Kanpur, 18-23 October, 2004.
- 10 CEP Two Day Course on Manufacturing Optimization, at IIT, Mumbai, 18-19 December, 2007.
- 11 One day National Seminar on ‘Emerging Trends in Tooling For Plastics’ at DJ Sanghvi College of Engineering, Mumbai on 15th November 2008.
- 12 One Week CEP on Metal Forming at SVNIT, Surat during 22-26 December 2014.

- 13 Two days Faculty Development Programme on Pedagogy at Dr. Babasaheb Ambedkar Technological University, Lonere, 29-30 December 2014
- 14 Four days Continuing Education Programme on Solidification, Welding and Advanced Casting, at IIT, Mumbai, 28-31 October, 2015.
- 15 Two days workshop on Migration to Free and Open ware Software, at Dr. Babasaheb Ambedkar Technological University, Lonere, 6-7 January 2016
- 16 One Week TEQIP- CEP on ‘Analysis of Research Problems through Design of Experiments’ at IIT Powai, Mumbai, 13-17 August 2016.

Organized Conferences/ Workshops/ Schools

- 1 Organized a Four Day Training Programme on ‘Maintenance of Machinery and Equipments, for the Laboratory Assistants and Workshop Staff at Dr. Babasaheb Ambedkar Technological University, Lonere, March 2002.
- 2 Organized a Two-Week AICTE-ISTE Short Term Training Programme on ‘Opportunities and Challenges in High Precision Manufacturing; Vision 2020’ at Dr. Babasaheb Ambedkar Technological University, Lonere, November 2002.
- 3 Organized a One Week TEQIP-Short Term Training Programme on ‘Advanced in Materials and Manufacturing Processes’ at Dr. Babasaheb Ambedkar Technological University, Lonere, June 2011.
- 4 Organized a One Week TEQIP- CEP on ‘Interdisciplinary aspects in modeling of manufacturing processes’ at IIT Powai, Mumbai, 2-6 November 2013.
- 5 Organized a One Week TEQIP II -Short Term Training Programme on ‘Developments in Welding Technology’ at Dr. Babasaheb Ambedkar Technological University, Lonere, 8-12 March 2016.
- 6 Organized a One Week TEQIP- CEP on ‘Analysis of Research Problems through Design of Experiments’ at IIT Powai, Mumbai, 13-17 August 2016.
- 7 Organized First International Conference on Materials, Manufacturing and Design Engineering iCMMMD 2016 during 20-21 December 2016 as organizing secretary.

Expert Lecture Organised

1. Competency Skills and SAE BAJA Guidelines, by Sanjay Chopane, Manager, R&D, Eaton Technologies, Pune, November 2013
2. RamaGopalon Diamond Turning - Opportunities and Challenges
3. Madhav Kadam Automotive lighting system designs and studio

Knowledge of PC/Software

1. MS Office (Word, Excel, PPT)
2. MINITAB
2. STATGRAPHICS
3. AUTOCAD
4. DESIGN EXPERT

Sponsored Projects

- MODROBS - Modernization of Workshops in 1997-2000

Grant received and consumed – Rs. 14 Lakhs

- UGC- MRP – Analysis and modeling of Electrophoretic polishing of stainless steel and ceramics

Grant Sanctioned – 6.58 Lakhs

Date of commencement- August 2011 to July 2014

Consultancy Work

- Machining characteristics of EN31 steel in hard turning – 0.35 Lakhs
- Mukand Steel, Kalwa
- Venus Industries, Mumbai

Academic Interactions with Other Institutions/R&D

1. Veer Jijamata Technological Institute, Matunga, Bombay, Mumbai
2. Indian Institute of Technology, Powai, Bombay, Mumbai
3. DKT Institute of Engineering and Technology, Ichalkaranji, MS
4. K. K. Wagh College of Engineering Reasersch and Technology, Nasik
5. Rajarambapu Institute of Technology, Sakharale
6. Walchand College of Engineering, Sangli

Industries visited

Sr. No.	Name of Industry with address	Accompanying students	Purpose	Month and year
1	Bhabha Atomic Research Centre, Trombay, Mumbai	B. Tech. (5) M.Tech. (1)	B. Tech. Project work M. Tech. Project work Sponsored research project	1997-98 1998-99 2007 2004-05
2	Bharat Gears Limited, Bharat Gears Ltd. Kausa Shil, Shilphata, Distt. Thane-400 612 (Maharashtra) Phone: 91.22.25352692, 25352034 Fax: 91.22.25351651 Email : info@bglindia.com	M.Tech. (4)	M. Tech. Project work	2005
3	Mukand Limited Dighe Post Office, Thane Belapur Road, Kalwa, Thane – 400605 91)-22- 21727500,21727346,21727700	B. Tech. (8)	B. Tech. Project work	2000-01
4	CP Tools, Mulund, Bombay	B. Tech. (3)	B. Tech. Project work	1998-99

5	Mahindra Composites, Mangaon, Raigad	B. Tech. (4)	B. Tech. Project work	2000-01
6	Deepak Fertilizers and Petrochemicals Ltd, Kalamboli, Thane	M.Tech. (1) B. Tech. (3)	M. Tech. Project work B. Tech. Project work	2005 2005-06
7	Cummins Limited, Pune	M.Tech. (1)	M. Tech. Project work	2009
8	Cipla Limited Rasayani Industrial Area, Patalganga	B. Tech. (35)	Industrial Visit	2012
9	Wellspun Maxsteel Limited At. Po. Salav, Dist. Raigad	B. Tech. (35)	Industrial Visit	2011
10	Kisan Mouldings Limited Plot No. 69/70, MIDC Dhatav, Tal. Roha, Dist. Raigad 402 116	B. Tech. (3)	B. Tech. Project work	2012
11	Nashik Engineering Cluster NEC, "Sahastrarashmi" C-10, MIDC AMBAD, NASIK – 422 010. Maharashtra.(INDIA) Phone No.: +91 253 6699200. TeleFax No.: +91 253 6699222.	M. Tech. Manufacturing Engg. (15 Students)	Industrial Visit	28 th March 2013
12	ARTISAN INSTITUTE OF TECHNOLOGY NEC, C-10, MIDC, Ambad, Nashik-422 010, Contact:- +91-253-6455699, 6515197, 2374804, Mobile:- +91 9960749992	M. Tech. Manufacturing Engg. (15 Students)	Industrial Visit	28 th March 2013
13	Accurate Engineering Company Pvt. Limited Calibration Division 1, Plot No. AM 31, Udyog Bhavan, Satpur Industrial area, Nashik Ph: 0253 2351514	M. Tech. Manufacturing Engg. (15 Students)	Industrial Visit	28 th March 2013
13	Schneider Electric Limited, Satpur Industrial area, Nashik	Faculty Visit	Industrial Visit	29 th March 2013
14	Mechvac Limited, Navi Mumbai	Faculty Visit	MTP Supervision	November 2013

15	Mechasoft Ltd, Ichalkaranji	M. Tech. Manufacturing Engg. (17 Students)	Industrial Visit	16 March 2014
16	FIE Spherotech, Ichalkaranji	M. Tech. Manufacturing Engg. (17 Students)	Industrial Visit	16 March 2014
17	Autoline, Ichalkaranji	M. Tech. Manufacturing Engg. (17 Students)	Industrial Visit	16 March 2014
18	Michigan University, Ann Arbor, USA	Faculty	ASME Conference	11 June 2014
19	Accurate Ltd., Pune	B. Tech. Mechanical (82 Students)	Industrial Visit	27 August 2016
20	Aditya Engineering Ltd, Pune	B. Tech. Mechanical (82 Students)	Industrial Visit	27 August 2016
21	DIPEX 2017	A state level project exhibition	Judge for the Manufacturing section	17-20 March 2017
22	Machine Tool Expo Pune	M. Tech. Students (20)	Exhibition	29 Sept. to 2 October 2017

Reviewer

1. International Journal of Advanced Manufacturing Technology, (Springer-Verlag, London) since 2010.
2. Journal of Materials and Manufacturing Processes, (Taylor and Francis Publication, London) since 2010.
3. Proceedings of the Institution of Engineers IMechE UK Journal of Engineering Manufacture, Part B (Professional Engineering Publishing, UK) since 2012
4. Journal of Manufacturing Processes, (Elsevier Publications, London) 2014
5. International conference on Production and Industrial Engineering CPIE 2010.
6. ASME 2012 International Manufacturing Science and Engineering Conference MSEC2012 June 4-8, 2012, Notre Dame, Indiana, USA
7. ASME 2014, International Manufacturing Science and Engineering Conference MSEC2014 June 9-13, 2014, Detroit, Michigan, USA
8. International Research Journal of Engineering Science, Technology and Innovation from intersejournals.com
9. 6th International & 27th All India Manufacturing Technology, Design and Research Conference” during 16th - 18th December 2016, COE Pune, India
10. International Conference on Design and Manufacturing during 16-17 December 2016, Indian Institute of Information Technology Design and Manufacturing, Kancheepuram (IIITDM), Chennai, India.
11. Editor for Atlantis Press of Springer for First International Conference on Materials, Manufacturing and Design Engineering iCMMMD 2016 during 20-21 December 2016

Approved Examiner

Institution of Engineers India for AMIE Projects- Guided one project this year

Member of professional Bodies

- Life Member – Indian Society for Technical Education (ISTE, New Delhi)
- Life Member – Tribology Society of India, (TSI)
- Associate Member – Institution of Engineers, Calcutta
- Life Fellow of Association of Engineers, India, Kolkata
- Society of Automotive Engineers, India, SAE India

Academic Foreign Visit

- Singapore
- Malaysia
- Detroit, Michigan, USA

Member of Other Institutes

- Board of Studies, DKTIET, Ichalkaranji, MS

Awards

- Marquis Whose Who in 2012

Administrative Experience at the Institute

- Member, Board of Studies in Mechanical Engineering (June 2001 to June 2005)
- Member, Academic Council (June 1997 to June 2000)
- Member Secretary, University Purchase Committee (September 1991 to 2005)
- Faculty Advisor for M. Tech. (Manufacturing Engineering)
- Incharge, Project Officer, Community Polytechnic, IoPE, Lonere
- Incharge, Store Officer, university
- Judges in various technical events, competitions
- Convener, Committee for design and fabrication of Drawing Desk
- Incharge- University Examination Seating arrangement
- Security Officer from 2012 to Feb. 2017.
- Convenor, University Convocation pandal and seating arrangement
- Officer Incharge, University Examination
- Senior Supervisor, University Examination
- Member, NBA proposal preparation committee
- Member, TEQIP II proposal preparation committee
- Nodal Officer, TEQIP II for procurement since 2012
- Member, Ambedkar Jayanti Exhibition committee
- Convenor, Stall and Exhibition Committee, ISTE Annual Convention
- Convenor, University Annual Social Gathering, pandal/stage and seating arrangement
- Convenor, University Annual Social Gathering, Exhibition committee
- Convener, Transport and Parking Committee, Indradhanushya 2013
- Member, Admission committee, 15% konkan quota

- Member, selection committee for non-teaching staff
- Member, University Canteen Committee
- Member, selection committee for ad-hoc teachers
- Member, Staff Promotion Development Scheme for Non-Teaching Staff
- Coordinator- UGC Cell since 2014

Academic Experience at the Institute

- Development of B. Tech. Workshop, Metrology and Quality Control Laboratory
- Development of Centre for Advanced Machining Technology (CAMT).
- Coordinator, B. Tech. Seminar and projects
- Member, Committee for syllabus preparation, UG and PG (Manufacturing)
- Commissioning and testing of Workshop machines and CNC machines, RPT Machine, USM Machine, EDM Machine, Kistler Dynamometer, TIG, SAW and MIG Welding Machines, Wire EDM
- Development of Curricula for B. Tech. Production, M. Tech. Manufacturing Engg., Production Engg for the Affiliated University

Personal Information

Name: Dr. Raju Shrihari Pawade
Father's Name: Shrihari Uddhavrao Pawade
Date of Birth: 2nd November 1967
E-mail: raju_s_pawade@yahoo.com, rspawade@dbatu.ac.in
Nationality: Indian
Address for Communication: Associate Professor (WS), Mechanical Engineering Department, Dr. Babasaheb Ambedkar Technological University, Lonere402103 MS (India)

Permanent Address: Parishram, AnandNagar, At. Po. Wani
 Tal. Wani 445 304 Dist. Yavatmal MS India

Teaching & Research

Experience: 22 years of teaching & research experience at Dr. Babasaheb Ambedkar Technological University, Lonere

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