

➤ FACULTY PROFILE



Name: Dr. Rupesh Chalisgaonkar

Designation: Associate Professor

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Professional Qualification:

Qualification	Title/Course	Organization/ Institute	Year
Ph.D.	Investigation of Machining Characteristics and Surface Integrity in Rough and Finish Cut WEDM of Pure Titanium.	NIT, Kurukshetra	2016
Post Graduate	Manufacturing Systems	BITS Pilani, Rajasthan	2002
Undergraduate	Mechanical	MITS Gwalior (MP)	2000

Publications (Journals & Conferences):

- Rupesh Chalisgaonkar, Jatinder Kumar, “Investigation of the machining parameters and integrity of the work and wire surfaces after finish cut WEDM of commercially pure titanium”, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume 2015, DOI: 10.1007/s40430-015-0335-3. (Springer-Verlag London).
- Rupesh Chalisgaonkar, Jatinder Kumar, “Investigation of wire consumption and wear mechanism in trim cut WEDM operation of commercially pure titanium”, Materials Science Forum, Volume 808:43-50, 2015, DOI:10.4028/www.scientific.net/MSF.808.43. (Trans Tech Publications, Switzerland)
- Rupesh Chalisgaonkar, Jatinder Kumar, “Microstructural characteristics of pure titanium by WEDM”, International Journal of Microstructure and Materials Properties, Volume 9(6): 463-484, 2014 (Indercience Publications, United Kingdom)
- Rupesh Chalisgaonkar, Jatinder Kumar, “Multi-response optimization and modeling of trim cut WEDM operation of commercially pure titanium (CPTi) considering multiple users’ preferences”, Engineering Science and Technology, an International Journal, Volume 2014, DOI: 10.1016/j.jestch.2014.10.006. (ELSEVIER Publication)
- Rupesh Chalisgaonkar, Jatinder Kumar, “Parametric optimization and modelling of rough cut WEDM operation of pure titanium using grey-fuzzy logic and dimensional analysis”, Cogent Engineering, Volume 2014, DOI: 10.1080/23311916.2014.979973. (Part of Taylor and Francis Publication)

- Rupesh Chalisgaonkar, Jatinder Kumar, “Optimization of WEDM process of pure titanium with multiple performance characteristics using Taguchi’s DOE approach and utility concept”, *Frontiers of Mechanical Engineering*, Volume 8(2):201–214, 2013, DOI: 10.1007/s11465-0. (Higher Education Press and Springer- Verlag, Heidelberg)
- Rupesh Chalisgaonkar, Varun Agrawal, Sachin Rathore, KLA Khan, “Multi response assessment of EN19 alloy steel in CNC milling process using Fuzzy matter element methodology”, *Materials Today: Proceedings*, Volume 64, Part 3 , 2022, ISSN 2214-7853 No. 1239-1243,2022
- Shreesh Maury, Bharatveer Malik Praduman Sharma Ajay Singh, Rupesh Chalisgaonkar “Investigation of different parameters of cube printed using PLA by FDM 3D printer”, *Materials Today: Proceedings*, Volume 64, Part 3 , 2022, ISSN No. 2214-7853
- Sachin Rathore, K.L.A. Khan, Anant Prakash Agrawal, Rupesh Chalisgaonkar , Malay Katiyar, “Modelling of Indian vendors posture using rapid upper limb assessment (RULA)”, *Materials Today: Proceedings*, Volume 64, Part 3 , 2022, ISSN No. 1234-1238
- Bhaskar Pandey, Rupesh Chalisgaonkar, “A Review on Post Additive Manufacturing Techniques to Improve Product Quality”, *Recent Trends in Industrial and Production Engineering. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-16-3135-1_2, 2022.
- Rupesh Chalisgaonkar, “Comparative Investigation of Process Capability of Surface Finish in Milling of EN19 Steel Using VMC”, *Recent Advances in Mechanical Engineering Part of the Lecture Notes in Mechanical Engineering book series (LNME)* ,2021, https://doi.org/10.1007/978-981-15-8704-7_87
- Rupesh Chalisgaonkar, “Insight in applications, manufacturing and corrosion behaviour of magnesium and its alloys – A review”, *Materials Today: Proceedings* Volume 26, Part 2, 2020, Pages 1060-1071, , ISSN No. 2214-7853
- Rupesh Chalisgaonkar, Jatinder Kumar, Piyush Pant, “Prediction of machining characteristics of finish cut WEDM process for pure titanium using feed forward back propagation neural network”, *Materials Today: Proceedings*, Volume 25, Part 4, 2020, ISSN No. 2214-7853
- Rupesh Chalisgaonkar, Jatinder Kumar, “Process capability analysis and optimization in WEDM of commercially pure titanium” *Procedia Engineering*, Volume 97: 58–766, 2014.
- Rupesh Chalisgaonkar, Ashutosh kumar Yadav, Abhishek Tyagi, , Ankur Jaiswal, Sandeep Kumar Singh, “Design & Fabrication of pneumatic powdered hacksaw”, *International Journal of Applied Engineering Research*, Volume 13, Number 6, 2018, ISSN 0973-4562.
- Rupesh Chalisgaonkar, Ayush Rastogi, “Experimental Investigation on Machining Characteristics of EN19 Alloy Steel Using CNC Vertical Machining Center”, *Journal of Experimental & Applied Mechanics*, Volume 9, Issue 3, 2018, ISSN 2321-516X.
- Rupesh Chalisgaonkar, Jatinder Kumar, “Simultaneous Optimization of Multiple Performance Characteristics for Pure Titanium using multi-response signal-tonois (MRSN) ratio in WEDM process”, *International Journal of Scientific & Engineering Research*, Volume 8, Issue 7, July-2017, ISSN 2229-5518.
- Rupesh Chalisgaonkar, Jatinder Kumar, “Multi-response optimization using grey- fuzzy methodology for pure titanium in finish cut WEDM”, *International Journal of Advanced Mechatronics and Robotics*, Volume 9(1): 91-98, 2017 (Serial Publications)
- Rupesh Chalisgaonkar, Jatinder Kumar, “Effect of process parameters on machining characteristics of pure titanium (ASTM GRADE 2) using WEDM”, *International Journal of Advanced Engineering Technology* E-ISSN 0976-3945.

- Rupesh Chalisgaonkar, Brij Bhushan Tyagi, “Optimization of Process Parameters of Wire Electrical Discharge Machining of AISI 316L”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 3(2): 317-327, 2012

NPTEL and others MOOCS courses:

- Achieved Elite+Silver certification in 12 weeks NPTEL Course on “Computer Integrated Manufacturing” (Jan-April, 2022).
- Achieved Elite certification in 12 weeks NPTEL Course on “Introduction to Mechanical Micro Machining” (Jan-April, 2019)
- Achieved Elite certification in 8 weeks NPTEL Course on “Introduction to Abrasive Machining and Finishing Courses” (Jan-March, 2020).
- Achieved Elite certification in 8 weeks NPTEL Course on “Mechanics of Machining” (Aug-Sept, 2018).
- Completed by MOOCS Course on “Additive Manufacturing Process Analysis” by University at Buffalo and The State University of New York and offered through Coursera dated 6th August, 2020.
- Completed by MOOCS Course on “The 3D Printing Revolution” by University of Illinois at Urbana-Champaign and offered through Coursera dated 15th May, 2020.
- Completed by MOOCS Course on “Intelligent Machining” by University at Buffalo and The State University of New York and offered through Coursera dated 6th July, 2020.

Attended Short-Term Courses/ Workshops/ Conferences-

- Attended one week Faculty Development Program on Startups and Entrepreneurship from 31 July- 4 August 2023 organized by Technological Business Incubator- KIET (TBIKIET).
- Attended one week Faculty Development Program on Multiscale Modeling and Simulation Techniques for 3D Printing" from 13-17 March, 2021 organized by IIT KANPUR.
- Attended two week NPTEL-AICTE Faculty Development Program on “Computer Integrated Manufacturing” (Jan-April, 2022).
- Attended two week NPTEL-AICTE Faculty Development Program on Introduction to Mechanical Micro Machining (Jan-April, 2019)
- Attended one week Faculty Development Program on “Manufacturing Processes” from 21- 25 August, 2019 organized by IIT KANPUR.
- Attended one week Faculty Development Program on Mechanics of Solids from 15- 19 July, 2019 organized by KIET Group of Institutions, Ghaziabad. (U.P.)
- Attended one week Faculty Development Program on Industry 4.0 and Smart Manufacturing from 10-14 June, 2019 organized by ABES Engineering College Ghaziabad (U.P.)
- Attended two week AICTE approved Faculty Development Program on Foundation Program in ICT for Education from 8 March-12 April, 2018 conducted by IIT Bombay.
- Attended one week Faculty Development Program on Manufacturing Science and Technology from 2-6 July, 2018 in KIET Group of Institutions, Ghaziabad.
- Attended two AICTE approved week Faculty Development Program (FDP 101X) on Foundation Program in ICT for Education conducted by Indian Institute of Technology Bombay at KIET Group of Institutions, Ghaziabad (U.P.) Remote Center ID 1148.

- Presented research paper entitled “Simultaneous Optimization of Multiple Performance Characteristics for Pure Titanium using multi-response signal-to-noise(MRSN) ratio in WEDM process”, in International Conference on Innovative Product Design & Development organized by AL-FALAH University, Faridabad (Haryana) on 20th April 2017.

Work Experience:

21 Years