


Name of Teaching Staff	: Dr. Ramesh R. Rajguru	
Designation	: Assistant Professor	
Department	: Mechanical Engineering	
Date of Joining the Institution	: 03.07.2011	
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Qualifications with Class / Grade	: <ol style="list-style-type: none"> <li>1. Ph.D. (Tech.) University of Mumbai. Mumbai, India. <b>Thesis:</b> <i>Investigation of Surface Integrity Aspects in Milling Operation on Nickel Based Super Alloy.</i></li> <li>2. M.E. (Manufacturing System Engineering), Department of Mechanical Engineering, Dwarkadas J. Sanghvi College of Engineering, Mumbai, India. <b>Thesis:</b> <i>Experimental Investigation and Optimization of Multipoint Cutting parameters in the Machining of GFRP Composites.</i> 1<sup>st</sup> class (69.20%), Mumbai University.</li> <li>3. B.E. (Mech. Engg.) Sardar Patel College of Engineering, Mumbai University, First class with distinction (82.55%).</li> </ol>	
Total Experience in Years	: <p><b><u>Teaching:</u></b></p> <ol style="list-style-type: none"> <li>1. Assistant Professor in Mechanical Engg. From 03-07-2011 till date.</li> <li>2. Lecturer in Mech. Engg., Dwarkadas J. Sanghvi College of Engg. from 12-07-2011 till 30-06-2012.</li> <li>3. Visiting lecturer in Mechanical Engineering, Sardar Patel College of Engineering from 29-7-2010 to 29-04-2011.</li> </ol> <p><b><u>Industry:</u></b></p> <ol style="list-style-type: none"> <li>1. Worked as Production Officer in Production Sub-Assembly, Department of 118NE Car, PAL-PEUGEOT Ltd. Dombivli from 02/05/1995 to 30/06/1997.</li> <li>2. Worked as Production Engineer at Aero -Tech Ducon India Pvt. Limited at TTC Rabale, Navi Mumbai from 01/07/1997 to 30/06/1998.</li> </ol>	

<p>Online Courses Completed (Coursera)</p>	<p><b>1) Specialization in “Digital Manufacturing &amp; Design Technology” (9 courses):</b></p> <ul style="list-style-type: none"> <li>a) Digital Manufacturing &amp; Design.</li> <li>b) Digital Thread: Components.</li> <li>c) Digital Thread: Implementation.</li> <li>d) Advanced Manufacturing Process Analysis.</li> <li>e) Intelligent Machining.</li> <li>f) Advanced Manufacturing Enterprise.</li> <li>g) Cyber Security in Manufacturing.</li> <li>h) MBSE: Model-Based Systems Engineering.</li> <li>i) Roadmap to Success in Digital Manufacturing &amp; Design.</li> </ul> <p>Conducted by <b>Ken English (Deputy Director), Sustainable Manufacturing and Advanced Robotic Technologies Community of Excellence at the University at Buffalo</b>, Prof. Shambhu Upadhyaya, Prof. Rahul Rai, Prof. Sara Behdad and Amy Moore, MBA (Project Manager, University at Buffalo, The center for Industrial Effectiveness), (July 2020).</p> <p><b>2) Specialization in “Design of Experiments” (4 courses):</b></p> <ul style="list-style-type: none"> <li>a) Experimental Design Basics.</li> <li>b) Factorial &amp; Fractional factorial Designs.</li> <li>c) Response Surfaces Mixtures and Model building.</li> <li>d) Random Models Nested &amp; Split plot Designs.</li> </ul> <p>Conducted by <b>Douglas C. Montgomery, Regents Professor of Engineering, Arizona State University</b> Foundation, Professor of Engineering School of Computing, Informatics and Decision Systems Engineering, (July 2020).</p> <p><b>3) “Mechanics of Materials” (4 courses):</b></p> <ul style="list-style-type: none"> <li>a) Mechanics of Materials I: Fundamentals of Stress &amp; Strain and Axial Loading.</li> <li>b) Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion.</li> <li>c) Mechanics of Materials III: Beam Bending.</li> <li>d) Mechanics of Materials IV: Deflections, Buckling, Combined Loading &amp; Failure Theories.</li> </ul> <p>Conducted by <b>Wayne E. Whiteman</b> (Sr. Academic Professional), Woodruff School of Material Engineering, <b>Georgia Institute of Technology, USA</b>, (July 2020).</p> <p><b>4) “Material Processing”</b>, Georgia Institute of Technology, USA, (June 2020).</p> <p><b>5) “Material Behavior”</b>, Georgia Institute of Technology, USA, (July 2020).</p> <p><b>6) “Materials Data Sciences and Informatics”</b>, Georgia Institute of Technology, USA, (August 2020).</p>
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	<p>7) <b>“Materials Science: 10 Things Every Engineer Should Know”</b>, University of California, Davis, (July 2020).</p> <p>8) <b>“Assessment in Higher Education: Professional Development for Teachers”</b>, Erasmus University Rotterdam (University of Rotterdam), Netherlands (July 2020).</p> <p>9) <b>“Learning to Teach Online”</b>, UNSW Sydney (The University of New South Whales), Australia (July 2020).</p> <p>10) <b>“AI For Everyone”</b>, deeplearning.ai, conducted by Prof. Andrew N G, Adjunct Professor at Stanford University, USA (May 2020).</p> <p>11) <b>“Online education: The foundations of online teaching”</b>, by Professor Iain Hay at Macquarie University, Sydney Australia (March, 2022).</p> <p>12) <b>“Psychology of Popularity”</b>, by Dr. Mitch Prinstein, The University of North Carolina at Chapel Hill (February, 2022).</p> <p>13) <b>“Advanced Instructional Strategies in the Virtual Classroom”</b>, by Racquel Stephens at University of California, Irvine (February, 2022).</p>
Papers Published in Journal:	<p><b>International &amp; National:</b></p> <ol style="list-style-type: none"> <li>1. <i>“A study of micro hardness in the machining of Inconel 625 using TiAlSiN coated tools under dry cutting conditions”</i>, published in the International Journal “Advances in Materials and Processing Technologies”, by Taylor and Francis, on 5<sup>th</sup> July (2022), (with Dr. Hari Vasudevan).</li> <li>2. <i>“A Review of the Impact of Environmental Fiscal and Material Properties in Case of Wind Turbine Blades”</i> accepted for publication in the International Journal, American Institute of Physics, (2022), (Scopus Indexed) (with Dr. Hari Vasudevan, Rishabh Singh and Sagar Joshi).</li> <li>3. <i>“Optimization of Machining Parameters for Surface Roughness in the End Milling of Hybrid Composite Using Response Surface Methodology”</i>, Published in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan, Shreejeet Sharma and Shreyash More).</li> <li>4. <i>“Impact of Process Parameters on Machining induced Micro harness in Dry End Milling of Inconel 625 using coated tool”</i>, Published in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan).</li> <li>5. <i>“Fabrication of Fibre Reinforced Composites using Vacuum Infusion Process and Testing”</i>, Published in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan and Nimit Merchant).</li> <li>6. <i>“Operational Logic for Electronic Continuously Variable Transmission using PID Control”</i>, Published in Lecture Notes in Mechanical Engineering,</li> </ol>

Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan).

7. *“Design of a Passive Assistive Exoskeleton for improving overall worker productivity in Industrie”*, Published in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan).
8. *“Design of an electronic continuously variable transmission actuation mechanism to optimize efficiency”*, Published in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2<sup>nd</sup> March 2023), (with Dr. Hari Vasudevan).
9. *“Cyber security challenges in digital manufacturing and possible ways of mitigation”* published in the book chapter of *“Cyber Security Threats and Challenges facing Human Life”*, by CRC Press Taylor and Francis Group, (2022), DOI: 10.1201/9781003218555, (with Dr. Hari Vasudevan, Dr. Narendra M. Shekokar, and Dr. Rajendra Khavekar).
10. *“Investigating the effect of cutting conditions and tool geometry on surface roughness in dry end milling of Inconel 625 using TiAlSiN ultra hard coated solid carbide tool”*, published in the International Journal *“Advances in Materials and Processing Technologies”*, by Taylor and Francis, on 02<sup>nd</sup> December (2020), (with Dr. Hari Vasudevan).
11. *“Exploring Ideal Process Parameters to the Enhance Surface Integrity using Grey Fuzzy Integrated Technique”* in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2020), (with Dr. Hari Vasudevan).
12. *“Predictive Modelling of Surface Roughness in the Machining of Inconel 625 using Artificial Neural Network”* in Lecture Notes in Mechanical Engineering, Published by Springer Singapore (2020), (with Dr. Hari Vasudevan).
13. *“Effect of Machining Parameters on Surface Integrity in End Milling of Inconel 625”*, Advances in Forming, Machining and Automation, Lecture Notes on Multidisciplinary Industrial Engineering, Published by Springer Singapore (2019), PP 505-515 (with Dr. Hari Vasudevan).
14. *“Investigation of the Impact of Cutting Parameters on Surface Integrity in the End Milling of Inconel 625”*, Materials Science Forum, Trans Tech Publications Ltd, Switzerland (2019), Vol. 969, PP 762-767.

15. "A Review and Analysis of the Machining Process involving Nickel Based Super Alloy" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore (2019), PP 425-432 (with Dr. Hari Vasudevan).
16. "Predictive Modelling of Delamination Factor and Cutting Forces in the Machining of GFRP Composite Material using ANN" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore (2019), 301-313 (with Dr. Hari Vasudevan and Rajnarayan Yadav).
17. "Multi Characteristics Optimization in the Turning of GFRP Composites based on Grey-Taguchi method" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore (2019), 27-34 (with Dr. Hari Vasudevan and Kalpesh Tank).
18. "Experimental Investigation and Optimization of End Milling Parameters in the Machining of Inconel 825 using Carbide Coated Tool" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore (2019), 401-412, (with Dr. Hari Vasudevan and Geet Dave).
19. "Optimization Of Multi-Performance Characteristics in the Turning Of GFRP(E) Composites using Principle Component Analysis combined with Grey Relational Analysis" published in Elsevier Materials today Proceedings Volume 5, Issue 2, Part 1, (2018), PP 5955-5967 (with Dr. Hari Vasudevan, Kalpesh Tank and Nishit Shetty).
20. "Grey Fuzzy Multi-objective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites" in Elsevier Journal "Procedia Engineering" vol. 97 (2014), PP 85 – 94 (with Dr. Hari Vasudevan and Naresh Deshpande).
21. "Multi-objective Optimization of Drilling Characteristics for NEMA G -11 GFRP/Epoxy Composite using Desirability Coupled with Taguchi Method" in Elsevier Journal "Procedia Engineering" vol. 97 (2014), PP 522 – 530 (with Dr. Hari Vasudevan and Naresh Deshpande).
22. "A study on Edge Milling Operation of NEMA G11 GFRP Composites based on Grey-Taguchi method" in the international journal Applied Mechanics and Materials, Vols. 592-594 (2014), PP 18-22 (with Dr. Hari Vasudevan and Naresh Deshpande).
23. "Desirability Fuzzy Multiple criteria Optimization of Process Parameters in CNC Turning of GFRP/ Vinyl ester Composites" in Elsevier published Journal "Procedia Material Science" Vol. 5 (2014), PP 2458 – 2467 (with Dr. Hari Vasudevan and Naresh Deshpande).

	<p>24. “<i>Experimental Investigation and Optimization in Edge Milling of NEMA G-11 GFRP/Epoxy Composites</i>” presented in Elsevier published Journal “<i>Procedia Material Science</i>” Vol. 5 (2014), PP 2105 – 2114 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>25. “<i>Investigation of the Machinability Characteristics of GFRP/ Epoxy Composites using Taguchi Methodology</i>” in the international Journal of Applied Mechanics and Materials (AMM) as a special volume titled “<i>Advanced Research in Design, Manufacturing and Materials</i>”. Published by Trans Tech Publications Ltd Switzerland, Vol. 612 (2014), PP 123-129 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>26. “<i>Investigation of the machinability characteristics of GFRP/vinyl ester composite using design of experiments</i> ” in the International Journal of Machining and Machinability of Materials: Special issue on Machining of Advanced Materials, Inderscience 2014, Vol.15, No.3/4, PP 186 – 200 (with Dr. Hari Vasudevan and Naresh Deshpande)</p> <p>27. “<i>Exploring the performance of a Single Cylinder Diesel Engine with alternative fuels such as CME and CME-Diesel Blends</i>” in the International Journal of Current Engineering and Technology, In Pressco International Press Corporation, Vol. 3, Issue 3, PP 1-4 (with Dr. Hari Vasudevan, Sandip Mane and Naresh Deshpande).</p> <p>28. “<i>A Review of Machining Processes and Machinability in the case of GFRP Composite Materials</i>” in IPI journal (The official publication of Indian Plastics Institute), August/September 2013, Vol.18, issue 3, ISBN 978-81-927125-0-5 (with Dr. Hari Vasudevan).</p>
Papers Presented in Conferences	<p><b>International &amp; National:</b></p> <p>1. “<i>Recent trend in manufacturing of silver nanoparticles and future applications</i>”, presented in the international conference on Cutting edge Research in Materials and Sustainable Chemical Technologies (CRMSCT-2022) Organised by Dept. of Chemical Engg. And Dept. of Chemistry, Manipal University Jaipur in association with Catalysis Society of India from January 27<sup>th</sup> - 29<sup>th</sup>, 2022.</p> <p>2. “<i>Machining Parameter Optimization for End Milling of Inconel 825 with a Micro hardness Perspective</i>” presented in the International Conference on Precision, Meso, Micro &amp; Nano Engineering (COPEN-11), organized by IIT Indore, from 12<sup>th</sup> to 14<sup>th</sup> December 2019.</p>

3. “*Optimization of Process Parameters in the Turning Operation of Inconel 625*” presented in the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018), held at DJSCE, Mumbai, from 20<sup>th</sup> to 21<sup>st</sup> July 2018.
4. “*Optimization of Machining Parameters in the Turning Operation of Inconel 825 using Grey Relation Analysis*” presented in the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018), held at DJSCE, Mumbai, from 20<sup>th</sup> to 21<sup>st</sup> July 2018.
5. “*Grey Fuzzy Multiple Criteria Optimization of Process Parameters for CNC turning of GFRP/Vinyl Ester Composites*” presented at 1<sup>st</sup> International Conference on Materials, Manufacturing and Design Engineering. (ICMMD -2016) held at Dr. Babasaheb Ambedkar Technological Universit, Lonere, Maharashtra, India, during December 20<sup>th</sup> -21<sup>st</sup>, 2016 (with Dr. Hari Vasudevan and Naresh Deshpande).
6. “*Multiple Criteria Optimization of Process Parameters for Edge Milling of NEMA G11 Composites using Desirablity Function Analysis*”, presented at 1<sup>st</sup> International Conference on Materials, Manufacturing and Design Engineering. (ICMMD-2016) held at Dr. Babasaheb Ambedkar Technological Universit, Lonere, Maharashtra, India, during December 20<sup>th</sup> - 21<sup>st</sup>, 2016 (with Dr. Hari Vasudevan and Naresh Deshpande).
7. “*Optimization of Cutting Parameters for Surface Roughness in Machining of GFRP Composites*”, presented at 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016) held at College of Engineering Pune, Maharashtra India, during December 16<sup>th</sup> -18<sup>th</sup>, 2016. (ISBN: 978-93-86256-27-0) (with Dr. Hari Vasudevan, Naresh Deshpande, Kalpesh Tank and Aman Tukrel).
8. “*Optimization of Material Removal Rate and Cutting Forces in Turning of GFRP composites*” in the 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design & Research Conference (AIMTDR–2016) held at College of Engineering, Pune during 16<sup>th</sup> -18<sup>th</sup> December 2016 (With Dr. Hari Vasudevan, Kalpesh and Mandar).
9. “*Solar Energy a Viable Alternative: A Review*” in ICAME2015 held during 15<sup>th</sup> & 16<sup>th</sup> of October 2015, UCEV, Villupuram, Vol1, (with Punit Sanghavi, Chirag Pandya and Raj Hemani).
10. “*Optimization of turning parameters for Glass Fibre Reinforced Plastic (GFRP/E) using Grey Relational Analysis coupled with Taguchi method*” in

ICAME2015 held during 15<sup>th</sup> & 16<sup>th</sup> of October 2015, UCEV, Villupuram, Vol1, (Kalpesh N. Tank, Mandar S. Rao, Rahil S. Sheth).

11. “*Utility Fuzzy Multi-objective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites*”, presented at 5<sup>th</sup> International & 26<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR-2014) held at Indian Institute of Technology Guwahati, Assam, India during December 12<sup>th</sup> -14<sup>th</sup> , 2014 (ISBN: 978-8-19274-610-4) (with Dr. Hari Vasudevan and Naresh Deshpande).
12. “*Experimental Investigation and Optimization of Milling Parameters in the Machining of NEMA G -11 GFRP Composite Material using PCD Tool*”, presented at 5<sup>th</sup> International & 26<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR-2014) held at Indian Institute of Technology Guwahati, Assam, India during December 12<sup>th</sup> -14<sup>th</sup> , 2014. (ISBN: 978-8-19274-610-4) (with Dr. Hari Vasudevan and Naresh Deshpande).
13. “*Utility Fuzzy Multicriteria Optimization of Process Parameters in CNC Turning of GFRP/ Vinyl ester Composites*” presented in the ICMMM2014 conference held at Indian Institute of Technology Madras, Chennai, during August 8<sup>th</sup> -9<sup>th</sup>, 2014. (ISBN 978-93-80689-18-0) (with Dr. Hari Vasudevan and Naresh Deshpande).
14. “*Grey fuzzy optimization of milling parameters for G-11GFRP/Epoxy composites with multiple performance characteristics*” presented in the ICMMM2014 conference held at Indian Institute of Technology Madras, Chennai, during August 8<sup>th</sup> -9<sup>th</sup>, 2014. (ISBN 978-93-80689-18-0) (with Dr. Hari Vasudevan and Naresh Deshpande).
15. “*Multi Criteria Decision Making using Fuzzy Inference System : A Case in Manufacturing*” presented in the ICCICCT 2014 conference organized by Noorul Islam centre for higher education, Noorul Islam university, Kumaracoil, Tamilnadu, India, from July 10<sup>th</sup> -11<sup>th</sup>, 2014. (IEEE Xplore) (with Dr. Hari Vasudevan and Naresh Deshpande).
16. “*An Experimental Investigation into the Optimization of Cutting Force in CNC Turning of Woven Fabric based GFRP/Epoxy Composites using PCD Cutting Tool*” presented in the International Conference on Design, Manufacturing and Mechatronics organized by Trinity college of engineering and research Pune, Maharashtra, from 9<sup>th</sup> – 10<sup>th</sup> January 2014 (with Dr. Hari Vasudevan and Naresh Deshpande).



	<p>17. “<i>Analysis of a Multi-criteria optimization problem using Taguchi and Grey relational analysis: A case study in the machining of composite materials</i>” in the International Conference on Advances in Mechanical Engineering organized by the department of Mechanical Engineering, College of Engineering Pune, Maharashtra, from 29<sup>th</sup>-31<sup>st</sup> May 2013 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>18. “<i>Study of Cutting Force in CNC Turning of Woven Fabric based GFRP/Vinylester Composites using PCD Cutting Tool</i>” in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013, ISBN 978-93-80686-50-9) organized by the Department of Mechanical Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28<sup>th</sup>-30<sup>th</sup> March 2013 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>19. “<i>Multi-criteria optimization using Taguchi and Grey relational analysis in CNC drilling of GFRP/E composite material</i>” in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013, ISBN 978-93-80686-50-9) organized by the Department of Mechanical Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28<sup>th</sup>-30<sup>th</sup> March 2013 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>20. “<i>Recent Trends and Developments in the use of Woven Fabric Reinforcements for Composite Materials</i>” in the International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013, ISBN 978-81-924744-03), organized by G.H. Patel College of Engineering &amp; Technology, Vallabh Vidyanagar, Gujarat, India, 21<sup>st</sup>-23<sup>th</sup> February 2013 (with Dr. Hari Vasudevan and Naresh Deshpande).</p> <p>21. “<i>Delamination in Machining of Composite Materials: A Review in the Context of Drilling Operation</i>” in the National Conference on Emerging Trends in Engineering, NCETE-13, during 4<sup>th</sup> - 5<sup>th</sup> January 2013, organized by M.H. Saboo Siddik College of Engineering, Byculla, Mumbai.</p> <p>22. “<i>Use of Composites in Modern Aviation Industry: A Review</i>” presented in the National Conference on Role of Engineers in national building, during 1<sup>st</sup> – 2<sup>nd</sup> March 2013, organized by Viva Institute of Technology, Virar, Maharashtra, India.</p>
Area of Specialization	<b>Manufacturing</b>

PhDs / Projects Guided	:	<b><u>PhDs :</u></b> <b><u>Projects at</u></b> <b><u>Masters level:</u></b>	<b>Two</b>
Professional Memberships	:		Life Member of I.S.M.E. (Indian Society of Manufacturing Engineers). Life Member of I.S.T.E. (Indian Society for Technical Education.
Grants fetched	:	Minor Research Grant (University of Mumbai)	<ol style="list-style-type: none"> <li>1. Received University of Mumbai Minor Research Grant (Sr. No. 195) of Rs 50000 during 2018-19, for project titled “Predictive Modelling of Surface Roughness in the Machining of Inconel 625 using Artificial Neural Network” (with Dr. Hari Vasudevan).</li> <li>2. Received University of Mumbai Minor Research Grant (Sr. No. 388) of Rs 45000 during 2015-16, for project titled “Grey Relational Analysis for Minimising Surface Roughness of Milled NEMA GII GFRP Plates” (with Dr. Hari Vasudevan).</li> <li>3. Received University of Mumbai Minor Research Grant (Sr. No. 393) of Rs 45000 during 2017-18, for project titled “Grey Fuzzy Optimization of Process Parameters for CNC Turning of Inconel 825 Nickel Based Super Alloy” (with Dr. Hari Vasudevan).</li> </ol>

Interaction with Professional Institutions	: <p><b>Guest Lectures:</b></p> <p><b>Other Achievements and Responsibilities:</b></p>	<ol style="list-style-type: none"> <li>1. Delivered Webinar on “Application of DOE in Manufacturing with Minitab” at M.H. Saboo Siddik College of Engineering, Mumbai Campus.</li> <li>2. Delivered an Expert talk on “Components of Composites and Manufacturing Processes of Composites” at Shri Bhagubhai Mafatlal Polytechnic, Vile Parle west, Mumbai. <ul style="list-style-type: none"> <li>• Won the District Level Competition and further entered the final round of the University Level in the 14th “Avishkar”, The Annual Research Convention 2019-20, organised by the University of Mumbai.</li> <li>• <b>Reviewer (Conference paper):</b> Reviewed the Technical Papers for 7<sup>th</sup> International &amp; 28<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2018) organized by Anna University, Chennai, India.</li> <li>• <b>Reviewer (Journal paper):</b> Reviewed a paper on “Optimization of End milling process parameters on GFRP composites using Response Surface technique” in February 2015; <i>Journal: Indian Journal of Engineering &amp; Materials Sciences</i>, Publisher: National Institute of Science Communication and Information Resources Dr. K S Krishnan Marg, New Delhi 110 012, India.</li> <li>• <b>Technical Judge</b>, ‘Vigyanam - an National Technical Paper Presentation Competition 2022 at St. Francis Institute of Technology, Mumbai.</li> <li>• <b>Session Chair</b> at 12<sup>th</sup> National Conference on "Role of Engineers in Nation Building" (NCRENB 2022) on 4<sup>th</sup> - 5<sup>th</sup> March 2022, Dept of Mechanical Engg. VIVA Institute of Technology, Virar, Mumbai.</li> <li>• <b>STTP Coordinator:</b> ISTE approved one week Short Term Training Program on "<b>Advancements in Indian Manufacturing: Leveraging Industry 4.0 to Drive Growth and Innovation</b>" was conducted from 24<sup>th</sup> June 2023 to 28<sup>th</sup> June 2023.</li> </ul> </li> </ol>
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<p>Continuous Education Programs Attended</p>		<ul style="list-style-type: none"> <li>• Attended National Level Faculty Development Program on <b>“Analysis of Engineering System Using Creo”</b> organized during 1<sup>st</sup> - 6<sup>th</sup> August 2022 at Bharatiya Vidya Bhavan’s Sardar Patel College of Engineering, Andheri in collaboration with SAE India, Invensys CAD Solution and Indian Institution of Industrial Engineering</li> <li>• Attended Faculty Development Program (FDP) AICTE-ISTE approved <b>“Advanced Materials and Manufacturing for industry 4.0”</b> organized during 22<sup>th</sup> - 28<sup>th</sup> February 2022 at SSGMCE Shegaon by Department of Mechanical Engineering.</li> <li>• Attended FDP on, <b>“A Journey into the Manufacturing Sector in India in view of Industry 4.0 practices and COVID-19”</b> organized by Production Engineering Department, during online from 9<sup>th</sup> to 13<sup>th</sup> June, 2020, at Dwarkadas J. Sanghvi College of Engineering, Mumbai.</li> <li>• Attended three day FDP on, <b>“Role of Faculty in Accreditation, Ranking and Quality Education”</b> during 23<sup>rd</sup> to 25<sup>th</sup> April, 2019, at Shobhaben Pratabhai Patel School of Pharmacy &amp; Technology Management, SVKM’s NMIMS, Mumbai.</li> <li>• Attended two day FDP on, <b>“Active Teaching Learning Strategies Using Innovative Technology”</b> during February 25<sup>th</sup> - 26<sup>th</sup> , 2019 at Dwarkadas J. Sanghvi College of Engineering, Mumbai.</li> <li>• Attended Faculty Development AICTE-ISTE approved one week Short Term Training Program (STTP) on <b>“Robotics and Industrial Automation”</b> from 12<sup>th</sup> - 16<sup>th</sup> November 2018 at D. J. Sanghvi College of Engineering, Vile Parle.</li> <li>• Attended one week Short Term Training Program (STTP) on, <b>“Mechanical Manufacturing &amp; Monitoring using MATLAB, MMM-2017”</b> during 11<sup>th</sup> to 16<sup>th</sup> December, 2017, at VNIT, Nagpur.</li> <li>• Attended Faculty Development ISTE approved one week Short Term Training Program (STTP) on, <b>“Advanced</b></li> </ul>
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		<p><b>Composite Materials"</b> during 24<sup>th</sup> - 28<sup>th</sup> May 2016 in VIIT Pune.</p> <ul style="list-style-type: none"> <li>• Attended one Week Faculty Development Program on <b>“Digital Prototyping for Product Design”</b> during 6<sup>th</sup> to 10<sup>th</sup> July, 2015 in PIIT EMSR, New Panvel Mumbai.</li> <li>• Participated in the one day <b>“Workshop on “Outcome based education and accreditation for the faculty members of technical institutions”</b> on 7<sup>th</sup> September 2014 at VJTI, organized by NBA, New Delhi.</li> <li>• Received training on <b>“Mastercam Milling &amp; Robot Programming 2012”</b> at Bharati Vidyapeeth College of Engineering, Navi Mumbai.</li> <li>• Attended a two week workshop on <b>“CFD – Fundamentals and Software (ANSYS Fluent Workbench 12.0) Training”</b> held at SPCE from July 5<sup>th</sup> to 16<sup>th</sup> July, 2010.</li> <li>• Participated in three days Program on <b>“Advances in Turbine &amp; Boiler Design &amp; Maintenance Practices”</b> held during 22<sup>th</sup> – 24<sup>th</sup> June 2010 at Dahanu Thermal Power Station.</li> </ul>
Subjects Taught		<p><b><u>UG Level:</u></b> SOM, MT, PPC, IE and MMM</p> <p><b><u>PG Level:</u></b> AM and RM</p>
Projects Guided	:	<p><b><u>UG Level:</u></b> More than 30+</p> <p>Some of UG Project Guided:</p> <ol style="list-style-type: none"> <li>1. Machining parameter optimization for End milling of Inconel 825 with a Micro hardness perspective.</li> <li>2. Investigation of effects of machining parameters over CFRP composite during a Milling operation.</li> <li>3. Optimization of machining parameters in the turning operation of Inconel 825.</li> </ol> <p><b><u>PG Level:</u></b> two</p>

Recommended Students for Higher Education	<u>Name of the Student</u> More than 100+	<u>University/Industry</u> Various Universities across Germany, USA and UK
Institute/Department Responsibility handled:	<ol style="list-style-type: none"> <li>1. Joint Convener of student's activities (Sports)</li> <li>2. NBA Core Committee Member– Continuous Improvement (Criteria 7)</li> <li>3. Mentor for Coursera - Digital Manufacturing Specialization</li> <li>4. Admission Committee</li> <li>5. Departmental Project coordinator</li> <li>6. DJS Phoenix and ISME faculty Advisor</li> <li>7. PAC Committee Member</li> </ol>	