

Name of Teaching Staff	:	Dr. Naresh C. Deshpande		
Designation	:	Assistant Professor		
Department	:	Mechanical Engineering		
Date of Joining the Institution	:	01.07.1997		
Email ID	:	naresh.deshpande@djsce.ac.in		
Google Scholar Link	:	https://scholar.google.com/citations?user=X8gd1HsAAAAJ&hl=en		
Researchgate Link:	:	https://www.researchgate.net/profile/Naresh-Deshpande		
ORCID	:	https://orcid.org/0000-0002-9315-2323		
Publons Researcher ID	:	https://publons.com/researcher/4928502/naresh-deshpande/		
Qualifications with Class / Grade	:	(1) PhD (Mechanical Engg.), Mumbai University. (2) M.E. (Mechanical Engg.), Dec. 2013, Ist class with distinction, 70.86%, Mumbai University. (3) B.E. (Production Engg.), May 1994, Ist class with distinction, 77.02%, Dr. Babasaheb Ambedkar Marathwada University Aurangabad. <i>1st Rank in University.</i>		
Total Experience in Years	:	<u>Teaching:</u> 29 years 1. Assistant Professor Dwarkadas J. Sanghvi College of Engg. from 1-1-2006 till date. 2. Lecturer (Sr.Scale) in Prodn. Engg., Dwarkadas J. Sanghvi College of Engg. from 1-4-2005 till 1-1-2006. 3. Lecturer in Production Engineering, Dwarkadas J. Sanghvi College of Engg. from 1-7-1997 to 31-3-2005. <u>Industry:</u> 10 months 1. Engineer (Production), Garware Polyester's Ltd., Aurangabad from 14-9-94 to 31-3-95. 2. Apprentice, Needle Roller Bearings (N.R.B.) Jalna from September, 1995 to December, 1995.		

Book Chapters published:	:	1) <i>"A Model for Residual Stress in the Dry Turning of Duplex Stainless Steels"</i> Key Engineering Materials, 933 (2022) 25–31, Trans Tech Publications, Ltd. (doi:10.4028/p-cqj696) (with Dr. Hari Vasudevan).
Papers Published in Journal:	:	<u>National</u> :-- 01 (1) <i>"Electron-Beam Curing of Polymeric Composites: An Enabling Technology for Advanced Manufacturing"</i> in IPI journal (The official publication of Indian Plastics Institute), June/July 2013, Vol.18, issue 2.(with Dr. Hari Vasudevan) <u>International</u> :-- 09 (1) <i>"Machining Induced Surface Integrity Aspects of Stainless Steels: A Review"</i> in Elsevier Journal "Materials Today: Proceedings" vol.22 (2020) pp. 1499 -1506 (doi: 10.1016/j.matpr.2020.02.067) (with Dr. Hari Vasudevan) (2) <i>"Grey Fuzzy Multiobjective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites"</i> in Elsevier Journal "Procedia Engineering" vol. 97 (2014) pp. 85 – 94 (doi: 10.1016/j.proeng.2014.12.228) (with Dr. Hari Vasudevan and Ramesh Rajguru) (3) <i>"Multiobjective Optimization of Drilling Characteristics for NEMA G -11 GFRP/Epoxy Composite using Desirability Coupled with Taguchi Method "</i> in Elsevier Journal "Procedia Engineering" vol. 97 (2014) pp. 522 – 530 (doi: 10.1016/j.proeng.2014.12.278) (with Dr. Hari Vasudevan and Ramesh Rajguru) (4) <i>"A study on Edge Milling Operation of NEMA G11 GFRP Composites based on Grey-Taguchi method"</i> in the international journal of Applied Mechanics and Materials - ISSN:660-9336, Vols. 592-594 (2014) pp.18-22, (with Dr. Hari Vasudevan and Ramesh Rajguru). DOI: 10.4028/www.scientific.net/AMM.592-594.18 (5) <i>"Desirability Fuzzy Multiple criteria Optimization of Process Parameters in CNC Turning of GFRP/ Vinyl ester Composites"</i> in Elsevier published Journal "Procedia Material Science" Vol. 5 (2014) pp. 2458 – 2467 (with Dr. Hari Vasudevan and Ramesh Rajguru). DOI: 10.1016/j.mspro.2014.07.497 (6) <i>"Experimental Investigation and Optimization in Edge Milling of NEMA G-11 GFRP/Epoxy Composites"</i> presented in Elsevier published Journal "Procedia Material Science" Vol. 5 (2014) pp. 2105 – 2114 (with Dr. Hari Vasudevan and Ramesh Rajguru). DOI: 10.1016/j.mspro.2014.07.546

	(7) <i>“Investigation of the Machinability Characteristics of GFRP/ Epoxy Composites using Taguchi Methodology”</i> in the international Journal of Applied Mechanics and Materials (AMM) Vol. 612 (2014) pp 123-129, as a special volume titled “Advanced Research in Design, Manufacturing and Materials”. Published by Trans Tech Publications Ltd Switzerland,(doi:10.4028/www.scientific.net/AMM.612.123) (with Dr. Hari Vasudevan and Ramesh Rajguru). (8) <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 ISSN (Online): 1748-572X - ISSN (Print): 1748-5711. (with Dr. Hari Vasudevan and Ramesh Rajguru) DOI: 10.1504/IJMMM.2014.060549 (9) <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, InPressco International Press Corporation, Vol. 3, Issue 3, pp.1-4, ISSN 2277-4106 (with Dr. Hari Vasudevan, Sandip Mane and Rajguru Ramesh).
Papers Presented in Conferences	<u>National:-- 02</u> (1) <i>“Analysis of Compliant Cellular Materials for Potential Industrial Applications”</i> in the National Conference on Innovation in Futuristic Materials & Manufacturing Techniques [IFMMT-2014], during 26th and 27th December 2014, organized by Department of Mechanical Engg., School of Engg. And Tech., Manipal University, Jaipur. (with Umang Dadhich and Ometz Elijah) (2)<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 4th & 5th January 2013, organized by M.H.Saboo Siddik College of Engineering, Byculla, Mumbai. (with Dr. Hari Vasudevan and Ramesh Rajguru) <u>International :-- 17</u> (1) <i>“Predictive Modeling of Cutting Force in the Machining of Duplex Stainless Steels Using Artificial Neural Network”</i> Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. (2023) 501- 510, Springer, Singapore (doi:10.1007/978-981-19-7971-2_48) (with Dr Hari Vasudevan).

(2) "Modelling of Surface Roughness effect on the Dry Turning of Duplex Stainless Steels" IOP Conf. Ser.: Mater. Sci. Eng. 1258 (2022) 012020 (doi:10.1088/1757-899X/1258/1/012020) (with Dr Hari Vasudevan).

(3) *"Multi Regression Model for Cutting Force During Dry Turning of Duplex Stainless Steels Using Definitive Screening Design"*, IOP Conf. Ser.: Earth Environ. Sci. 1100 (2022) 12026, presented at the International Conference on Green Energy and Technology held at Sri Sivasubramaniya Nadar College of Engineering, Chennai, India on 26-27 November 2021(doi:10.1088/1755-1315/1100/1/012026) (with Dr Hari Vasudevan).

(4) *"Grey Fuzzy Multiple Criteria Optimization of Process Parameters for CNC turning of GFRP/Vinyl Ester Composites"*, presented at 1st International Conference on Materials, Manufacturing and Design Engineering. (ICMMD -2016) held at Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India, during December 20-21, 2016. (with Dr Hari Vasudevan and Ramesh Rajguru)

(5) *"Multiple Criteria Optimization of Process Parameters for Edge Milling of NEMA G11 Composites using Desirability Function Analysis"*, presented at 1st International Conference on Materials, Manufacturing and Design Engineering. (ICMMD-2016) held at Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India, during December 20-21, 2016. (with Ramesh Rajguru and Dr Hari Vasudevan)

(6) *"Optimization of Cutting Parameters for Surface Roughness in Machining of GFRP Composites"*, presented at 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016) held at College of Engineering Pune, Maharashtra India, during December 16-18, 2016. (ISBN: 978-93-86256-27-0) (with Dr. Hari Vasudevan, Ramesh Rajguru, Kalpesh Tank and Aman Tukrel)

(7) *"Utility Fuzzy Multiobjective Optimization of Process Parameters for CNC Turning of GFRP/Epoxy Composites"*, presented at 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2014) held at Indian Institute of Technology Guwahati, Assam, India during December 12-14, 2014. (ISBN: 978-8-19274-610-4) (with Dr. Hari Vasudevan and Ramesh Rajguru)

(8) *"Experimental Investigation and Optimization of Milling Parameters in the Machining of NEMA G -11 GFRP Composite Material using PCD Tool"* , presented in the international conference on All India Manufacturing Technology, Design and Research (AIMTDR-2014) held at Indian Institute of Technology Guwahati, Assam, India during December 12-14, 2014. (ISBN: 978-8-19274-610-4) (with Dr. Hari Vasudevan and Ramesh Rajguru)

(9) *"Utility Fuzzy Multicriteria Optimization of Process Parameters in CNC Turning of GFRP/ Vinyl ester Composites"* presented in the ICMMD2014

conference held at Indian Institute of Technology Madras, Chennai, during August 8-9, 2014. (ISBN 978-93-80689-18-0) (with Dr. Hari Vasudevan and Ramesh Rajguru)

(10) “*Grey fuzzy optimization of milling parameters for G-11 GFRP/Epoxy composites with multiple performance characteristics*” presented in the ICMMM2014 conference held at Indian Institute of Technology Madras, Chennai, during August 8-9, 2014. (ISBN 978-93-80689-18-0) (with Dr. Hari Vasudevan and Ramesh Rajguru)

(11) “*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 10-11, 2014. pp.1280 – 1286. (ISBN: 978-1-4799-4191-9) (doi:10.1109/ICCICCT.2014.6) (IEEE Xplore) (with Dr. Hari Vasudevan and Ramesh Rajguru)

(12) “*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 9th – 10th Jan.2014 . (with Dr. Hari Vasudevan and Ramesh Rajguru)

(13) “*An Experimental Study on the Performance and Emission Characteristics of a Single Cylinder Diesel Engine Using CME-Diesel Blends*”, in the International Conference on Renewable Energy and Sustainable Development (ICRESD-2014) organized by KJEI’s Trinity College of Engineering and Research, Pune from 9th to 10th January 2014 (with Dr. Hari Vasudevan, S. Mane and R. Rajguru).

(14) “*Analysis of a Multi-criteria optimization problem using Taguchi and Grey relational analysis: A case study in the machining of composite materials*” in the International Conference on Advances in Mechanical Engineering organized by the department of Mechanical Engineering, College of Engineering Pune, Maharashtra, from 29th-31st May 2013 . (with Dr. Hari Vasudevan and Ramesh Rajguru)

(15) “*Study of Cutting Force in CNC Turning of Woven Fabric based GFRP/Vinylester Composites using PCD Cutting Tool*” in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013, ISBN 978-93-80686-50-9) organised by the Department of Mechanical Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28th-30th March 2013 . (with Dr. Hari Vasudevan and Ramesh Rajguru)

(16) “*Multi-criteria optimization using Taguchi and Grey relational analysis in CNC drilling of GFRP/E composite material*” in the International Conference on Advanced Manufacturing and Automation (INCAMA-2013, ISBN 978-93-80686-50-9) organised by the Department of Mechanical

		Engineering (DST-FIST Sponsored) Kalasalingam University, Madurai, Tamil Nadu from the 28th-30th March 2013. (with Dr. Hari Vasudevan and Ramesh Rajguru)
		(17)“Recent Trends and Developments in the use of Woven Fabric Reinforcements for Composite Materials” in the International Conference on Innovations in Automation and Mechatronics Engineering 2013 (ICIAME-2013,ISBN 978-81-924744-03), organised by G.H.Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat, India, 21-23 February 2013. (with Dr. Hari Vasudevan and Ramesh Rajguru)
Area of Specialization		Machining Science, Material Science and Engineering, Automation and Control
Professional Memberships	:	1. Life member of I.S.T.E. (Indian Society of Technical Education) 2. Life Member of I.S.M.E. (Indian Society of Manufacturing Engineers)
Grants fetched	:	Minor Research Grant (University of Mumbai) 1. Received University of Mumbai Minor Research Grant (Sr. No. 389) of ₹ 30000 during 2015-16, for project titled “Multi-Objective Optimization of Roughness Parameters during Turning of GFRP/Epoxy Composite Material”. (Along with Dr. Hari Vasudevan as co-investigator)
Interaction with Professional Institutions	:	Guest Lectures: 1. Delivered an Expert talk on “Low Cost Automation” at the national seminar on Affordable Technologies for SME sector in INDIA held on 27 th March 2015 at Lala Lajpatrai Institute of Management, Mahalaxmi, Mumbai. Other Achievements and Responsibilities: 1. Recipient of ‘Best Teacher Award’ for the academic year 2008–09 from department of production engineering. Award constituted by SVKM management, includes a certificate of honor, and Rs. 5,000/- in cash 2. Associate head of Production Engineering department.
Subjects Taught		<u>UG Level:</u> Engineering Graphics, Applied Mechanics, Machining Science and Technology, Material Science and Engineering, CAD/CAM, Automation and Control Engineering, Metrology and Quality Engineering, Manufacturing Engineering.

Projects Guided	: <u>UG Level:</u> <u>Academic year 2021- 22</u> <table data-bbox="491 293 1458 1021"> <tr> <th data-bbox="491 293 719 353">Student Name</th><th data-bbox="719 293 1458 353">Project title</th></tr> <tr> <td data-bbox="491 353 719 450">Anushka Shirke</td><td data-bbox="719 353 1458 450">Streamlining Supply Chain – Demand Planning and Network Optimization</td></tr> <tr> <td data-bbox="491 450 719 546">Kajal Patil</td><td data-bbox="719 450 1458 546">Productivity Improvement in The Assembly Department by Implementing SPF And Product Development</td></tr> <tr> <td data-bbox="491 546 719 642">Yatharth Shah</td><td data-bbox="719 546 1458 642">Development of Automation in Corrosion Resistance Testing Facility</td></tr> <tr> <td data-bbox="491 642 719 739">Suraj Patel</td><td data-bbox="719 642 1458 739">Improving Gold Recovery and Process Efficiency by following Production methodology Techniques</td></tr> <tr> <td data-bbox="491 739 719 835">Akhilan Greep</td><td data-bbox="719 739 1458 835">A Study on Application of Failure Modes & Effects Analysis on Production Lines</td></tr> <tr> <td data-bbox="491 835 719 931">Bhavin Dave</td><td data-bbox="719 835 1458 931">Process establishment and quality improvement for barrels and plungers</td></tr> <tr> <td data-bbox="491 931 719 1021">Devesh Modi</td><td data-bbox="719 931 1458 1021">Production Improvement of Gear Manufacturing using Kaizen Principle and Cost Effective Tooling</td></tr> </table>	Student Name	Project title	Anushka Shirke	Streamlining Supply Chain – Demand Planning and Network Optimization	Kajal Patil	Productivity Improvement in The Assembly Department by Implementing SPF And Product Development	Yatharth Shah	Development of Automation in Corrosion Resistance Testing Facility	Suraj Patel	Improving Gold Recovery and Process Efficiency by following Production methodology Techniques	Akhilan Greep	A Study on Application of Failure Modes & Effects Analysis on Production Lines	Bhavin Dave	Process establishment and quality improvement for barrels and plungers	Devesh Modi	Production Improvement of Gear Manufacturing using Kaizen Principle and Cost Effective Tooling
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Devesh Modi	Production Improvement of Gear Manufacturing using Kaizen Principle and Cost Effective Tooling																

Recommended Students for Higher Education	<u>Name of the Student</u>	<u>University/Industry</u>
	Samhita Prajapati	Massachusetts Lowell
	Shanay Shah	University of Cincinnati
	Karan Antrolia	Lehigh University
	Yash Kothari	University of Illinois, Chicago
	Vinay Shah	University of Oklahoma
	Krunal Sonpal	Oregon State University
	Samay parikh	Georgia tech
	Aakask D Shah	Arizona state university
	Harsh Doshi	Georgia Institute of Technology
	Rahil Vinay Mehta	Northeastern University
	ADIT MEHTA	New York University
	Mihir Shah	DePaul University
	Shubham Nage	University of Michigan
	Aditya Gune	University of California
	Parth Sanghvi	Stanford University
	Aakash Panchal	University of Florida
Institute/Department Responsibility handled:	1) Production Department in - charge from 28/8/2014 to 12/7/2016 2) Production Department Associate head – 16/7/2016 to 10/11/2017 3) Member of admission committee	

Pedagogy Development			Name of the Module	Platform on which module is developed	Date of E Content Development	
			Acceptance Sampling	Youtube	4/19/2020	
			AutoCad 2019 Interface	Youtube	1/13/2019	
			AutoCad 2019 Layers	Youtube	1/21/2019	
			Projection of Solids	Youtube	4/24/2020	
			AutoCad Print to PDF	Youtube	4/26/2020	
			Section of Solids and Development	Youtube	4/30/2020	
			Engineering Curves	Youtube	5/5/2020	
		Youtube channel links : https://www.youtube.com/channel/UCb4SP4vVKnB9MDktw2ng8vA — https://www.youtube.com/channel/UCF5yGBeZF3ch-Bv82Y-r3DQ				