

Name of Teaching Staff	: Dr. Atul Devidasrao Dhale	
Designation	: Professor	
Department	: Mechanical Engineering	
Date of Joining the Institution	: 10 April 2017	
Email ID	: atul.dhale@djsce.ac.in	
Office Contact	: 022/42335000/42335001	
Google Scholar Link	: https://scholar.google.com/citations?user=xw_KscoAAAAJ&hl=en	
Researchgate Link:	: https://www.researchgate.net/profile/Atul-Dhale-2	
ORCID	: https://orcid.org/0000-0002-4568-5002	
Publons Researcher ID	: https://publons.com/researcher/1991042/atul-devidasrao-dhale/	
Qualifications with Class / Grade	: Ph.D. (Engg. & Tech) Rashtrasant Tukdoji Maharaj, Nagpur University, Nagpur. April 2016, M.E. (Mech. Engg-Design Engg) Department of Mechanical Engineering, Walchand College of Engineering, Sangli, Kolhapur University, June 2006, 65.09% B.E. (Mech. Engg) Department of Mechanical Engineering, Government College of Engineering, Amravati, June 1995, 66.54%	
Total Experience in Years	: Total Experience:- 26 years Professor in Department of Mechanical Engineering, D. J. Sanghvi College of Engineering, Vile parle, Mumbai, (09 Sep. 2021 to till date) Professor in Department of Production Engineering, D. J. Sanghvi College of Engineering, Vile parle, Mumbai, (02 July 2018 to 08 Sep. 2021) Associate Professor in Department of Mechanical Engineering, D. J. Sanghvi College of Engineering, Vile parle, Mumbai, (10 April 2017 to 01 July 2018) Associate Professor & Head of Department , Mechanical Engineering, Shivajirao S. Jondhale College of Engineering, Dombivli (East) Distt.-Thane, Mumbai University. (01 Oct.2011-09 April 2017) Assistant Professor Department of Mechanical Engineering, Shivajirao S. Jondhale College of Engineering, Dombivli (East) Distt.-Thane, Mumbai University. (July 2006- Sept.2011) Lecturer , Department of Mechanical Engineering, Shivajirao S. Jondhale College of Engineering, Dombivli(East) Distt.-Thane, Mumbai University.(Sept. 1995-June.2006)	
Papers Published in Journal:	: <ol style="list-style-type: none">1. Dhale A. D. & Modak J. P. "Design of Experimentation for Modelling of oil Seed Presser Using HPFM" International Journal of Agricultural Engineering. ISSN: 0976-7223, volume 3 Issue 2 October, 2010, pp. 348-354.2. Dhale A. D. & Modak J. P. "Design and Development of oil seed presser by using Energy Source as Human Powered Flywheel Motor", International Journal of Agriculture and Food Science Technology,	

ISSN: 2249-3069, volume 2 Number 1 Jan-June 2011, pp. 63-72.

3. Dhale A. D. & Modak J. P. "Formulation of the Experimental Data Based Model for Oil Press Using Human Powered Flywheel Motor as an Energy source" **Agricultural Engineering International, CIGR Journal**, ISSN: 1682-1130, Vol.14, No.3, Sept. 2012pp. 218-229
4. Dhale A. D. & Modak J. P. "Formulation of Data Based ANN Model For Human Powered Oil Press" **International Journal of Mechanical Engineering and Technology (IJMET)**, Volume 4, Issue 3, May - June 2013, pp. 108-117.
5. Dhale A. D. & Atique Shaikh, "AGV Path Planning and Obstacle Avoidance Using Dijkstra's Algorithm" **International Journal of Application or Innovation in Engineering & Management (IJAIEM)** ISSN 2319 – 4847 Vol. 2, Issue 6, June 2013 pp. 77-83
6. Dhale A. D. & Atique Shaikh, "AGV routing using Dijkstra's Algorithm- A review" **International Journal of Scientific & Engineering Research**, ISSN 2229-5518 Volume4, Issue 7, July-2013 pp. 1665-1670.
7. Dhale A. D & Fahim khan, "Application of Acoustic Emission Technique in Various Field" **International Journal of Engineering Research and Development** e-ISSN: 2278-067X, ISSN: 2278-800X Volume 7, Issue 10, July 2013, PP. 80-85.
8. Dhale A. D & Fahim khan, "Acoustic Emission Method for Selection of Optimum Cutting Parameters in Turning using Different Fluids: A Review" **International Journal of Innovative Research and Development**. Vol. 2 Issue 7, July 2013
9. Dhale A. D & Fahim khan, "Optimization by Taguchi method and In-process Monitoring of Cutting Parameters using Acoustic Emission for EN8" **International Journal of Application or Innovation in Engineering & Management (IJAIEM)** Vol. 2 Issue 11, November 2013.
10. Dhale A. D & Fahim khan, "Optimization and In process Monitoring of Cutting Parameters using Acoustic Emission for Mild steel" **International Journal of Scientific and Engineering Research (IJSER) - (ISSN 2229-5518)** Vol. 2 Issue 4, July 2013
11. Dhale A. D. & Kamath Swapnil, "Design, optimization and Analysis of Connecting Rod of Vehicle Engine Using CAE Tools", **International Academy of Science, Engineering and Technology** ISSN (online) 2319-2259, Vol-3, Issue -4, July 2014. Impact factor (JCC): 3.276
12. Dhale A. D. & Et.al, "Design, Analysis and optimization of Piston and Determination of Thermal Stresses using CAE Tools", **International Journal of Engineering Science & Research Technology**, ISSN: 2277-9655, May 2014, Impact Factor: 3.449.

13. Dhale A. D. & Et. al, "Design and Development of Intake Pulse Resonance Chamber for Four Stroke Engine", **International Journal of Engineering Development and Research** ISSN: 2321-9939, Vol.-2, Issue-1, March 2014
14. Dhale A. D. & Etl, "CFD Analysis & Simulation of Pin Fin for Optimum Cooling of Mother Board", **International Journal of Engineering Development and Research** ISSN: 2321-9939, Vol.-2, Issue-2, June 2014
15. Dhale A. D. & Etl, "Structural and Thermal Analysis of Brake Disc", **International Journal of Engineering Development and Research** ISSN: 2321-9939, Vol.-2, Issue-2, June 2014
16. Dhale A. D. Shelar S.S. & Etl, "Design and Development of Semi – Automatic Dish Washer", **International Journal of Engineering Research and General Science** ISSN:2091-2730, Vol.- 3, Issue-3, May-June 2015
17. Dhale A. D. Patil N. B. & Etl, " Formulation and Experimental Data Based Model of Flour Mill by using energy source as an HPFM", **International Research Journal of Sustainable Science and Engineering**, ISSN: 2347-6176, Vol.-3, Issue-4, April 2015
18. Dhale A. D. Wartha Nilesh & Etl, "Design and Development of Reciprocating Pump using Human Power", **International Journal of Mechanical Engineering**, ISSN: 2321-6441, Vol.-3, Issue-5, May 2015
19. Dhale A. D. Ahuja Avinash & Etl. "Design and Development of Hovercraft", **International Journal of Scientific Research in Science, Engineering and Technology**, Print ISSN: 2395- 1990 | Online ISSN: 2394-4099, Vol. 2, Issue 2, March- April 2016, pp 709-712.
20. Dhale A. D. ; Davkhar Neha E.; Kadam Vaibhav B.; Nalawade Kiran A.; Shinde Prathmesh R, "Design and Fabrication of Coconut Tree Climbing and Harvesting Robot; Review", **International Journal for Innovative Research in Science & Technology**, Volume 3 Issue – 9, Feb. 2017.
21. Dhale A. D.; Ahire P. K.; Bhoir V. D.; Patil S. A.; Main M. R. "Development of Rice Planting Machine: Review Paper" **International Journal of Innovative Research and Creative Technology**, Volume 2 Issue 6, April-2017, eISSN: 2454-5988, pp 190-193.
22. Atul Dhale, Suraj Gondhali, 'Static structural Analysis of Car Rim by Finite Element Method', Proceedings of International Conference on Intelligent Manufacturing and Automation, Lecture Notes in Mechanical Engineering, **Springer Nature Singapore Pvt. Ltd. 2019**, pp 181 – 193.

	<p>23. Mohammed Rahil Khan, Atul Dhale, “ Design Selection And Analysis of The Chassis / Frame of A Human Powered Vehicle”, International Journal of Application or Innovation in Engineering & Management, Volume 9, Issue 5, May 2020, pp 1 to7.</p> <p>24. Atul Dhale, Swapnil Phadnis, “Microstructure and Roughness Analysis of Drum Brake of Maruti 800”, Proceedings of International Conference on Intelligent Manufacturing and Automation, Lecture Notes Mechanical Engineering, Springer Nature Singapore Pvt. Ltd. 2020, pp 421-426.</p>				
Papers Presented in Conferences	<ol style="list-style-type: none"> 1. Use of Vibration Monitoring and Analysis for Diagnosis of Fault of Rotating Machine – Some Case Studies, at National Conference on Sun Rising Technologies organized by Parshwanath College of Engineering Thane. Date 18-19 NOV. 2005 2. Design & Development of Dynamic Absorber for Rotating Machines, at National Conference C.O.E. Pandharpur. Date 23-24 DEC. 2005. 3. Improving Producability of new Product through Concurrent Engineering at National Conference N.I.T. Raurkela (Orissa). Date 15-16 Jan 2005 4. Formulation of experimental data based model for oil press using HPFM as energy source“ XII IPRoMM National Workshop on Industrial Problems on Machines &Mechanisms “Challenges in Manufacturing” (IPRoMM-2016) at VNIT, Nagpur, and Date- 22 & 23 Dec. 2016. 5. Atul Dhale, Pragati Shelake, “Experimental Analysis for the Vibration Reduction of Steering Wheel Assembly of Agricultural Tractor,” Mahatma Education Society’s Transactions and Journals’ Conference Proceedings on CTFC 2019 ISBN 978-93-82626-27-5. 				
Area of Specialization	<u>Human Powered Machines, Mechanical Vibrations</u>				
PhD Guide ? Give field & University	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">: <u>Field:</u></td> <td style="width: 50%; padding: 5px;"><u>Mechanical Engineering</u></td> </tr> <tr> <td style="padding: 5px;"><u>University:</u></td> <td style="padding: 5px;"><u>University of Mumbai</u></td> </tr> </table>	: <u>Field:</u>	<u>Mechanical Engineering</u>	<u>University:</u>	<u>University of Mumbai</u>
: <u>Field:</u>	<u>Mechanical Engineering</u>				
<u>University:</u>	<u>University of Mumbai</u>				

PhDs / Projects Guided	:	<u>PhDs :</u> <u>Projects at Masters level:</u>	Nil <ol style="list-style-type: none"> 1. AGV Path Planning and Obstacle avoidance Using Dijkstra’s Algorithm. 2. Acoustic Emission Method for Inprocess Monitoring and Optimization of Cutting Parameters by Taghuchi Method In Turning Using Different Fluids. 3. Experimental Analysis for the Vibration Reduction of Steering Wheel Assembly of Agricultural Tractor by using MATLAB.
Books Published / IPRs / Patents	:	Books (Editors for conference Proceedings on Springer)	Books - Nil Patents: - Innovation Application Filed on 19/08/2021 Australian application number: 2021104277 Title: - An Oil Press System and a Method for Oil Extraction Using Human Powered Flywheel Motor as an Energy Source. http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021104277
Professional Memberships	:		<ol style="list-style-type: none"> 1. Life Member of Indian Society for Technical Education. 2. Life Member of Indian Institution of Industrial Engineering. 3. Life Member of Indian Science Congress Association 4. Life Member of Indian Society of Manufacturing Engineering.

Subjects Taught	<p><u>UG Level:</u></p> <ul style="list-style-type: none"> • Mechanics of Materials, • Theory of Machines, • Machine Design –I, Machine Design-II, • Production Tooling, • Universal Human Values, • Finance Management. <p><u>PG Level:</u></p> <ul style="list-style-type: none"> • World Class Manufacturing 	
Projects Guided	<p><u>UG Level:</u></p> <p>72 Projects</p> <p><u>PG Level:</u></p> <ol style="list-style-type: none"> 1. AGV Path Planning and Obstacle avoidance Using Dijkstra’s Algorithm. 2. Acoustic Emission Method for Inprocess Monitoring and Optimization of Cutting Parameters by Taghuchi Method In Turning Using Different Fluids. 3. Experimental Analysis for the Vibration Reduction of Steering Wheel Assembly of Agricultural Tractor by using MATLAB. 	
Recommended Students for Higher Education	<p><u>Name of the Student</u></p> <p>More than 50 students for PG level</p>	<p><u>University/Industry</u></p> <p>Various Universities across USA, Canada, and Germany</p>
Institute/Department Responsibility handled:	<ul style="list-style-type: none"> ▪ Program Coordinator of NBA for Production Engineering Department. ▪ Member of Academic Council DJSCE. ▪ Member of BoS of Production Engineering, DJSCE(Autonomous) ▪ Co-Convener of committee for NAAC accreditation application process in college. ▪ In-charge of criterion 2 for NAAC. ▪ Member of IQAC cell. ▪ Member of Innovation Centre / Entrepreneurship Cell. ▪ Vice-Chairperson of Admission committee and in-charge of conference room during admission of FE and in-charge of DSE admissions. ▪ Worked as Coordinator for Syllabus preparation of Production Engineering of University of Mumbai. 	

Pedagogy Development	<ol style="list-style-type: none">1) Design of Power Screw https://youtu.be/Fhi3xrKq9cQ https://youtu.be/4wK-04AdXRI2) Selection of rolling contact Bearing https://youtu.be/4MF8vdAcS9Q3) Design of clutches https://youtu.be/nKxS1bAxzuY4) Design of sliding contact Bearing https://youtu.be/Qe6bg8_K5205) Gears and Gear Trains https://youtu.be/il6821CXqVQ http://youtu.be/OqJ1vjyEPQ06) Clutches https://youtu.be/gsfUexpWG5w7) Dynamometer https://youtu.be/CV7LzlUzjLE