

CURRICULUM VITAE

Dr. Atul Devidasrao Dhale

Professor

Mechanical Engineering Department

D. J. Sanghavi College of Engineering

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Permanent Address

1103-B wing, Ammber Enncllave, Near Laxmi
Park, Kanchangaon, Thakurli (E) Disst.- Thane
Maharashtra
India

Fields of Research Interest

Design Engineering- Design of Human Powered Machines
Mechanical Vibrations- Modal Analysis of components

Educational Degrees

- PhD** Department of Mechanical Engineering, Priyadarshani College of Engineering,
Rashtrasant Tukdoji Maharaj, Nagpur University, Nagpur. April 2016.
- Thesis:** Formulation of the Approximate Generalized Experimental Data Based Model for
Oil Press using Human Powered Flywheel Motor as an Energy source.
- ME** Department of Mechanical Engineering, Walchand College of Engineering
Sangli, Kolhapur University, 2006, 65.09%
- BE** Department of Mechanical Engineering, Government College of Engineering,
Amravati 66.54%
- HSSC** Adarsh College, Dhamangaon Rly, Distt.-Amravati 73.83%
- SSC** S. F. L. High school Dhamangaon Rly. Distt.-Amravati 79.57%

Present Position

Professor in Department of Mechanical Engineering, D. J. Sanghvi College of Engineering,
Vile parle, Mumbai, (09 Sep. 2021 to till date)

Professional Experience

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)

Experience in Research

Research in Priyadarshani College of Engineering, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur Worked as a Doctoral Research Fellow in the Department of Mechanical Engineering.

Research in Walchand College of Engineering Sangli: Worked as a Post-graduate Scholar in the Department of Mechanical Engineering.

List of Publications

International Journal Papers

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. 2012 pp. 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 (IJAEM)** 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 Volume 4, 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.
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.
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.

List of Conference Papers

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.

Thesis Guided (M.E)

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.**

Workshop Organized

- One Week ISTE Approved Short Term Training Program at Shivajirao S. Jondhale college of Engineering, Dombivli, on **“Research Methodology, Mathematical Modelling and Research Based Industry Institute Interaction Activities in Engineering & Technology”** during 19th- 23rd July 2011.
- One week Faculty Development Program at SVKM’s Dwarkadas J. Sanghvi college of Engineering on **“Industry - Institute Interaction”**, during 28th Nov-2nd Dec 2018.
- One week AICTE-ISTE Approved Short Term Training Program at SVKM’s Dwarkadas J. Sanghvi college of Engineering on **“Challenges and opportunities in Manufacturing Processes in Indian Scenario”**, during 02nd -6th July 2019.
- Worked as Coordinator for online one week FDP by SVKM’s Dwarkadas J. Sanghvi college of Engineering on **“A Journey into the Manufacturing sector in india in view of Industry 4.0 practices and COVID-19”** from 09th June to 13th June 2020.

Workshop Attended

- Two week AICTE Sponsored **Technical Teachers Empowerment programme** at **V.N.I.T. Nagpur** during 5-17 July 2004.
- 43rd National Annual Convention on “**Empowering Technical Education to Address Sustainability and Global Competitiveness**” during 19th - 21st December 2013.
- Online workshop on Universal Human Values on the theme “Inculcating Universal Human Values in Technical Education”, during 13 – 17 May 2020 as organized by **All India Council for Technical Education (AICTE)**.

Course Attended

- One week QIP Short Term Course on INNOVATIVE TRIBO-DESIGN at IIT Mumbai during 15-19 November, 2004.
- **ISTE-AICTE Sponsored STTP on „Application of CFD in Mechanical Engineering“** during March 05-09, 2007 at NMIT, Bangalore.
- Three Day Short Term Course in „**Analysis and Design of Pressure Vessels**“ at **G. S. M. College of Engineering, Balewadi, Pune** during 15-17 June 2009.
- One Day orientation course at on Engg. Drawing at **S.P.C.E. Andheri, Mumbai**.
- AICTE Training and Learning (ATAL) Academy Online FDP on “3D Printing & Design” from 15 to 19 June 2020 at NIT Warangal.
- Online one week FDP on “Computational Tools and Techniques: MATLAB, ANSYS”, sponsored by TEQIP III, organized by GCOE, Karad & Rajkiya Engineering College, Azamgarh, U.P. during 27th April to 1st May 2020.
- One week Online FDP on “Outcome Based Education: A step Towards Excellence”, organized by GCOE, Karad under Margdarshan scheme of AICTE, New Delhi from 11 – 15 May 2020.
- Four week moodle International Faculty Development Program on “Environment and Sustainability” organized by DYP college of Engineering, Pune, Project of UNESCO Chair Slovenia in collaboration with University of Nova Gorica, Slovenia, Europe, during 1st May to 30th May 2020.
- One week AICTE-ISTE Approved Short Term Training Program at SVKM’s Dwarkadas J. Sanghvi college of Engineering on “Challenges and opportunities in Manufacturing Processes in Indian Scenario”, during 02nd -6th July 2019.
- Online one week FDP on “Patenting for Innovations”, organized by SCE, Kopergaon during 25 to 29th May 2020.

- Three days online FDP on “Internet of Things” (IoT) organized by Lendi Institute of Engineering & Technology on 27 to 29 May 2020.
- One week Online FDP on “Spoken Tutorial Technology” organized by SKNCE in association with Spoken Tutorial IIT Bombay from 18 to 22 May 2020.
- One week Online FDP on “Python ” organized by DJSCE, Mumbai in association with Spoken Tutorial IIT Bombay from 03rd to 07th May 2020.
- One week Online FDP on “Improving Teaching Learning Experience Using Best Practices”, organized by DJSCE, Mumbai from 15th June to 19th June 2020.
- One week Online FDP on “Innovation in Additive Manufacturing” organized by Bharati Vidapeeth’s college of Engineering, Lavale, Pune from 13 Sep 2021 to 17 Sep 2021.
- Innovation Ambassador Training conducted by MoE’s Innovation Cell and AICTE during the period from 30th June to 30 July 2021 in online mode.
- Four days course on “Final Stage Preparation of AQAR for Affiliated UG/PG colleges” organized by IQAC Cluster India in collaboration with WhiteCode from 3rd May 2021 to 6th May 2021.
- One week Part1 of the online UHV Refresher1 FDP organized by All India Council of Technical Education (AICTE) from 15 February 2021 to 19 February 2021.
- One week FDP on “Shaping a data science curriculum” organized by SAS India from 22 Feb 2021 to 26 Feb 2021.
- Coursera course on “Learning to Teach Online”. UNSW Sydney (The University of New South Wales) completed on 7th July 2020.
- Coursera course on “AI For Everyone”, deeplearning.ai, completed on 8th July 2020.
- Coursera course on “Six Sigma and the Organization (Advanced), University System of Georgia, **completed on** 8th July 2020.
- Coursera course on “Assessment in Higher Education: Professional Development for Teachers”, Erasmus University Rotterdam, completed on 8th July 2020.
- Coursera course on, “Introduction to Basic Vibrations”, Korea Advanced Institute of Science and Technology (KAIST), completed on 10th July 2020.
- Coursera course on, “Python and Statistics for Financial Analysis”, The Hong Kong University of Science and Technology, completed on 11th July 2020.
- Coursera course on, “Mechanics of Materials IV: Deflections, Buckling, Combined Loading & Failure Theories”, Georgia Institute of Technology, completed on 12th July

2020.

- Coursera course on, “Machine Design Part 1”, Georgia Institute of Technology, completed on 14th July 2020.
- Coursera course on, “Introduction to Engineering Mechanics”, Georgia Institute of Technology, completed on 15th July 2020.
- Coursera course on, “Mechanics of Materials III: Beam Bending”, Georgia Institute of Technology, completed on 16th July 2020.
- Coursera course on, “Mechanics of Materials II: Thin – Walled Pressure Vessels and Torsion”, Georgia Institute of Technology, completed on 26th July 2020.
- Coursera course on, “Write Professional Emails in English”, Georgia Institute of Technology, completed on 03 August 2020.
- Coursera course on, “Mechanics of Materials I: Fundamental of stress & strain and axial loading”, Georgia Institute of Technology, completed on 04 August 2020.
- Coursera course on, “Statistics with SAS”, completed on 07 September 2021.
- SAS course on “SAS Programming 1: Essentials” 22nd July 2020.
- SAS course on “SAS Programming 2: Data Manipulation Techniques” 24th July 2020.
- SAS course on “SAS(R) Enterprise Guide(R): ANOVA, Regression, and Logistic Regression” 05th August 2020.
- SAS course on “Applied Analytics Using SAS(R) Enterprise Miner(TM)” 12th August 2020.
- SAS course on “SAS(R) Visual Analytics 1 for SAS(R)9: Basics” 18th August 2020.
- SAS course on “SAS(R) Visual Analytics 2 for SAS(R)9: Advanced” 20th August 2020.
- NPTEL Online Certification 8 week course in “Mechanism and Robot Kinematics” Sep-Nov 2020.
- NPTEL Online Certification 12 week course in “System Design for Sustainability” Sep-Dec 2020.
- NPTEL Online Certification 08 week course in “Design, Technology and Innovation” Feb-Apr 2021

Research Projects

- Minor Research Grant by University of Mumbai for Project titled “**Improvement of Low End Torque and Fuel Efficiency of 4- Stroke Engine by using Intake Pulse Resonance Chamber**” in 2013-14
- Minor Research Grant by University of Mumbai for Project titled “**Design and Development of Coconut Tree Climbing and Harvesting Robot**” in 2016-17.
- Minor Research Grant by University of Mumbai for Project titled “**Novel Technique of Travelling Wire-Electro Chemical Spark Machining (TW-ECSM) Process for Non-Conducting Materials**” in 2020-21.

Membership of Scientific / Engineering Bodies

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.