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Qualifications with Class / Grade	:	<ol style="list-style-type: none"> <li>1. B.E ( Mech), First with Distinction, Karnataka University Dharwad.</li> <li>2. M.E ( Mechanical Engineering with Machine Design), First with distinction, SPCE Mumbai, University of Mumbai.</li> <li>3. PhD (Mechanical Engineering), VJTI Mumbai.</li> </ol>	
Total Experience in Years	:	<p><b>Teaching</b></p> <ol style="list-style-type: none"> <li>1. Currently an Associate Professor (from July-2018 till date ) and Associate Head (from Feb-2020 till date) in the department of Mechanical Engineering at Dwarkadas J. Sanghvi College of Engineering, Vile Parle, Mumbai.</li> <li>2. Associate professor in the department of Mechanical Engineering at Pillai College of Engineering, New-Panvel, Navimumbai from Jan-2018 to June-2018.</li> <li>3. Assistant professor in the department of Mechanical Engineering at Pillai College of Engineering, New-Panvel, Navimumbai from August-2006 to Dec-2017.</li> <li>4. Lecturer in Agnel Polytechnic, Vashi, Navimumbai from Sept 1998 to July 2006.</li> </ol> <p><b>Industry:</b> Asst. Manager in “SUNIL ENGINEERING” at Hubli Karnataka, from Aug-1997 to Sept-1998.</p>	
Papers Published in Journal:	:	<ol style="list-style-type: none"> <li>1) Khatawate, V. H., Dharap, M. A., Vasudevan, H., Balikai, V. G., &amp; Revankar, P. P. (2025). Stress and Strain Distribution Patterns Around Centrally Elongated Notch in Flat Plate. Journal of Mines, Metals and Fuels, 73(6), 1637–1650. <a href="https://doi.org/10.18311/jmmf/2025/48768">https://doi.org/10.18311/jmmf/2025/48768</a></li> <li>2) Pandit, N., Gupte, A., Vandra, K., Mistry, V., Vasudevan, H., Khatawate, V.H. (2025). Analysis of Two-Stage Helical Gearbox for All Terrain Vehicle. In: Pathak, H., Zafar, S. (eds) Recent Advances in Composite Materials and Structures, Volume 2. CDPMHM 2024. Springer Proceedings in Materials, vol 74. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-96-5707-0_33">https://doi.org/10.1007/978-981-96-5707-0_33</a></li> </ol>	

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[https://doi.org/10.1007/978-981-96-5707-0\\_38](https://doi.org/10.1007/978-981-96-5707-0_38)
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- 6) Kartik Ajugia, Vinayak H Khatawate, Hari Vasudevan. Geometrical, Numerical and Materialistic Parameters used for Studying and Reducing Tube-Side Flow Inconsistency in Tube and Shell Heat Exchangers: An Overview. Journal of Polymer and Composites. 2025; 13(05):603-621. Available from: <https://journals.stmjournals.com/jopc/article=2025/view=217187>
- 7) Bhat, V., Balikai, V.G., Revankar, P.P., Khatawate, V.H., Gorwar, M.B. (2025). Deep Learning Approaches for Vision Transformers Based Detection of Surface Defects in Aluminium Die Casting. In: Pathak, H., Zafar, S. (eds) Recent Advances in Composite Materials and Structures, Volume 2. CDPMHM 2024. Springer Proceedings in Materials, vol 74. Springer, Singapore. [https://doi.org/10.1007/978-981-96-5707-0\\_17](https://doi.org/10.1007/978-981-96-5707-0_17)
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- 9) Vinayak H Khatawate, Hari Vasudevan, Bhavik Kapadia, Krisha Vora, Mann Dave, Prathamesh Desai. Carbon Fiber Impact Attenuator: A Comprehensive Design and Analysis Approach. Journal of Polymer and Composites. 2025; 13(05):452-468.  
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- 57) Giridhar Chavan, Vinayak H. Khatawate “**Artificial Intalligence System For Remotely Controlled Wheeled vehicle System For Disabled Person**”, International Journal of Engineering and Research Applications (IJERA), ISSN:2248-9622, Vol.2, Issue4, June-July 2012, pp.738-741.
- 58) Amreen Shaikh, Vinayak H. Khatawate “**Design and Energy Optimization of Z-Type Chain Conveyor**”, International Journal of Engineering and Research Applications (IJERA), ISSN:2248-9622, Vol.2, Issue4, Jul-August2012, pp.1421-1424.

<p>Papers Presented in Conferences</p>	<ol style="list-style-type: none"> <li>1) Vinayak H. Khatawate “<b>Load analysis of connecting rod for tractor engine</b>”, Proceedings of National Conference on state of the art of technology in Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad during May 5<sup>th</sup> and 6<sup>th</sup>, 2006.</li> <li>2) Vinayak H. Khatawate &amp; Vikram Mane “<b>Finite Element Analysis of Ellipsoidal Head Pressure Vessel</b>” <i>National Conference on Emerging Trends in Engineering &amp; Technology (VNCET-30 Mar’12)</i>.</li> <li>3) Vinayak H. Khatawate, M.A.Dharap, R.I.K.Moorthy, “<b>Validation of Theoretical Stress Concentration Factor for Varying Notched Geometries Using FEA</b>”, Proceedings of International Congress on Computational Mechanics and Simulation (ICCMS-2016), IIT Bombay, Mumbai, June 27-July 1-2016, pp.1248-1251.</li> <li>4) Vinayak H. Khatawate, M.A.Dharap, R.I.K.Moorthy, “<b>Estimation Of Local Stresses And Strains For Notched Geometries Using Non-Linear Analysis</b>”, Proceedings of International Congress on Computational Mechanics and Simulation (ICCMS-2016), IIT Bombay, Mumbai, June 27-July 1-2016, pp.881-884.</li> <li>5) Aditya A. Shinde, Vinakay H. Khatawate, S.N. Kadam, Gopika Vinod, “<b>PSA modeling of multi-unit nuclear power plant</b>”, International conference on current research topics in Power Nuclear and Fuel Energy (PNFE-2016), during 25<sup>th</sup> to 27<sup>th</sup> October- 2016 at St. Peter’s Engineering College, Hyderabad.</li> <li>6) Vinayak H. Khatawate, M.A.Dharap, R.I.K.Moorthy, “<b>Numerical Validation of Theoretical Stress Concentration Factor and Investigation of Inelastic Stresses for Notched Specimens</b>”, International conference on current research topics in Power, Nuclear, Fuel and Energy (PNFE-2016), during 25<sup>th</sup> to 27<sup>th</sup> October-2016 at St.Peter’s Engineering College, Hyderabad.</li> <li>7) Avinash Shaligram, Vinayak H Khatawate, Divya Padmanabhan, “<b>Reaffirming Core Technical Knowledge of Fresh Mechanical Engineers: Need of the Hour</b>”, Fourth International Conference on Transformations in Engineering Education (ICTIEE 2017) organized by Indo Universal Collaboration for Engineering Education and Manipal University Jaipur, 11-12th Jan-2017.</li> <li>8) Vinayak H. Khatawate, M.A.Dharap, R.I.K.Moorthy, “<b>Validation of stress concentration factor and estimation of local stresses beyond yield point of the material for notched specimens</b>”, International Conference on Advances in Thermal systems, Materials and Design Engineering (ATSMDE 2017) organized by Veermata Jijabai Technological Institute (VJTI) Mumbai, 21-22nd Dec-2017.</li> <li>9) Avinash Shaligram, Vinayak H Khatawate, Pruthviraj Rahane, “<b>Bridging the Gap between Knowledge Imparted in UG Curriculum of Mechanical/Automobile Engineering and Industry Work Environment</b>”, Fifth International Conference on Transformations in Engineering Education. (ICTIEE 2018) organized by Indo Universal Collaboration for Engineering Education at Madurai 8-9th Jan-2018.</li> <li>10) Vinayak H. Khatawate, Komal Kadam, “<b>Performance Analysis of Crash box in Automobiles</b>” IEEE Technically Co-Sponsored International Conference on</li> </ol>
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Nascent Technologies in Engineering (ICNTE-2019) organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India, January 04-05, 2019.

- 11) Vinayak H. Khatawate, Aditya Singh, Aditya Tiwari and Omesh Shah “Design and Manufacturing of Shock Pot Mounts for Road Quality Analysis” International Conference on Chemical, Mechanical and Environmental Sciences (ICCMES 2021) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India, March 25-26, 2021.
- 12) Vinayak H. Khatawate, Parva Parikh, Ronak Radadiya, “Stress Analysis of Landing Gear of Boeing 747-400 Aircraft” International Conference on Chemical, Mechanical and Environmental Sciences (ICCMES 2021) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India, March 25-26, 2021.
- 13) Vinayak H. Khatawate, Aniruddha Mallick, Dhaval Bhanushali, Greeshma Gala, “Analysis of rocket nozzle using method of characteristics” International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.
- 14) Vinayak H. Khatawate, Bhavik Panchal, Aditya Devkar, Aditya Jain, Kshitij Jaiswal, “Design and analysis of single-phase Liquid Immersion Cooling (SLIC) for motor controller of a Super-mileage vehicle” International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.
- 15) Vinayak H. Khatawate, Raj Anadkat, Tanmay Parekh, “Optimization of airfoil shape based on lift & efficiency using Genetic Algorithms with PARSEC Method”, International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.
- 16) Vinayak H. Khatawate, M. A. Dharap, Hari Vasudevan, Balikai V.G, Revankar P.P., “Evaluating Stress Distribution in Flat Plates with Dual Semicircular Notches”, 4th International E-Conference on Mechanical and Material Science Engineering: Innovation and Research (ICMMSE:IR 2024) organized by Department of Mechanical Engineering, Sandip Institute of Technology & Research Centre, Nashik on 12th - 13th December.
- 17) Darshit S. Rathod, Hari Vasudevan, Vinayak H. Khatawate, “Optimization of a Lightweight Brake Master Cylinder for Formula Student Vehicle”, Fourth International Conference on Advances in Materials Studies (ICAMS-2024) held on 17-18 December 2024, organized by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune.

	<p><b>18)</b> Mayank Sanjay Gupta, Yash Nitin Sharma, Hari Vasudevan, Vinayak H. Khatawate, “Design and Optimization of Rear Suspension Geometry of an ATV”, Fourth International Conference on Advances in Materials Studies (ICAMS-2024) held on 17-18 December 2024, organized by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune.</p> <p><b>19)</b> Vinayak H Khatawate, Hari Vasudevan, Krisha Vora, Bhavik Kapadia, Mann Dave, Prathamesh Desai, “Torsional Rigidity of a FSAE Spaceframe Chassis”, Fourth International Conference on Advances in Materials Studies (ICAMS-2024) held on 17-18 December 2024, organized by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune.</p> <p><b>20)</b> Advait Jadhav, Shubh Dodia, Ved Chavan, Hari Vasudevan, Vinayak H. Khatawate, “Analysis of an Accumulator of a Formula Student Vehicle”, First International Conference on Advances in Energy and Environmental Engineering 2024 (ICAEEE-2024) held on 17-18 December 2024, hosted by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune, India , India in association with Technology Research and Innovation Centre, Pune.</p> <p><b>21)</b> Ayush P Shah, Vrisha P Shah, Vinayak H Khatawate, Hari Vasudevanv, “Exploring Rocket Engine Power Cycles: An In-Depth Overview”, First International Conference on Advances in Energy and Environmental Engineering 2024 (ICAEEE-2024) held on 17-18 December 2024, hosted by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune, India , India in association with Technology Research and Innovation Centre, Pune.</p> <p><b>22)</b> Kartik Ajugia, Vinayak H Khatawate, Hari Vasudevan, “A review on various methods used for reducing the maldistribution on tube side of shell and tube Heat Exchanger”, First International Conference on Advances in Energy and Environmental Engineering 2024 (ICAEEE-2024) held on 17-18 December 2024, hosted by the Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, India in association with Technology Research and Innovation Centre, Pune, India , India in association with Technology Research and Innovation Centre, Pune.</p>
<p>Doctoral Consortium/ Colloquium/ Poster Presentation:</p>	<ol style="list-style-type: none"> <li>1) Participated in <b>Poster Presentation</b> Organized by Veermata Jijabai Technological Institute (VJTI), Mumbai on 29<sup>th</sup> Feb 2012.</li> <li>2) Participated in <b>Doctoral Consortium and Poster Presentation</b> Organized by Veermata Jijabai Technological Institute (VJTI), Mumbai on 16<sup>th</sup> March 2012.</li> <li>3) Participated in a National level <b>Doctoral Consortium and Poster Presentation</b> Organized by Veermata Jijabai Technological Institute (VJTI), Mumbai on 11<sup>th</sup> January 2013.</li> <li>4) Participated in TEQIP-II sponsored <b>Phd Colloquium</b> for Research Scholars Organized by Veermata Jijabai Technological Institute (VJTI), Mumbai on 15<sup>th</sup></li> </ol>

		<p>and 16<sup>th</sup> April- 2013.</p> <p>5) Participated in <b>Poster Presentation</b> Organized by Veermata Jijabai Technological Institute (VJTI), Mumbai on 5<sup>th</sup> Apr 2016.</p> <p>6) Presented the poster titled “<b>Optimization of Power Screw Material used in Screw Jack</b> ” International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.</p> <p>7) Presented the poster titled “<b>Design of a delta wing glider at low altitudes</b> ” International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.</p> <p>8) Presented the poster titled “<b>Analysis of a Double UV joint considering Ergonomics of the vehicle</b> ” International Conference on Recent Advances on Materials, Manufacturing and Machine Learning (RAMMML-2022) organized by Department of Mechanical Engineering, Yeshwantrao Chavan college of Engineering, Nagpur in association with Institution of Engineers (Maharashtra state centre and Nagpur Local Centre), April 26-27, 2022.</p>
Area of Specialization		Finite Element Methods, Solid Mechanics, Kinematics of Machinery, Machine Design, Reliability Engineering and Engineering Graphics.
PhD Guide. Give field & University	:	<p><b>Field:</b> Approved Ph.D guide in the field of Mechanical Engineering, University of Mumbai.</p> <p><b>University:</b></p>
PhDs / Projects Guided	:	<p><b>PhDs :</b> <b>Ph.D:</b> 02 (Pursuing)</p> <p><b>Projects _____ at PG Level:</b> Guided : 03 Projects</p> <p><b>Masters level:</b> Co-Guided : 07 Projects</p>

Books Published / IPRs / Patents	: <b>Patent/Design registrations</b>	<ol style="list-style-type: none"> <li>1. Design No. 471277-001, for design titled “ELECTRIC RACE CAR CHASSIS”, has been accepted by the Design and Patent office, and published in journal No. 01/2026 on 02/01/2026. (Certificate issued date: 01-01-2026).</li> <li>2. Patent Application No.202221045849 A, for Title “TREE RESEMBLED FIRE COMBAT SYSTEM” has been published in journal No. 11/2024 Dated 15/03/2024.</li> <li>3. Design No. 380794-001, for design titled “TREE SHAPED FOREST FIRE COMBAT SYSTEM”, has been accepted by the Design and Patent office, and published in journal No. 23/2023 on 09/06/2023. (Certificate issued date: 06-06-2023).</li> <li>4. Design No. 381618-001, for the design titled “SMART BACKPACK FOR TREKKING”, has been accepted by the Design and Patent office, and published in journal No. 04/2024 on 26-01-2024. (Certificate issued date: 25-01-2024).</li> </ol>
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	<p><b>Copyrights</b></p>	<ol style="list-style-type: none"> <li>1. Copyright registration No. L-142129/2024, Diary Number: 34281/2023-CO/L with title “DESIGN AND DEVELOPMENT OF MACHINE VICE FOR HOLDING IRREGULAR SHAPED OBJECTS” has been registered by the Copyright office, India on 25-01-2024.</li> <li>2. Copyright registration No.L-151976/2024, Diary Number: 19770/2024-CO/L with title “Thermal and Stress Analysis of Piston and Connecting Rod for Engine Seizure Condition” has been registered by the Copyright office, India on 29-07-2024.</li> <li>3. Copyright registration No.L-153277/2024, Diary Number: 19727/2024-CO/L with title “Analysis of Two-stage Helical Gearbox for All Terrain Vehicle.” has been registered by the Copyright office, India on 06-09-2024.</li> <li>4. Copyright registration No.L-151729/2024, Diary Number: 19722/2024-CO/L with title “Design and Analysis of Differential Bar of a Rover” has been registered by the Copyright office, India on 24-07-2024.</li> <li>5. Copyright registration No. L-151933/2024, Diary Number: 16807/2024-CO/L with title “Structural Analysis of an Ornithopter Wing” has been registered by the Copyright office, India on 26-07-2024.</li> <li>6. Copyright registration No. L-155321/2024, Diary Number: 27400/2024-CO/L with title “Design &amp; Development of a Passive Overhead Exoskeleton” has been registered by the Copyright office, India on 17-10-2024.</li> <li>7. Copyright registration No. L-157890/2024, Diary Number: 26678/2024-CO/L with title “Analysis of a Lightweight Brake Master Cylinder for Formula Student Vehicle” has been registered by the Copyright office, India on 05-12-2024.</li> </ol>
	<p>Books (Editors for conference Proceedings on Springer)</p>	<p>-----</p>

Professional Memberships	:	<ol style="list-style-type: none"> <li>1) <b>ISME</b> (Indian Society of Manufacturing Engineering) Life membership. Membership from 05<sup>th</sup> October 2018.</li> <li>2) <b>ISTE</b> (Indian Society of Technical Education) Life membership. Membership No: LM-52590 from 01<sup>st</sup> May 2007.</li> <li>3) <b>IIIE</b> (Indian Institution of Industrial Engineering, Navimumbai), Life membership. Membership No: <b>SMIIE 10625 (21)</b> from 30<sup>th</sup> Sept-2014.</li> </ol>		
Grants fetched	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Minor Research Grant (University of Mumbai)</b></td> <td>Minor Research Grant (MRG) of Rs.40000/- (Rupees forty thousand only) has been granted by University of Mumbai in the academic year 2019-20. No.APD/ICD/2019-20/762 Dtd. 20<sup>th</sup> March-2020. Project No.863.</td> </tr> </table>	<b>Minor Research Grant (University of Mumbai)</b>	Minor Research Grant (MRG) of Rs.40000/- (Rupees forty thousand only) has been granted by University of Mumbai in the academic year 2019-20. No.APD/ICD/2019-20/762 Dtd. 20 <sup>th</sup> March-2020. Project No.863.
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Interaction with Professional Institutions		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Guest Lectures:</b></td> <td> <ol style="list-style-type: none"> <li>1) Delivered a talk on “<b>Linear Finite Element Analysis: Fundamentals and Engineering Applications</b>” Organized by Mechanical Engineering Department of A.C. Patil college of Engineering, Navi Mumbai on 29<sup>th</sup> October 2025.</li> <li>2) Delivered a talk on “<b>Applications of Linear and Non-linear Finite Element Analysis in Mechanical design</b>” Organized by SAE chapter at DJSCE Mumbai on 28<sup>th</sup> Sept. 2024.</li> <li>3) Delivered a talk on “<b>Fundamentals and Applications of Finite Element Analysis in Mechanical design</b>” Organized by Mechanical Engineering Department of A.C. Patil college of Engineering Navi Mumbai on 03<sup>rd</sup> October 2024.</li> <li>4) Invited as resource person on 08<sup>th</sup> May-19 to talk on “<b>Statistical applications in Reliability Engineering</b>” at ISTE approved one week STTP on “Statistical analysis and its applications in Industry and Research” conducted by ViMEET.</li> <li>5) Delivered talk on “<b>Design of Screw Press</b>” to Mechanical Engineering Students at Saraswati college of Engineering, Kharghar, Mumbai on 04<sup>th</sup> April-2014.</li> <li>6) Delivered talk on “<b>Deflection of Beams</b>” to Mechanical Engineering Students at Saraswati college of Engineering, Kharghar, Mumbai on 07<sup>th</sup> Oct-2013.</li> </ol> </td> </tr> </table>	<b>Guest Lectures:</b>	<ol style="list-style-type: none"> <li>1) Delivered a talk on “<b>Linear Finite Element Analysis: Fundamentals and Engineering Applications</b>” Organized by Mechanical Engineering Department of A.C. Patil college of Engineering, Navi Mumbai on 29<sup>th</sup> October 2025.</li> <li>2) Delivered a talk on “<b>Applications of Linear and Non-linear Finite Element Analysis in Mechanical design</b>” Organized by SAE chapter at DJSCE Mumbai on 28<sup>th</sup> Sept. 2024.</li> <li>3) Delivered a talk on “<b>Fundamentals and Applications of Finite Element Analysis in Mechanical design</b>” Organized by Mechanical Engineering Department of A.C. Patil college of Engineering Navi Mumbai on 03<sup>rd</sup> October 2024.</li> <li>4) Invited as resource person on 08<sup>th</sup> May-19 to talk on “<b>Statistical applications in Reliability Engineering</b>” at ISTE approved one week STTP on “Statistical analysis and its applications in Industry and Research” conducted by ViMEET.</li> <li>5) Delivered talk on “<b>Design of Screw Press</b>” to Mechanical Engineering Students at Saraswati college of Engineering, Kharghar, Mumbai on 04<sup>th</sup> April-2014.</li> <li>6) Delivered talk on “<b>Deflection of Beams</b>” to Mechanical Engineering Students at Saraswati college of Engineering, Kharghar, Mumbai on 07<sup>th</sup> Oct-2013.</li> </ol>
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	<p><b>Other Achievements and Responsibilities:</b></p>	<ol style="list-style-type: none"> <li>1) Received best paper award for the AY-2024-25 titled “Improving Occupational Health Outcomes And Enhancing Job Satisfaction By The Design And Development Of A Passive Overhead Exoskeleton In Industries”, during the 67 National Convention organized by Indian institution of industrial engineering on 9<sup>th</sup> August 2025S at Trivandrum.</li> <li>2) Invited as a Judge on 28/02/25 for digital Poster presentation competition organized by IIC’s Rajiv Gandhi Institute of Technology Mumbai.</li> <li>3) Invited as a Session Chair for the 4th International E-Conference on Mechanical and Material Science Engineering: Innovation and Research (ICMMSE:IR 2024) organized by Department of Mechanical Engineering, Sandip Institute of Technology &amp; Research Centre, Nashik on 12th - 13th December-2024.</li> <li>4) Invited as a Judge on 03/02/23 to assess Poster presentations on innovative ideas organized by IIC’s Rajiv Gandhi Institute of Technology Mumbai.</li> <li>5) Invited as a resource person to conduct orientation to all Mumbai university faculty for the subject Finite Element Analysis (MEC603, MEL603)/(AEC603, AEL603) third year Mechanical and Automobile Engineering, SEM VI (CBCGS) on 17th Januaray, 2019 at D J Sanghvi college of Engineering Mumbai.</li> <li>6) Mentored a student team that secured the Silver Medal and ₹1,00,000 cash prize at Aakruti 2021, organized by Dassault Systems, competing against about 200 teams nationwide.</li> <li>7) Invited as a member by University of Mumbai to prepare the syllabus of First year engineering (Subject: Engineering Mechanics) as per AICTE model curriculum on 8th May, 2019 at 3.00 p.m. The meeting was held at K. J. Somaiya Institute of Engineering and information technology, Sion, Mumbai.</li> <li>8) Invited as an <b>expert committee member</b> on 21<sup>st</sup> July-18 to conduct faculty interviews at Xavier Institute of Engineering Mahim, Mumbai.</li> <li>9) <b>Member of Vigilance squad</b> at the examinations conducted by the University of Mumbai for FH-2018 (May-June-18).</li> <li>10) <b>Member of Vigilance squad</b> at the examinations conducted by the University of Mumbai for SH-2018 (Nov-Dec-18).</li> <li>11) Topper 1% and Gold medal with a consolidated score of 97% for the AICTE recognized 8 weeks (Feb-Apr 2019) NPTEL course on “Basics of Finite Element Analysis”.</li> </ol>
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FDP / STTP/ WORKSHOP  
ATTENDED:

- 1) Successfully completed Six-day Online Faculty Development Program on “Battery Thermal Management System: Design, Optimization and ML Techniques” from 9th to 14th February 2026 conducted by Maharaj Vijayaram Gajapathi Raj College of Engineering, Andhra Pradesh.
- 2) Successfully completed 12 weeks (July-Oct 2025) AICTE recognized NPTEL course on “Industrial Robotics: Theories for Implementation”.
- 3) Successfully completed one-week ISTE Approved Short Term Training Program (STTP) on “Think. Do. Write. Publish. – A Step-by-Step Guide to Research Article” organized from October 27 to 31, 2025 conducted by SVKM’s Dwarkadas J. Sanghvi College of Engineering, Mumbai.
- 4) Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Trends in Cutting-Edge Automotive Technology at ARJUN COLLEGE OF TECHNOLOGY from 18/08/2025 to 23/08/2025.
- 5) Successfully completed the NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Centre, Sant Gadge Baba Amravati University, Amravati (Maharashtra) from 18th December, 2023 to 27th December, 2023.
- 6) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on “Application of IoT in Aerospace Engineering” fom 27/12/2021 to 31/12/2021 conducted by Visvesvaraya Technological University, Karnataka.
- 7) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "Machine Learning Applications in Mechanical Engineering" from 13/12/2021 to 17/12/2021 at Acropolis Institute of Technology and Research.
- 8) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "IoT based Condition Monioring" from 06/12/2021 to 10/12/2021 at Veermata Jijabai Technological Institute VJTI Mumbai.
- 9) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "Green Technology and Sustainability Engineering" from 25/11/2021 to 29/11/2021 at Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur, Maharashtra, INDIA.
- 10) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "3D Printing & Design" from 01/02/2021 to 05/02/2021 conducted by INDIAN INSTITUTE OF INFORMATION TECHNOLOGY TIRUCHIRAPPALLI.
- 11) Successfully completed 8 weeks (Jan-Mar 2021) AICTE recognized NPTEL course on “Kinematics of Mechanisms and machines.
- 12) Successfully completed 8 weeks (Feb-Apr 2019) AICTE recognized NPTEL course on “Basics of Finite Element Analysis” with a consolidated score of 97% (Topper 1% and Gold medal).
- 13) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "Robotics" from 24/08/2020 to 28/08/2020 conducted by Government polytechnic, Harapanahalli Karnataka.
- 14) Successfully completed AICTE Training And Learning (ATAL) Academy’s Online FDP on "Design Thinking" from 30/09/2020 to 04/10/2020 conducted by VJTI Mumbai.
- 15) Successfully completed following SAS certification courses
  - a. SAS(R) Programming 1: Essentials (27<sup>th</sup> and 28<sup>th</sup> July-2020)

	<ul style="list-style-type: none"> <li>b. SAS(R) Programming 2: Data Manipulation Techniques (29<sup>th</sup> to 31<sup>st</sup> July-2020)</li> <li>c. SAS(R) Visual Analytics 1 for SAS(R)9: Basics (03<sup>rd</sup> and 4<sup>th</sup> Aug-2020)</li> <li>d. SAS(R) Visual Analytics 2 for SAS(R)9: Advanced (05<sup>th</sup> and 06<sup>th</sup> Aug-2020)</li> <li>e. Applied Analytics Using SAS(R) Enterprise Miner (17<sup>th</sup> to 19<sup>th</sup> Aug-2020)</li> <li>f. SAS(R) Enterprise Guide(R): ANOVA, Regression, and Logistic Regression (12<sup>th</sup> to 14<sup>th</sup> Aug-2020)</li> </ul> <p><b>16)</b> Successfully completed following online <b>Coursera</b> courses from April-2020 till date</p> <ul style="list-style-type: none"> <li>a. Advanced Instructional Strategies in the Virtual Classroom</li> <li>b. Mechanics of Materials-1</li> <li>c. Mechanics of Materials-2</li> <li>d. Mechanics of Materials-3</li> <li>e. AI for everyone</li> <li>f. Data analytics for Lean Six Sigma</li> <li>g. Machine learning for all</li> <li>h. Assessment in Higher Education: Professional Development for Teachers</li> <li>i. Learning to Teach Online</li> </ul> <p><b>17)</b> Successfully completed online FDP on “Intellectual Property Right” conducted by Tata Consultancy Services at DJSCE Mumbai on 24-Aug-2020.</p> <p><b>18)</b> Successfully completed online FDP on “Connected Vehicles” conducted by Tata Consultancy Services at DJSCE Mumbai on 25-Aug-2020.</p> <p><b>19)</b> Successfully completed online FDP on “A Journey into the Manufacturing Sector in India in view of Industry 4.0 practices and COVID-19” organized by Production dept. of DJSCE Mumbai from 9th to 13th June, 2020.</p> <p><b>20)</b> Attended webinar on CFD for Centrifugal Pump conducted by Imperial College of Engineering and Research, Wagholi, Pune, India on 19-may-20.</p> <p><b>21)</b> Attended webinar on Teachers are Leaders conducted by Bharati Vidyapeeth College of Engineering, Navi Mumbai, India on 23-may-20.</p> <p><b>22)</b> Attended webinar on Design of experiments conducted by Amrutavahini College of Engineering Sangamner on 6-Jun-20.</p> <p><b>23)</b> Successfully completed 5 days National Online Faculty Development Program on “Artificial Intelligence ” organized by Department of Information Technology, Universal College of Engineering under IQAC in collaboration with Brain O Vision Solutions India Pvt. Ltd. &amp; National Youth Council of India held during 22.05.2020 to 26.05.2020.</p> <p><b>24)</b> Successfully completed 8 weeks (Feb-Apr 2019) AICTE recognized NPTEL course on “Basics of Finite Element Analysis” with a consolidated score of 97% (Topper 1% and Gold medal).</p> <p><b>25)</b> Attended 19th ISTE state annual faculty convention 2019 about “<b>Academia Industry Collaboration: Issues, challenges and Opportunities</b>” at A P Shah Institute of Technology Thane Mumbai, on 05th Jan-19.</p>
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|  | <p>26) Attended one week AICTE-QIP sponsored short term course on <b>“Fundamentals and Applications of Fracture Mechanics”</b> organized by Department of Mechanical Engineering, Veermata Jijabai Technological Institute (VJTI) Mumbai from 22<sup>nd</sup> to 27<sup>th</sup> January 2018.</p> <p>27) Attended INUP (Indian Nanoelectronics users program) Familiarization workshop on <b>“Nanofabrication Technologies”</b> conducted by Indian Institute of Technology Bombay from 29<sup>th</sup> Nov to 01<sup>st</sup> Dec-2017.</p> <p>28) Attended Two week ISTE approved workshop on <b>“Engineering Mechanics”</b> conducted by Indian Institute of Technology Bombay from 26<sup>th</sup> Nov to 06<sup>th</sup> Dec-2013.</p> <p>29) Attended Two week ISTE approved workshop on <b>“Engineering Mechanics”</b> conducted by Indian Institute of Technology Bombay from 26<sup>th</sup> Nov to 06<sup>th</sup> Dec-2013.</p> <p>30) Attended Two week ISTE approved workshop on <b>“Introduction to Research Methodologies”</b> conducted by Indian Institute of Technology Bombay from 25<sup>th</sup> June to 04<sup>th</sup> July-2012.</p> <p>31) Attended Two week ISTE approved workshop on <b>“Computational Fluid Dynamics”</b> conducted by Indian Institute of Technology Bombay from 12<sup>th</sup> to 06<sup>th</sup> June-2012.</p> <p>32) Attended Two days ISTE approved workshop on <b>“Writing Effective conference Papers”</b> conducted by Indian Institute of Technology Bombay on 18<sup>th</sup> and 19<sup>th</sup> Feb- 2012.</p> <p>33) Attended Two week ISTE approved workshop on <b>“Heat Transfer”</b> conducted by Indian Institute of Technology Bombay from 29<sup>th</sup> Nov to 10<sup>th</sup> Dec-2011.</p> <p>34) Attended One week ISTE approved, STTP on <b>“Research Methodology, Mathematical Modelling and Research Based Industry Institute Interaction Activities In Engineering and Technology”</b> conducted by Shivajirao S. Jondale College Of Engineering Dombivli, Mumbai from 19<sup>th</sup> to 23<sup>rd</sup> July-2011.</p> <p>35) Attended Two week ISTE approved workshop on <b>“Thermodynamics”</b> conducted by Indian Institute of Technology Bombay from 14<sup>th</sup> June to 24<sup>th</sup> June-2011.</p> <p>36) Attended Two week ISTE approved STTP on <b>“Finite Element Analysis using NASTRAN-PATRAN software”</b> conducted by Pillai’s Institute of Information Technology NewPanvel from 4<sup>th</sup> to 15<sup>th</sup> Jan-2011.</p> <p>37) Attended one week ISTE approved workshop on <b>“Computer Aided design and drafting Tools”</b> conducted by Agnel Polytechnic Vashi, from 15<sup>th</sup> to 19<sup>th</sup> Feb-2011.</p> <p>38) Attended <b>“Workshop on Mechatronics”</b> at Fr.C.R.I.T Vashi Navimumbai</p> |
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		from Oct 28- 30, 2004. 39) Attended training on “Pro-E” at Rolta Mumbai from 03 <sup>rd</sup> to 06 <sup>th</sup> August 05.				
Projects Guided	:	<b>UG Level:</b> Guided : 26+ Projects  <b>PG Level:</b> Guided : 03 Projects Co-Guided: 07 Projects				
Recommended Students for Higher Education		<table border="1"> <thead> <tr> <th><u>Name of the Student</u></th> <th><u>University/Industry</u></th> </tr> </thead> <tbody> <tr> <td>30+ Students</td> <td>All these students are recommended for higher education at USA/European countries.</td> </tr> </tbody> </table>	<u>Name of the Student</u>	<u>University/Industry</u>	30+ Students	All these students are recommended for higher education at USA/European countries.
<u>Name of the Student</u>	<u>University/Industry</u>					
30+ Students	All these students are recommended for higher education at USA/European countries.					
Institute/Department Responsibility handled:		<ol style="list-style-type: none"> <li>1) Working as an Associate head (from Feb-2020 till date) in the department of Mechanical Engineering at Dwarkadas J. Sanghvi College of Engineering, Vile Parle, Mumbai.</li> <li>2) Member of Unfair means committee (From AY: 2019-20 to 2022-23) at Dwarkadas J. Sanghvi College of Engineering, Vile Parle, Mumbai.</li> <li>3) Institute level NAAC Criteria-4 incharge at Dwarkadas J. Sanghvi College of Engineering (from June-2024 till date).</li> <li>4) Institute level NBA Criteria-7 incharge at Dwarkadas J. Sanghvi College of Engineering (from 17/09/2022 till date).</li> <li>5) Institute level MS-Team Co-ordinator at Dwarkadas J. Sanghvi College of Engineering (from May-2020 till date).</li> <li>6) Departmental level IPR Co-ordinator (From July-2022).</li> <li>7) Departmental Ph.D Co-ordinator (From August-2019).</li> <li>8) Departmental NAAC Criteria-5 Co-ordinator (from August-2018 to July-2025).</li> <li>9) Worked as ME (CAD/CAM &amp; ROBOTICS) course Co-ordinator at PIIT NewPanvel from July-2008 to July-2014.</li> </ol>				
Pedagogy Development		---				