

**SNJB's Shri Hiralal Hastimal (Jain Brothers, Jalgaon)**  
**Polytechnic, Chandwad**  
**(All AICTE Approved Programs NBA Accredited)**

Department : Mechanical Engineering



**Faculty Profile**

Prof. D r . Dinesh Vanji Lohar

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| Qualification :                             | PhD (Mechanical Engg)) M.E. (Mech.-Production Engg.) B.E. (Production Engg.)  |
| Designation :                               | Head of Department  |
| Date of Joining :                           | 23/11/1998  |
| Experience :                                | <ol style="list-style-type: none"> <li>1. Teaching: 23 years</li> <li>2. Industrial: 02 years</li> </ol>  |
| Teaching/research Areas :                   | Engineering Metrology, Industrial Fluid power, Manufacturing processess   |
| Courses / Subjects Involved With :          | <p>List semester wise along with course name and code</p> <ol style="list-style-type: none"> <li>1. Engineering Metrology-22342</li> <li>2. Industrial Engineering and Quality Control -22655</li> <li>3. Manufacturing process-22446</li> <li>4. Emerging trends in Mechanical Engg.-22652</li> <li>5. Capstone project -22060</li> </ol>  |
| Staff training/FDP attended in last 3 years | <ol style="list-style-type: none"> <li>1. One week FDP on 3 D printing organised by NITTTR, Chennai</li> <li>2. Completed 4 Week FDP course by NPTEL on product Design and Development</li> </ol>   |
| Paper presentation /conferences attended    | <p><b>Paper published/ presented:</b></p> <ol style="list-style-type: none"> <li>1."Quality Assurance in Technical Education"8<sup>th</sup> Annual convention of Maharashtra &amp; Goa Section, at J.T.M. College of Engineering, Faizpur (Jalgaon) 15-16 Sept.2003</li> <li>2."Lean Manufacturing-A New Success Mantra" National conference on" Innovations in Mechanical Engineering" at J.T.M.College of Engineering, Faizpur (Jalgaon) 29-30 Mar.2007</li> <li>3."Implementation of lean manufacturing for improving Vendor performance" National conference " ETME -09" at M.I.T. College of Engineering,Aurangabad, 5-6 March 2009</li> <li>4." Performance Evaluation of Minimum Quantity Lubrication (MQL) In Hard Turning of AISI 4340 Steel Using CBN Tool" National conference " ETME -09" at M.I.T. College of Engineering,Aurangabad,5-6 March 2009</li> <li>5."Rejection control of Yoke sleeves using Six sigma methodology" National conference " ETME -09" at M.I.T. College of Engineering,Aurangabad,5-6 March 2009</li> <li>6."Kaizen-A breakthrough strategy" National conference "ETME-09" at G.H.Pate College of Engineering, Vallabhavidyanagar (Gujarat), 20-21 March 2009</li> <li>7. "Performance Evaluation of Minimum Quantity Lubrication (MQL) In Hard Turnir of AISI 4340 Steel Using CBN Tool" International conference "Advances in Mechanical Engineering (ICAME-2010) at S.V.N.I.T.Surat (Gujarat), 23-25 Sept.2010</li> <li>8." Skills To be imparted to Engineering students" 43<sup>rd</sup> National Annual Convention</li> </ol> |

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|  | TKIET, Warananagar, Kolhapur, 19-21 December 2013.<br>9. "Graphene composites" International conference held at Govt. College of Engineering, Jalgaon on 20-21/1/2017<br>10. "Literature review of EDM electrodes" International conference held at SNJB' Late. K.B. Jain college of Engineering, Chandwad, 30-31 May 2018   |                            |                    |
| Paper published in journals                      | <p>1. Performance Evaluation of Minimum Quantity Lubrication (MQL) In Hard Turning of AISI 4340 Steel Using CBN Tool" Bonfring International Journal of Industrial Engineering and Management Science, Vol. 3, No. 3, September 2013</p> <p>2. "A Review of Hybrid polymer Bio-composites" D.V. Lohar, P.G. Damle and A.M. Nikalje Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 810, 2nd International Conference on Emerging trends in Manufacturing, Engines and Modelling (ICEMEM -2019) 23-24 December 2019, Mumbai, India</p> <p>3. Lohar D.V., Nikalje A.M., Damle P.G. (2022) "Novel Hybrid Bio Composites of PLA with Waste Bio Fillers". In: Dave H.K., Dixit U.S., Nedelcu D. (eds) Recent Advances in Manufacturing Processes and Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-7787-8_58">https://doi.org/10.1007/978-981-16-7787-8_58</a>.</p> <p>4. Lohar, D.V., Nikalje, A.M., Damle, P.G. (2022). "Novel Hybrid Bio Composite PLA Filaments Reinforced with Bio Fillers for 3D Printing". In: Chaurasiya, P.K., Singh, A., Verma, T.N., Rajak, U. (eds) Technology Innovation in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-7909-4_65">https://doi.org/10.1007/978-981-16-7909-4_65</a> (Scopus)</p> <p>5. D.V. Lohar, A.M. Nikalje and P.G. Damle, "Development and testing of hybrid green polymer composite (HGPC) filaments of PLA reinforced with waste bio fillers", Elsevier, Scopus, Materials Today proceedings: <a href="https://doi.org/10.1016/j.matpr.2022.04.023">https://doi.org/10.1016/j.matpr.2022.04.023</a></p> <p>6. D.V. Lohar, A.M. Nikalje and P.G. Damle, "Synthesis and characterization of PLA hybrid composites using bio waste fillers" Elsevier, Scopus, Materials Today proceedings <a href="https://doi.org/10.1016/j.matpr.2022.08.276">https://doi.org/10.1016/j.matpr.2022.08.276</a></p> <p>7. <b>Book Chapter Publication</b> : Polylactic Acid Composites, Sustainable Biocomposites, Edited by: Pawan Kumar Rakesh (NIT, Uttarakhand) and J. Paulo Davim (University of Aveiro, Portugal) , Volume 18 in the series Advanced Composites, 2024</p> |                            |                    |
| Books published with ISSN/ISBN number :          | <b>Title</b>   | <b>Publication</b>         | <b>ISBN Number</b> |
|  | <b>Industrial Fluid Power</b>  | Galaxy Publications, Miraj | ----               |
|  | <b>Mechanical Engineering Materials</b>  | Galaxy Publications, Miraj | ----               |
|  | <b>Advanced Manufacturing process</b>  | Tech-max Publication, Pune | 978-93-5077-572-2  |
|  | <b>Industrial Fluid Power</b>  | Tech-max Publication, Pune | 978-81-8492-918-8  |
|  | <b>Metrology and Quality Control</b>   | Vision Publication, Pune   | 978-93-5016-261-3  |
|  | <b>Theory of Machine</b>   | Vision Publication, Pune   | 978-93-5016-235-4  |
|  | <b>Thermal Engineering</b>   | Vision Publication, Pune   | 978-93-5016-112-8  |
|  | <b>Basics of Mechanical Engineering</b>  | Gigatech Publication, Pune | 978-81-936504-4-8  |
|  | <b>Industrial hydraulics and Pneumatics</b>  | Techknowledge, Pune        | 978-93-89684-50-6  |
|  | <b>Mechatronics</b>  | Techknowledge, Pune        | 978-93-89684-58-2  |
|  | <b>Tool Engineering</b>  | Techknowledge, Pune        | 978-81-947407-0-4  |
| <b>Emerging trends in Mechanical Engineering</b> | Techknowledge, Pune  | 978-93-5563-207-4          |                    |

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| Participation in MSBTE activities ( RAC/DC/Theory/P R Exam/Curriculum development) | <b>Responsibilities taken in MSBTE Committees</b>   |                |
|  | <b>Activity</b>   | <b>Post</b>    |
|  | MSBTE Staff selection Committee   | Member         |
|  | External Academic Monitoring committee  | Member         |
|  | Curriculum Development for K scheme   | Subject Expert |
|  | MSBTE State Level Quiz competition  | Jury member    |
|  | Resource person for Laboratory management training  | Subject Expert |
|  | MSBTE Paper presentation competition  | Jury member    |
|  | MSBTE State level Quiz competition  | Jury member    |
| List of Projects guided at diploma   | <ol style="list-style-type: none"> <li>1. Gearless bicycle</li> <li>2. Overload auto off system for automobiles</li> <li>3. Development of hole digging attachment for tractor</li> </ol> |                |

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| level last 3 years                            | <ol style="list-style-type: none"> <li>3. Smart trolley for supermarkets</li> <li>4. Seven seater green vehicle</li> <li>5. Smart helmet with alcoholic sensor</li> <li>6. Multipurpose agri sprayer</li> </ol>  |
| Role and responsibilities at institute level  | <ol style="list-style-type: none"> <li>1.NBA Program Coordinator</li> <li>2.Regional Admission Coordinator</li> <li>3.ISTE Chapter Secretary</li> </ol>  |
| Role and responsibilities at department level | <ol style="list-style-type: none"> <li>1.Head of department 2.NBA</li> <li>2 . Criterion 1 and 7 Member</li> <li>3. Newsletter chief Editor</li> </ol>   |
| Major achievements in last 5 years            | <ol style="list-style-type: none"> <li>1. Published two text books for I scheme</li> <li>2. Worked as a Course Expert for curriculum development of MSBTE</li> <li>3. Worked as Course expert for K scheme laboratory manual</li> <li>4. Developed bilingual learning material for MSBTE K scheme</li> </ol> |
| Professional membership if any                | <ol style="list-style-type: none"> <li>1. Life Member of Indian Society for Technical Education (<b>LM ISTE</b>)<br/><b>Membership No: LM34418</b></li> <li>2. Member of Institute of Engineers (<b>MIE</b>) <b>Membership No: M1579635</b></li> </ol>   |
| Additional information                        | Visit my blog: <a href="https://ignitedminds25.blogspot.com/">https://ignitedminds25.blogspot.com/</a>   |