

Faculty Profile

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Designation : Professor
Department : Department of Mechanical Engineering
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About me: Dr. H. N. Divakar is a professor and head of the Department of Mechanical Engineering at the National Institute of Engineering (NIE), Mysuru, India. With over 30 years of experience in teaching, research, and academic administration, also contributed significantly to engineering education and institutional development.

I also served as Head of the Department of Industrial and Production Engineering from 2013 to 2016 and again from 2022 onwards and worked as Finance Officer for the TEQIP-II project, supporting the effective implementation of academic development initiatives. In addition to responsibilities as Chief Mentor of the NIE–AICTE IDEA Lab, promoting innovation, product development, and interdisciplinary projects.

Since December 1, 2025, I have been serving as head of the Department of Mechanical Engineering and actively mentoring undergraduate and postgraduate students and continuing to foster research, innovation, and industry-oriented learning among students and faculty.

Qualification:

B.E, (Mysore University)

M.Tech , (Mysore University)

Ph.D, (Jadavpur University- Kolkata)

Courses Taught:

1. Industrial Engineering & Entrepreneurship
2. Statistical Quality Control
3. CIM and Automation
4. Lean Manufacturing Systems
5. Project Management
6. Introduction/Elements of Mechanical Engineering
7. CAD/CAM
8. Total Quality Management

Publications

- 1) Divakar, H. N., Keerthiprasad, K. S., Mohanakumara, K. C., Rakesh, M., Anjum, N., & Sandeep, B. (2025). Influence of Silicon Carbide on the Glass Transition Temperature of Glass Fiber Reinforced Epoxy Matrix Composites: A DSC Investigation. *Journal of Mines, Metals & Fuels*, 73(12).
- 2) Sandeep, B., Divakar, H. N., & Keerthiprasad, K. S. (2025). Thermo-Mechanical Properties of Synthetic Fibres Filled with Ceramic Filler Reinforced Epoxy Hybrid Composites. *Journal of Mines, Metals & Fuels*, 73(11).
- 3) Sandeep, B., Divakar, H. N., & Keerthiprasad, K. S. (2025). The Effect of Ceramic Additives on the Mechanical Behavior of Carbon or Epoxy Composites. *Journal of Mines, Metals & Fuels*, 73(6).
- 4) Kumar, S., Divakar, H. N., Veerabhadraswamy, C. M., Nandini, T. S., Beeranur, R., Kumar, H. S., ... & Kallimani, A. K. S. (2025). Investigation of Slurry Erosion Wear Behaviour on Coir-Filled Polypropylene Composites. *Journal of Mines, Metals & Fuels*, 73(5).
- 5) Sandeep, B. Dr. H.N Divakar , Dr. Keerthiprasad K S , Mechanical Performance Of Fiber Reinforced Polymer Composites Through Advanced Inorganic Fillers: A Contemporary Analysis, international journal of creative research thoughts (IJCRT)Volume 12, Issue 9 September 2024 | ISSN: 2320-2882.
- 6) Sandeep. B , Dr. H.N Divakar, Dr. Keerthiprasad K S, Coupling Strength and Synergy: Exploring the Mechanical Properties of Epoxy Hybrid Composites with S-Glass and Basalt Fibers Scholars International Journal of Chemistry and Material Sciences DOI: 10.36348/sijcms.2024.v07i05.001

- 7) Sandeep B, Dr. HN Divakar, Dr. KS Keerthiprasad, Chandana R and Chethan G Rao Preparation & characterization of fiber reinforced with ceramic-based filler polymer matrix composites for high-temperature applications, *International Journal of Materials Science* 2023; 4(1): 48-55
- 8) Sandeep B , Dr. K.S Keerthiprasad , Dr. H.N. Divakar , Bhavya V , Dr. Savitha M Fracture Toughness and Mechanical Characterization of Synthetic Fibres Reinforced Polymer Matrix Composites, *Eur. Chem. Bull.* 2023,12(7), 404-418
- 9) Harisha, P., Nanjunadaswamy, H. M., Divakar, H. N., & Raju, B. S. (2023). Physio-Mechanical Properties and Microstructural Characteristics of Friction Stir Welded Aluminium and Copper Plates Using Conical Unthreaded Tool. *Journal of Mines, Metals and Fuels*, 227-234.
- 10) Sandeep, B., Keerthiprasad, K. S., Divakar, H. N., & Savitha, M. Mechanical Investigation of S-Glass/Carbon Fibers Reinforced Epoxy Polymer Matrix Composites. *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249-8958 (Online), Volume-12 Issue-4, April 2023
- 11) Harisha, P. N. H. M., Nanjundaswamy, H. M., Divakar, H. N., & Krishnan, D. (2022). Tensile properties of aluminium and copper alloys friction stir welded joints. *Materials Today: Proceedings*, 54, 223-227.
- 12) Sandeep, B., Suresha, B., & Divakar, H. N. (2021). Fracture toughness of alumina filler filled glass fabric reinforced epoxy composites. *Materials Today: Proceedings*, 43, 1792-1797.
- 13) Vinutha, P., Divakar, H. N., Subbaiah, K. M., & Savitha, M. (2021, October). Preparation and Characterisation of Temperature Regulating Silk Cocoon Extract (Sericin)/PVA Based Smart fabric. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1189, No. 1, p. 012011). IOP Publishing.
- 14) Jayaraj, A., & Divakar, H. N. (2018, June). Robotics in construction industry. In *IOP Conference Series: Materials Science and Engineering* (Vol. 376, No. 1, p. 012114). IOP Publishing.
- 15) Dr. H N Divakar, "Kanban Efficiency Measurement System (KEMS)", *IJSART* -Volume 3 Issue 7 –JULY 2017, 156-159
- 16) Dr. H N Divakar, Deepak R "Enhancement of Supply Chain Efficiency By Extending Kanban System", *IJSART*. Volume 3 Issue 6 - JUNE 2017
- 17) Dr. H N Divakar, Chandrachood B Process capability improvement in pumping element manufacturing, *International journal of research science and management*, 2(6), June 2015, 25-29
- 18) Dr. H N Divakar, Nithin M R Reduction of rejection in diesel fuel injection pumping element, *International Journal of research science and management*, 2(6). June 2015, 30-37,

- 19) Dr. H N Divakar Quality Improvement of Pumping element used in diesel fuel injection, International Journal of Scientific and Research Publications, Volume 4, Issue 7, July 2014, 1-5

Conference Proceedings

- 1) Mr. Sandeep B , Dr. H.N Divakar ‘Influence Of Different Synthetic Fibers On The Mechanical Properties Of Epoxy Based Composites – A Comparative Study” paper ID “80International Conference on Recent Developments in Mechanical Engineering ICRDME- 2023
- 2) Dr. H N Divakar, Asha Jyothi M, Vinutha P, Nanotechnology Enabled Smart Fabrics: International conference for Development and performance evaluation of thermally adaptive smart fabrics paper published in AIP/Materials, 17 th & 18 th January 2020
- 3) Dr. H N Divakar, Asha Jyothi M, Vinutha P, Development and Performance Evaluation, International conference for Development and performance evaluation of thermally adaptive smart fabrics paper published in AIP/Materials, 17 th & 18 th January 2020
- 4) Dr. H N Divakar, Yashwanth Kumar M K Reduction of cycle time to increase productivity of IAD Workstation in Axle Assembly by adapting automation and 5s, International conference on Recent Trends in Materials and Mechanical Engineering - July 2019 scopus indexed and UGC approved journal
- 5) Dr. H N Divakar, Yashwanth Kumar M K Increasing productivity by Automation and 5S for Inter Axle Drive Head Assembly Process Poster Presentation National Conference on Materials, Mechanics Manufacturing and Industrial Engineering April 2019
- 6) Dr. H N Divakar, Sandesh M Implementation of Lean Tools in Processing industry, International Conference on recent research emerging trends in Material and Mechanical Engineering ICRETMME-July 2019
- 7) Dr. H N Divakar, Mohammed Kashif M, Productivity improvement of surface mount technology (SMT line by Analysing 4Ms, National conference on Materials, Mechanics, Manufacturing and Industrial Engineering April 2018
- 8) Dr. H N Divakar, Mohammed Kashif M, Application of Single Minute exchange of Dies Methodology in Surface Mount Technology Line to reduce setup Time, International Conference on Recent Engineering and Technology May 2018 International Journal of Science and Innovative Engineering & Technology
- 9) Dr. H N Divakar, Harshith C N, Study and analysis of fuel system snags in HAWK aircraft National conference on Materials Mechanics, Manufacturing and Industrial Engineering April 2018
- 10) Dr. H N Divakar, Sandesh M Electric Hotspot Sensor Controlled Nitrogen Solenoid (ESNS) Engine National Conference on Materials, Mechanics, Manufacturing and Industrial Engineering April 2018

- 11) Dr. H N Divakar, Deepak R “Enhancement of Supply Chain Efficiency By Extending Kanban System”, Prathibimb 2017, April 2017
- 12) H N Divakar, Prof. B. Ghosh A Comparison on the Properties of Electroless and Electroplated Ni-P Coating, Recent Advances in Mechanical Engineering RAME 2004, K.K. Wagh College of Engineering, Nasik Maharashtra January 16-17, 2004 P MD34-MD38
- 13) Dr. H N Divakar, Kallesh S S, B Suresha and Krishna The effect of impingement angle on erosion rates of polyacetol based composites, International conference on Current Trends in Engineering and Management ICCTEM-2014, 17 th – 19 th , July 2014
- 14) Dr. H N Divakar, Kiran Lakkam Study of Mechanical properties AA8011 processed by CRCS method, International Conference on Advanced materials, manufacturing, management and thermal science, SIT, Tumkur, May 2013
- 15) Dr. H N Divakar, Sandya Value stream mapping for the effective utilization of resource carried out at one of the tyre manufacturing industries National conference Recent Advancement in Engineering & Technology March 2011
- 16) Dr. H N Divakar, Prof. B. Ghosh Experimental Analysis of Electroplating & Electroless Coating of Ni-P and their properties, Recent trends in Design and Manufacturing Technologies-RTDMT 2005, Kumaraguru College of Technology Coimbatore Tamilnadu INDIA March 17-18, 2005
- 17) Dr. H N Divakar, Prof. B. Ghosh Statistical Analysis Method for Predicting the Deposition Rate of Electroless Ni-P Coating, Recent trends in design and manufacturing technologies-RTDMT 2005, Kumaraguru College of Technology Coimbatore Tamilnadu, INDIA. March 17-18, 2005
- 18) Dr. H N Divakar, Prof. B. Ghosh Electroless Coating an option for corrosion resistance for Industrial Application, ‘Product Development with Mechatronics Systems for Global quality’ –PMGQ 2005, Thiagarajar College of Engineering Madurai –Tamilnadu, INDIA May 2-3, 2005 P433-438
- 19) Dr. H N Divakar, Prof. B. Ghosh Surface Roughness of Electroless Ni-P and Ni-B Coating Using Surtronic 3+ Roughness Checker, Product Development with Mechatronic Systems for Global quality’ – PMGQ 2005, Thiagarajar College of Engineering Madurai – Tamilnadu, INDIA, May 2-3 2005 P439-444
- 20) Dr. H N Divakar, Prof. B. Ghosh Multilayer Coating: An Option For Hard Coating, Recent Advances in Mechanical Engineering” –RAME 2004, K.K. Wagh College of Engineering Nasik, Maharashtra January 16-17, 2004 MD 61-MD64