

CURRICULUM VITAE

Personal data

Dr. BHAVIN K BHARATH,
Associate Professor,
Department of Mechanical Engineering,
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Education

Doctorate Degree

National Institute of Technology, Tiruchirappalli (NIT, Trichy). 2022

PG degree

Amrita Vishwa Vidyapeetham, Coimbatore. 2010

UG degree

Government Engineering College, Kozhikode. 2008

Research focuses/Title of dissertation

"Investigations of Ternary Alcohol Blends and Hybrid Nanolubricant on Performance, Emission, Noise and Vibration Characteristics of a SI Engine"

Teaching

Since Dec 2024	Associate Professor, Department of Mechanical Engineering Vidya Academy of Science & Technology, Palakkad, Kerala.
Oct 2023-Dec 2024	Associate Professor, Department of Mechanical Engineering Vidya Academy of Science & Technology, Thrissur, Kerala.
July 2010- Sep 2022	Assistant Professor, Department of Mechanical Engineering Vidya Academy of Science & Technology, Thrissur, Kerala.

Recent Journal Publications

1. **Bhavin K. Bharath**, Arul Mozhi Selvan V. Optimizing Spark-Ignition Engine Performance with Ternary Blend Fuels and Hybrid Nanolubricants: A Response Surface Methodology Study," SAE Int. J. Engines 17(8):(2024).
<https://doi.org/10.4271/03-17-08-0059> (ESCI).
2. **Bhavin K. Bharath** and Selvan V. and , "A Novel Hybrid Nanolubricant for Spark Ignition Engine Application: Studies on Stability, Rheological & Heat Transfer Behavior," SAE International Journal of Advances and Current Practices in Mobility.
<https://doi.org/10.4271/2022-28-0585> (SCOPUS)
3. **Bhavin K. Bharath**, Arul Mozhi Selvan V. An Experimental Investigation on Rheological and Heat Transfer Performance of Hybrid Nanolubricant and Its Effect on the Vibration and Noise Characteristics of an Automotive Spark-Ignition Engine. International Journal of Thermophysics 42, 37 (2021).
<https://doi.org/10.1007/s10765-020-02784-8> (SCI)

4. **Bhavin K. Bharath**, Arul Mozhi Selvan V. & Kanojkumar, P.R. Artificial neural network architecture for rheological property prediction of a novel hybrid nanolubricant for automotive spark-ignition engine. Journal of the Brazilian Society of Mechanical Sciences and Engineering 43, 323 (2021).
<https://doi.org/10.1007/s40430-021-03050-0> (SCIE)
5. **Bhavin K. Bharath**, Arul Mozhi Selvan V. Influence of Higher Alcohol Additives in Methanol-Gasoline Blends on the performance and Emissions of an Unmodified Automotive SI Engine: A Review. Arabian Journal for Science and Engineering 46, 7057-7085 (2021).
<https://doi.org/10.1007/s13369-021-05408-x> (SCIE)
6. **Bhavin K. Bharath**, Arul Mozhi Selvan V. 2020. Effect of Ternary Blends on the Noise,Vibration, and Emission Characteristics of an Automotive Spark Ignition Engine. Energy Sources,Part A: Recovery, utilization and Environmental Effects:46(1), 11073-1094.
<https://doi.org/10.1080/15567036.2020.1788673> (SCI)
7. Aravind,A., Saravanan,S., **Bhavin K. Bharath**, & Arul Mozhi Selvan,V.Investigations on methanol-gasoline-aluminium oxyhydroxide nanoparticle blends on the emission characteristics of an SI engine. Environmental quality management 1-11 (2021).
<https://doi.org/10.1002/tqem.21745> (SCOPUS)

Resource person:

Paper presentation: International - **2**,

Guest lecture delivered: **1**

Handling Editor at SAE International, Peer reviewer at Springer, Wiley etc.