

## Faculty Profile



### **Dr J Pradeep Bhasker**

#### **Assistant Professor (Selection Grade)**

Department of Automobile Engineering,  
Hindustan Institute of Technology and Science

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Total Experience (in years): 03

Research Area: Advanced Combustion Engines, Hydrogen Energy,  
Hybrid Vehicle Powertrain, CFD Modelling, Automotive  
Systems Design

### **Recent Publications:**

Sudarshan G, **Pradeep Bhasker J**, Preetika R, Anand K, “Investigations on NOx and Smoke Emissions Reduction Potential through Water-in-Diesel Emulsion and Water Fumigation in a Small-Bore Diesel Engine”, *SAE*, 2020-32-2312, 2020

Sudarshan G, **Pradeep Bhasker J**, Preetika R, Anand K, “Comparison of Diesel-Water Emulsion and Water Vapor Induction Methods for Simultaneous Reduction in NOx and Smoke Emissions of a Diesel Engine”, *SAE*, 2020-01-5076, 2020

**Pradeep Bhasker**, E.Porpatham, “Effects of compression ratio and hydrogen addition on lean combustion characteristics and emission formation in a compressed natural gas fuelled spark ignition engine”, *Fuel*, Volume 208,15, 2017

**Pradeep Bhasker**, E.Porpatham, "LPG Gaseous phase electronic port injection system on Performance, combustion and emissions of lean burn SI Engine", *IOP conference series: Earth and Environmental science*, International Conference on New Energy and Future Energy Systems (NEFES 2016), Beijing, China (2016)

Ravi, **Pradeep Bhasker**, E.Porpatham, "Effect of compression ratio and hydrogen addition on part throttle performance of a LPG fuelled lean burn spark ignition engine", *Fuel*, Volume 205,1, 2017

**Pradeep Bhasker**, Ravi K, Jim Alexander, E.Porpatham, "CFD Study and Experimental Investigation of Piston Geometry Induced In-cylinder Charge Motion on LPG Fuelled Lean burn Spark Ignition Engine", *Fuel*, Volume 213,1, 2018.

Ashok, K. Nanthagopal, R. Thundil Karuppa Raj, **J. Pradeep Bhasker**, D. Sakthi Vignesh, "Influence of injection timing and exhaust gas recirculation of a Calophyllum inophyllum methyl ester fuelled CI engine", *Fuel Processing Technology*, Volume 167,2017

Alexander, J., Porpatham, E., Krishnaiah, R., Devunuri, S. **J.Pradeep Bhasker**, "Experimental Investigations on the Effect of Alcohol Addition on Performance, Emission and Combustion Characteristics of LPG Fuelled Lean Burn Spark Ignition Engine," *SAE Technical Paper* 2019-26-0085, 2019

Krishnaiah R, Ekambaram P, **Jayapaul PB**, "Investigations on the effect of Piston Squish Area on Performance and Emission Characteristics of LPG Fuelled Lean Burn SI Engine", *SAE*, 2016-28-0123, 2016

Ravi K, Mathew S, **Pradeep Bhasker J**, Porpatham E, "Gaseous alternative fuels for CI engines - a technical review", *International Journal of Pharmacy and Technology*, Vol. 8, Issue No.4, 5257-5268, 2017

Ravi K, Mathew S, **Pradeep Bhasker J**, Porpatham E "Gaseous alternative fuels for Spark Ignition Engines-A technical review", *Journal of Chemical and Pharmaceutical Sciences*, Vol. 10, Issue 1, 2017

Ravi, **Pradeep Bhasker**, Manazir Ahmed Khan, E.Porpatham, "Effects of spark plug configuration on combustion and emission characteristics of a LPG fuelled lean burn SI engine", *IOP Conference series: Materials science and Engineering*, DOI:10.1088/1757-899X/263/6/062070, 2017

Aravind Mohan, Ajith Johnny, Tamilarasu, **Pradeep Bhasker**, Ravi K, "Design and Analysis of Non-Pneumatic Tyre", *IOP Conference series: Materials science and Engineering*, 1757-899X/263/6/062061, 2017

Ashish Ranjan, S Prasanth, Fenin Cherian, **Pradeep Bhasker**, Ravi, "Adaptive Hybrid Control Strategy for Semi-active Suspension System", *IOP Conference series: Materials science and Engineering*, 1757-899X/263/6/062062

Ravi, **Pradeep Bhasker**, Jim Alexander, E.Porpatham, "Influence of cooled exhaust gas recirculation on performance, emissions and combustion characteristics of LPG fuelled lean burn SI engine", *IOP Conference series: Materials science and Engineering*, 1757-899X/263/6/062069, 2017

**Pradeep Bhasker**, Ravi K, Porpatham, "LPG lean characteristics on Performance and Emission of SI Engine-A CFD Study", International Conference on Energy, Environment and Economics, RESD212915 held at UK, 2015.