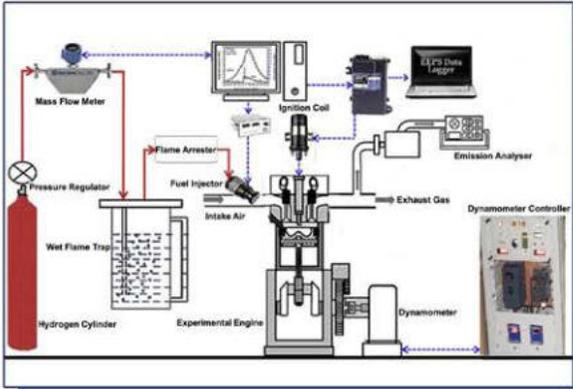


ABOUT THE WORKSHOP



The future mobility will be hydrogen based fuel cells or IC engines. While fuel cells are cleaner and more efficient, combustion engines are easier to adopt using current infrastructure. Hence, hydrogen combustion engines play a strong role in a transition especially where ruggedness and existing technology matter more than absolute efficiency.

The workshop aims to equip participants with a thorough understanding of hydrogen as an alternative fuel in IC engines, covering its combustion characteristics, necessary engine and vehicle modifications, fuel supply systems, safety and regulatory considerations, and the growing hydrogen ecosystem enabling professionals to effectively explore and implement Hydrogen IC Engine technologies.

WORKSHOP HIGHLIGHTS

- Introduction to Hydrogen as a Clean Fuel
- Hydrogen Combustion Fundamentals
- Engine and Vehicle Modifications
- Hydrogen Fuel Supply and Storage Systems
- Safety and Regulatory Considerations
- Hydrogen Ecosystem and Emerging Technologies
- Case Studies and Industry Applications
- Expert Panel Discussions
- Demonstration of hydrogen fuelled SI engine

WHO SHOULD ATTEND

- Automotive Engineers and Technologists
- R&D Professionals
- Academicians and Students
- Government and Regulatory Officials
- Fleet Operators and Transportation Planners
- Startups and Entrepreneurs
- Environmental and Energy Consultants
- Automotive Suppliers and OEMs

WORKSHOP DETAILS

- Venue: Rajaji Hall, Dr. MGR Block, VIT, Vellore
- Date: 20 & 21 Feb 2026 (Friday & Saturday)
- Mode: In-Person

REGISTRATION AND CONTACT

- Registration link : <https://forms.gle/FVcA4dTGkJqDqodY9>



SCAN THE CODE FOR REGISTRATON

- Registration Fees:
 - > VIT Students / Faculty members: Rs. 300
 - > External Participants: Rs. 500
- Payment Information:
 - > Mode of payment: Online transactions
 - > Payment Link: <https://events.vit.ac.in/>



SCAN THE CODE FOR PAYMENT

CONTACT DETAILS

Dr. Suresh Kumar P

Automotive Research Centre
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Email: suresh.kumar@vit.ac.in
Mobile: +91 8848653573
Website: <https://vit.ac.in/>

Working Lunch will be provided on both days.

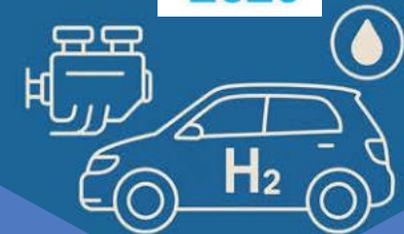
The workshop is aligned with the following SDG goals



ANRF Sponsored Two Day National Workshop on HYDROGEN ENGINES: DRIVING THE FUTURE OF CLEAN MOBILITY

FEBRUARY

20 & 21
2026



Organized by

School of Mechanical Engineering
School of Advanced Sciences
Automotive Research Centre
CO2 Research and Green Technologies Centre
Vellore Institute of Technology, Vellore

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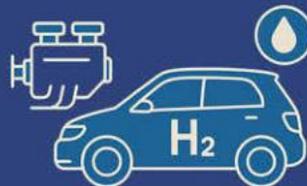
Dr. K K Cheralathan, SAS

Dr. Mallikarjuna Reddy D, SMEC



KEY TOPICS:

- Introduction to Hydrogen as a Clean Fuel
- Hydrogen as a Sustainable Energy Carrier
- AI/ML for Hydrogen Combustion
- Hydrogen Combustion Fundamentals in IC Engines
- Engine Design and Modifications for Hydrogen Use
- Hydrogen Fuel Storage and Supply Systems
- Safety Protocols & Regulatory Framework
- Industry Case Studies & Real-World Applications
- Future Trends in Hydrogen Mobility & Ecosystem Development
- Expert Panel Discussion



SPEAKERS:



Dr. A Ramesh

Professor
Internal Combustion Engines Laboratory
Department of Mechanical Engineering
Indian Institute of Technology-Madras



Dr. RV. Ravi Krishana

Professor
Department of Mechanical Engineering
Indian Institute of Science, Bangalore



Dr. P. Shanmugam

Chief Scientist, Group Leader-
Environmental Engineering and Sciences
CSIR-Central Leather Research Institute
Chennai.



Dr. Ramesh K

Vice President
Turbo Energy Pvt. Ltd.
Chennai



Dr. S. Jayagopal

General Manager
(HoD-EV Technology & Innovations)
Escorts Kubota Ltd, New Delhi



Dr. Sunil Kumar Pandey

Deputy General Manager
Technology & Innovation
Ashok Leyland, Chennai



Mr. Rakesh Mulik

General Manager
Powertrain Design Department
Automotive Research Association of
India-Pune