Faculty Development Program

Title : Recent Innovations in Hydrogen Technology

Date : 13-Feb-2024 - 13-Feb-2024
Time : 10:00 - 17:30
Venue : DR. AMBEDKAR AUDITORIUM

Discussion Points

- Introduction to hydrogen energy and Hydrogen technologies
- Hydrogen production and conversion
- Environmentally sustainable hydrogen
- Storage & carbon capture
- Hydrogen as a future fuel

Resource Person 1 - Details
Name : Dr Vinod Kumar Sharma
Designation : Assistant Professor, Department of Mechanical Engineering
University/ Company : NIT Calicut, Calicut
Address : India, 673601.

Resource Person's Profile :

1. Profile of Dr Vinod Kumar Sharma

Dr. Vinod Kumar Sharma is working as an Assistant Professor in the Department of Mechanical Engineering at National Institute of Technology Calicut, India. His areas of research are Hydrogen Energy, CO2 Capture and Sequestration, Renewable Energy, Heat Transfer, Refrigeration and Air-Conditioning, and Computational Fluid Dynamics. He has completed his PhD from the Indian Institute of Technology Indore, India and MTech from Visvesaraya National Institute of Technology Nagpur, India. He has more

The ongoing global pursuit of sustainable and clean energy solutions has intensified interest in hydrogen technologies as a promising avenue for decarbonizing various sectors. This abstract provides a concise overview of recent innovations in hydrogen technologies, encompassing advancements in production, storage, and utilization. The exploration of novel catalysts, renewable energy sources, and efficient electrolysis methods has significantly contributed to enhancing the competitiveness of hydrogen as a clean energy carrier. Moreover, breakthroughs in hydrogen storage technologies, such as advanced materials and novel storage systems, are crucial for overcoming existing challenges and promoting widespread adoption. As the world strives towards achieving carbon neutrality, the evolution of hydrogen technologies stands at the forefront, offering a glimpse into a future where clean and efficient energy solutions drive global progress.

Sieverts Apparatus setup for PCI Measurements

Coordinator's: Prof. BENEDICT THOMAS 14792 - Associate Professor Sr. - SMEC