

## Patrons:

Dr. Fr. Paul Chandrankunnel, Director  
Fr. Siju Jose, Financial Administrator  
Dr. Fr. Stanly Wilson, Member of Management  
Fr. Roby PA, Member of Management  
Dr. Prashant B. Maheshwary, Principal

## Organizing Committee:

### Coordinator:

Dr. Sushant S. Satputaley  
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### Co-coordinator:

Dr. Milind P. Kshirsagar  
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## Members:

I Dr. V. C. Sontake (9637582119)  
I Dr. B. S. Bhaskar (9011084349)  
I Prof. Atul Saxena (9921858234)

## About the Institute:

Established in 2004 by The Nagpur Pallottine Society, St. Vincent Pallotti College of Engineering & Technology is one of the premier technical institutions in the region and is recognized for its culture of discipline and academic excellence. The society founded by our founder St. Vincent Pallotti has numerous institutions spread across 46 countries and 5 continents. The Institute is granted Autonomy by University Grants Commission & is accredited with grade "A" by NAAC & is approved by AICTE, New Delhi & DTE, and Government of Maharashtra and is affiliated to RTM Nagpur University, Nagpur. Presently Institute offers B. Tech program in eleven disciplines of engineering, five M. Tech. Program and four PhD program in engineering discipline

## About Organizing Department:

Mechanical Engineering department at SVP CET was established from inception of the institute. It is accredited by NBA from 2022 to 2025, New Delhi. It offers the UG course in Mechanical Engineering and post graduate program in Automotive Technology and Doctoral Program in Mechanical Engineering. The department has highly qualified and dedicated faculty and is known for its high academic standard, well-maintained discipline. The department has dedicated Thermal Engineering lab, well equipped with research engine facility test various alternative fuels, also facilitated to measure emissions using flue gas analyzer. The Department has student's chapters of SAE and ISHRAE student's chapters.



## AICTE Sponsored one Week Offline Faculty Development Program On

## "Hydrogen Energy: Pathway to a Sustainable Future"

## 7<sup>th</sup> to 12<sup>th</sup> September-2026

## Organized By

## Mechanical Engineering Department



AN AUTONOMOUS INSTITUTION



[www.stvincentngp.edu.in](http://www.stvincentngp.edu.in)

## Objectives:

This Faculty Development Program is meticulously designed to provide participants with a robust and comprehensive understanding of hydrogen energy and its impact on the sustainable future. The FDP would provide a comprehensive understanding of hydrogen's role in a cleaner energy future, including production methods, transportation, storage, hydrogen utilization and numerous applications. The program would delve into green hydrogen production, its economic and environmental impacts, and the policies and regulations supporting its transition. The FDP will also explore the future trends, safety considerations, and research and innovation in the field of hydrogen energy. Furthermore, the program seeks to foster a vibrant ecosystem of innovation by facilitating meaningful industry-academia collaborations and providing invaluable networking opportunities, empowering participants to stay at the forefront of this rapidly advancing field.

## Target Participants:

Faculty members from Engineering / Polytechnic colleges, PG students, Research scholars, Delegates from R&D and Industries.

### Industry/ Research institute Tie-ups

I Inventys Research Company, Butibori, Nagpur, Maharashtra, India  
I Thermal Engineering lab, SVPCET, Nagpur (Host Institute)

### Registration:

"No Charge for Registration, Course and Certification" Visit the ATAL Academy portal: <https://atalacademy.aicte-india.org/login>  
Create your login ID and password.  
Search for and apply to the FDP titled "Hydrogen Energy: Pathway to a Sustainable Future"

## Resource Persons:

I Dr. Prakash Chandra, Ghosh,  
Professor, Department of Energy Science and Engineering, IIT Bombay, Powai Mumbai.

I Dr Nikhil A. Bhave,  
Assistant Professor, Defence Institute of Advanced Technology, DIAT-DU-DRDO, Girinagar, Pune.

I Dr. (Mrs) Smita A. Acharya,  
Professor , Advanced Material Research laboratory  
Department of Physics & Director IQAC and NAAC  
Coordinator RTM Nagpur University Campus,  
Nagpur.

I Dr. Ashwin Dhoble ,  
Associate Professor, Mechanical Engineering  
Department, VNIT, Nagpur.

I Dr. Aatmesh Jain, Manager, The Automotive  
Research Association of India (ARAI), Pune.

I Mr. Vivek Shastrakar, Production Manager,  
Inventys Research Company, Butibori, Nagpur.

I Dr. Nitant Mate, Chief Research Officer, HyZero  
Energy Ecosystems Pvt Ltd.

I Dr. G. K Awari, HOD Automobile. Engineering,  
Govt Polytechnic Nagpur.

I Dr. Parmanand Bhale,  
Professor & Head, Mechanical Engineering  
Department, SVNIT, Surat.

I Mr. Sameer Bendre, Executive Director, HyZero  
Energy Ecosystems Pvt Ltd.

| Day 1                  | Inauguration Session |                                                                         |
|------------------------|----------------------|-------------------------------------------------------------------------|
|                        | Ses-I                | Renewable Energy Integration for Hydrogen production                    |
| Day 2                  | Ses-II               | Hydrogen Deflagration and Explosion Analysis                            |
|                        | Ses-III              | Fuel Cells & Hydrogen-Based Energy Systems                              |
| Day 3                  | Ses-IV               | Hydrogen energy: India's path to a sustainable future                   |
|                        | Ses-V                | H2 ICE Development: Translating Fuel Chemistry into Engine Architecture |
| Day 4                  | Ses-VI               | Hydrogen and Mechanical Control                                         |
|                        | Ses-VII              | Bio-hydrogen for Self-reliance                                          |
| Day 5                  | Ses-VIII             | Hybrid Energy System with Hydrogen                                      |
|                        | Ses-IX               | Industrial visit, Inventys Research Company, Butibori, Nagpur           |
| Day 6                  | Ses-X                | Biogas reformation to hydrogen rich syngas production                   |
|                        | Ses-XI               | Hydrogen Energy, Policies and Regulations.                              |
| Online Test & Feedback |                      |                                                                         |
| Valedictory Session    |                      |                                                                         |