

Prospective Participants

This workshop is open for participants from academic institutions, including faculty members and research scholars from AICTE-approved technical institutes, as well as industry professionals.

Key Points

- ✓ No registration fee for any participant.
- ✓ Participants will be awarded certificate of participation from ATAL Academy upon meeting the minimum attendance and examination performance criteria.

How to Register

Registration of participants will be done on the ATAL website. <https://atalacademy.aicte-india.org/login>

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Possible Outcomes

- Development of a pool of trained faculty members capable of teaching sustainable refrigeration and HVAC systems in their institutions.
- Introduction of new or updated courses on sustainable cooling technologies in multiple institutions in line with NEP-2020.
- Initiation of research projects and higher studies in the field, promoting innovation and indigenous development in sustainable thermal systems.

Address For Communication

Programme Coordinator (ASRHS 2026)

Department of Mechanical Engineering

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**AICTE's Training and Learning
Sponsored One Week**

**Faculty Development Programme
(ATAL-FDP)**

**Advances in
Sustainable Refrigeration
and HVAC Systems
(ASRHS-2026)**

**on
(Date: 2nd to 7th Nov- 2026)
(OFFLINE)**

**Coordinator
Dr. Soumya Dash**

**Co-Coordinator
Dr. Brundaban Sahoo**



Organized by:

**Department of Mechanical Engineering
C.V. Raman Polytechnic**

Introduction

Sustainability Engineering and HVAC Systems are essential support technologies for variety of applications, including:

- (i) Food Preservation & Cold Chain Systems
- (ii) Healthcare & Medical Sector
- (iii) Industrial Applications
- (iv) Commercial Buildings & Infrastructure
- (v) Data Centres & IT Industry
- (vi) Renewable Energy Integration
- (vii) Automobile & Transport Sector
- (viii) Green Buildings & Smart Cities

However, these emerging technologies are not widely covered in the conventional curricula beyond premier institutions. This FDP aims to bridge this gap by equipping faculties with updated knowledge, enabling them to impart these concepts to students, promote innovation, and support the vision of Atmanirbhar Bharat while fostering sustainability-focused engineering education. It will create a culture of advanced topics in colleges using sustainable refrigeration and HVAC Systems.

Objective of the FDP

- (i) To impart fundamental knowledge of sustainable refrigeration and HVAC systems with focus on energy efficiency and environmental aspects.
- (ii) To enable faculty to integrate these topics into curricula, enhance teaching effectiveness and reducing the gap between industry and academia.
- (iii) To encourage research and innovation in sustainable indigenous development and Atmanirbhar Bharat.

Course Contents

The course will cover fundamental concepts of sustainable refrigeration and HVAC systems, focusing on energy-efficient technologies, green refrigerants, and key applications. It will also introduce emerging trends and research areas supporting indigenous development along with practical exposure through case studies and system analysis.

Resource Persons

The programme will bring together leading experts from across the country with specializations in industry and academia. This team of nationally reputed academicians and scientists will include:

- (1) Prof. (Dr.) Sunil Kumar Sarangi, Retired Professor, IIT Kharagpur
- (2) Prof. (Dr.) Sachindra Kumar Rout, Asso. Prof., CGU
- (3) Prof. (Dr.) Sudhansu Sekhar Sahoo, Associate Professor, OUTF, Odisha
- (4) Prof. (Dr.) Balaji Choudhry, Professor, PMCE, Odisha
- (5) Er. Prabir Kumar Sen, Consulting Engineer - HVAC, ISHRAE
- (6) Er. Jitendra Mishra, Head Mechanical Maintenance, Utilities & Power System, TATA STEEL, Kalinga Nagar, Jajpur, Odisha
- (7) Er. Sourabh Dash, Manager-Chiller Sales, Applied Business East, Daikin Airconditioning India Pvt. Ltd.
- (8) Er. Jyotiranjana Mishra, Deputy Manager Service- Commercial Refrigeration, Haier India Pvt. Ltd.

Selection

There is no registration fee for eligible participants from AICTE-approved institutes. As seats are limited, selection will be on a first-come-first-serve basis, with confirmation communicated via email. Certificates will be awarded only to participants who attend at least 80% of the sessions and secure a minimum of 60% marks in the final assessment. The FDP will be conducted in face-to-face mode.

About The Institute

C. V. Raman Polytechnic is established in the year 2005 in Bhubaneswar, Odisha. The institute is committed to providing quality technical education and is approved by AICTE with NBA-accredited programs. It offers diploma courses in engineering disciplines such as Mechanical, Civil, Electrical, Electronics, and Computer Science with modern laboratories, industry-oriented training, and focus on skill development. The institute aims to produce competent, job-ready technicians and responsible professionals who contribute effectively to industry and society.

C. V. Raman Polytechnic has become a progressive institution in Odisha, setup to promote the highest standards of technical education in the state. The institution aims at moulding a new breed of technocrats with the competitive edge to match both national and international standards. The college aims at educating the students to become not only competent professionals but also excellent human beings, who would contribute towards the welfare of the society and help in raising the quality of life of its people.

About Department

The Department of Mechanical Engineering is an NBA accredited department recognised for academic excellence, advanced infrastructure and industry aligned education. Supported by experienced faculty members, the department offers an exceptional learning ecosystem through state-of-the-art laboratories, including CNC Lathe, CNC Milling, Robotics, CAD CAM, Refrigeration and HVAC facilities. The department has received national recognition through outstanding performances at India Skills and WorldSkills competitions, where students proudly represented India in Welding and Refrigeration and HVAC disciplines. Supported by ICT enabled classrooms, robust industry partnerships and an excellent placement record. The department continues to develop highly skilled professionals equipped for global engineering careers.