

About NMVPM Trust:

Nutan Maharashtra Vidya Prasarak Mandal is a reputed education society in Maharashtra was established 107 years ago in the Maval Region of Pune district. The great freedom fighter Lokmanya Bal Gangadhar Tilak was the founder member and Chairman of its Governing Body. Trust runs 1 Engineering college, 14 schools (CBSC & State Board). Recently, NMVPM has signed an administrative MOU with Pimpri Chinchwad Education Trust (PCET).

About the Institute:

Nutan Maharashtra Institute of Engineering & Technology (NMIET) is an Autonomous institute was established in the year 2008. The institute is approved by All India Council for Technical Education (AICTE), New Delhi, Director of Technical Education (DTE) and Government of Maharashtra. It is affiliated to Savitribai Phule Pune University. NMIET is NBA and NAAC accredited and runs the undergraduate courses, Computer Engineering, Mechanical Engineering, Information Technology and Electronics & Telecommunication Engineering, AI-DS and CSE-AI. NMIET is committed to providing quality technical education to the students.

ATAL Academy:

AICTE Training and Learning (ATAL) Academy was established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

About the Department:

The Department of Mechanical Engineering is NBA accredited. The department believes in delivering the best Market value recent practical based education to their students. The department has highly qualified from NIT's and IIT's and experienced faculty with expertise in the areas of

Thermal, Design, Production, Manufacturing and CAD CAM. The Department continuously encourages their students to participate in various activities like Industry Based Project Work, VLCI, GIZ. Apart from placement, The Department provides a platform to students for Higher Education as well as Entrepreneurship.

About the FDP:

Online ATAL Faculty Development Program (FDP) focusing on the Industry-4.0 in energy, sustainability and climate change. FDP would be incredibly beneficial for educators and researchers in the above field. This specialized program could encompass a wide range of topics essential for advancing the field energy, sustainability and climate change. The FDP will consist of Core Concepts, solar applications, clean energy for automobiles, energy conservation in industry, battery technology, human comfort with energy savings and tribology in energy conservation.

Objectives:

- To understand the role of engineers in climate change mitigation.
- Understand and implement IoT, AI, sensors for smart energy systems.
- Encourage innovation in clean energy, smart management, and resilient technologies.
- Promote collaboration between various engineering fields for sustainability.

Course Contents:

- Various novel and innovative methods/research of renewable engineering.
- Issues & Challenges of energy generation and impact on climate change.
- Recent trends in the energy, sustainability and climate change.
- Various smart techniques and systems for energy savings and climate change mitigation.
- Applications of Natural circulation loops for energy conservations.

Outcomes:

After completing this online FDP, the participants will be able to understand principles, methodologies, and applications of innovative

methods in renewable energy, smart systems and climate change mitigations. Participants contribute to the knowledge of advancement and role of engineers in energy, sustainability and climate change through collaborative research projects, publications, and presentations at conferences and symposiums. Participants explore opportunities for technology transfer and commercialization of innovative ideas and methods of renewable energy, smart systems and climate change mitigations



AICTE Training & Learning Academy Faculty Development Programme (Online)

on

EMERGING TRENDS IN RENEWABLE ENERGY, SMART SYSTEMS, AND CLIMATE CHANGE MITIGATION

Application No: 1749548292

During

24/11/2025 - 29/11/2025

Organized by

**Department of Mechanical Engineering
Department of Information Technology**

**Nutan Maharashtra Institute of Engineering &
Technology, Talegaon, Pune-410507, M.S., India.**

An Autonomous Institute

<https://www.nmiet.edu.in>



Targeted Participants:

Faculty members from AICTE approved institutions, Research Scholars, Industry personnel and PG students, Participants from Government, Industry Bureaucrats / Technicians / Professionals / School Teachers.

Participants who attend at least 90% of the sessions shall be given participation certificate after filling feedback along with assignment completion

- **No charge for registration, Course and Certification.**

- **Mode of Delivery: online**

Resource Persons are from reputed Universities/Industry/Overseas

Registration:

Participants can register for the FDP with ATAL Portal only with following link:

<https://atalacademy.aicte-india.org/login>

Application No: 1749548292_ (ATAL Portal)

Last date for Registration: 21/11/2025

Intimation to selected candidates: 22/11/2025

Requirements to get Certificate:

Continuous Comprehensive Assessment of Candidates shall be carried out and certificate would be issued with criteria mentioned below.

- Registration on ATAL Portal
- Attendance - minimum 80% attendance
- One assessment - combination of MCQs/short answer type/reasoning based, etc. **Score in weighted evaluation 70%**
- Feedback against attended FDP

Resource Persons:

Dr. Ajay Chandak

Innovator, researcher, Consultant.

Topic –Solar energy: sustainability, climate change. (Experience:20Yr)

Dr. Ajay Kumar Yadav

Associate Professor (Exp:23Yr)

Mechanical Engineering, IIT, Patna

Topic – Recent Developments of solar air heaters



Dr. Kumar G.N Professor
MED, NIT Surathkal (Experience:22Yr)

Topic – Clean energy for Automobiles.



Dr. Praveen TR (Exp:11Yr)

Consultant, Founder, Harvester Desk,

Topic—Carbon capture and mitigation of pollution through Industry



Dr. Babasaheb Shinde

Divisional manager (R&D), FORCE Motors, Pune (Exp:32Yr)

Topic—New Hydrogen economy: Hype to Reality



Dr. Purnanand V Bhale

Associate Professor,
Dept. of Mechanical Engineering,
NIT Surat

Topic—Solar Thermal Systems



Mr. Vilas Shewale

Principal Specialist @ Energy Transfer,
(Exp:20Yr), Houston, Texas, United States



Topic— Cyber-Physical Systems and Smart Grids: The Future of Energy Management

Dr. Sanjeev Suryawanshi

Professor & Head
MED, SSVPS COE Dhule



Topic— Next-Gen Renewable Energy Technologies: Innovations and Implementation

Dr. Tabish Wahidi

Sr. Application Engineer Xitadel CAE Ltd Bangalore (Exp:11Yr)



Topics– Sustainable BTMS in EV, Human Comfort and climate change.

Dr. Madagonda K Biradar

Asst.Professor, NMIET,
Pune(Exp:11Yr)



Topic-Recent Development in supercritical CO2 based Solar system.

Mr. Harshal Pawar

Member of Technical Staff II @ VMware |
AWS Data Engineer, Buffalo NY USA
Years of Exp: 10



Topic- Smart Systems for Energy

Mr. Shakti Dnyaneshwar Shekar

Software Engineer, Broadcom, Pune

Years of Exp: 11

Topic- Role of software in energy and climate changes



Dr. Vasudeva M

Professor

MED, NIT Surathkal (Experience:22Yr)

Topic – Clean energy for Automobiles.



Chief Patron:

Hon. Shri. Sanjay (Bala) Bhegade

Ex Minister (Maharashtra Govt.),
President NMVPM



Hon. Shri Rajesh Mhaske

Executive Chairman,
NMIET, Talegaon, Pune



CO-Patrons:

Dr. R. S. Jahagirdar

CEO,
NMIET, Talegaon, Pune



Dr. Pramod Patil

Director,
NMIET, Talegaon, Pune



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Dr. Nitin Dhawas

Professor
IT, NMIET, Talegaon, Pune



Co-Coordinator:

Dr. Satish More

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