

**CHIEF PATRON**  
**Prof. Manish Bhalla**  
**Vice Chancellor, DYPIU, Akurdi**

### **ORGANIZING CHAIRMAN**

**Dr. Anupama V. Patil**  
Director, SEMR, DYPIU

### **CONVENER**

**Dr. Shailesh Ghodke**  
HOD and Associate Professor  
Chemical Engineering  
SEMR, DYPIU

### **CO-ORDINATORS**

**Dr. Sunita Patil**  
Assistant Professor  
Chemical Engineering, SEMR, DYPIU  
**Dr. Kirti Zare**  
Assistant professor  
Chemical Engineering, SEMR, DYPIU

### **ADVISORY COMMITTEE**

- 1. Dr. Sunil Dambhare, IQAC Director**
- 2. Dr. Priya Charles, HOD-Semiconductor**
- 3. Dr. Ganesh Jadhav, HOD - Mechanical**
- 4. Dr. Pravin Gorde, HOD - Civil**

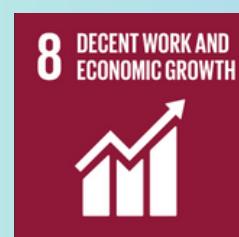
### **ORGANIZING COMMITTEE**

- Dr. Utkarsh Maheshwari
- Dr. Sangeeta Benni
- Mr. Umesh Narkhede

### **RESOURCE PERSONS**

- **Dr. Shirish Manchalwar**  
Senior Research Scientist  
Honeywell Automation, Pune
- **Mr. Adarsh Sambare**  
Data Scientist, Reliance Industries,  
Navi Mumbai.
- **Dr. Tushar Kute**  
Data Scientist, MITU, Pune
- **Mr. Asif Shaikh**  
Senior Business Analyst,  
Bapco Energies, Bahrain
- **Mr. Arunkumar Radhakrishnan**  
Senior Education Manager,  
Autodesk, Pune

### **SUSTAINABLE DEVELOPMENT GOALS MAPPED**



**FIVE DAYS ONLINE FACULTY DEVELOPMENT PROGRAMME**  
on  
**“Applications of Computational Techniques in Process and Manufacturing Industries”**

15-12-2025 to 19-12-2025

**Organized By**  
Department of Chemical Engineering  
School of Engineering, Management and  
Research, D Y Patil International University

**Approved By IICHE**



**D Y Patil International University**  
3rd Floor, J Block Sector 29, Akurdi,  
Pune, Maharashtra. Pin - 411044

[www.dypiu.ac.in](http://www.dypiu.ac.in)

## ABOUT THE UNIVERSITY

At D Y Patil International University, we believe that education must evolve with time. In today's fast-paced world, where industries are constantly redefined by technology, sustainability, and creativity, our university offers a dynamic and interdisciplinary learning environment that goes beyond the classroom. We emphasize practical learning, critical thinking, innovation, and character-building across all programs.

## ABOUT THE DEPARTMENT

B.Tech program in Chemical Engineering at DYPIU is a four-year full-time course. This program has been designed in consultation with academicians, researchers and representatives from various industries. Chemical engineering is a dynamic and multifaceted discipline that provides distinctive attributes and prospects for individuals contemplating it as a professional trajectory. Department offers specialization in Energy & Environment and Computer Aided Chemical Engineering

## ABOUT THE FDP

This FDP is designed to enhance the knowledge and skills of educators, researchers, and industry professional with the modern computational tools and methods. Such a program typically focuses on the integration of advanced techniques like ASPEN, UNISIM, MATLAB, Computational Fluid Dynamics (CFD), Machine Learning, and Optimization Algorithms to solve complex industrial problems. By fostering interdisciplinary learning and collaboration, the program equips faculty members to incorporate computational approaches into their teaching and research

## DEPARTMENT VISION

To provide quality education and create competent chemical engineers by encouraging innovation and creativity in the multidisciplinary sectors.

## DEPARTMENT MISSION

- To provide a contemporary curriculum that integrates core Chemical Engineering and interdisciplinary knowledge
- To foster an innovative culture for problem solving in chemical and allied fields
- To strengthen industry partnerships to improve practical competencies and employability of graduates

## FDP OBJECTIVES

- Encourage participants to apply modern computational techniques in innovative product design projects and process optimization.
- Provide insights into how these tools are applied in process industries (chemical, petrochemical, food, pharmaceuticals) and manufacturing industries (automotive, aerospace, heavy machinery).

## FDP OUTCOMES

- Participants gain proficiency in computational tools and software.
- Ability to apply simulation, modeling, and optimization techniques to real-world industrial problems.
- Strengthened academia-industry linkages through exposure to case studies and industrial applications.



## FDP CONTENTS

- Day 1: Process Design and Development, Mathematical modelling
- Day 2: Machine Learning, deep Learning and natural language processing
- Day 3: Generative Design for Process Equipment, Computational Stress & Fatigue Analysis for Plant Equipment
- Day 4: Applications of AI and Deep Learning in Refinery
- Day 5: Manufacturing Operations and Management Assessment & Valedictory



## IMPORTANT DATE

Last Date of Registration :  
14th December 2025



## REGISTRATION FEE DETAILS

- No participation fees for the FDP
- E-certificates will be issued after attending all sessions, submitting the feedback form and quiz



## REGISTRATION LINK

Session Time - 2:00 PM to 4:00 PM.

<https://forms.gle/1dtL4RQZW5y9fbKk7>



## JOIN WHAT'S APP LINK

<https://chat.whatsapp.com/EW3fKt7N3qGBYajUTGQIaC?mode=hqr1>