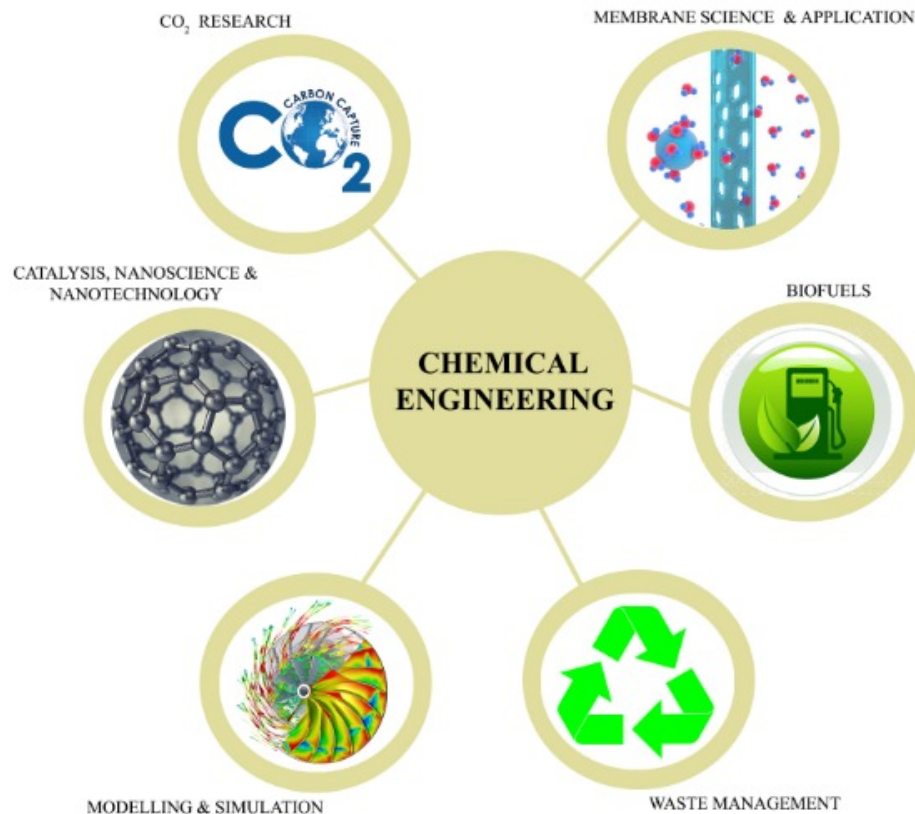


DEPARTMENT OF CHEMICAL ENGINEERING IS FOCUSED ON
FOLLOWING KEY RESEARCH AREAS :



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One Day Workshop On

“Recent Advances in Chemical Engineering”

20th February, 2020



ORGANISED
BY

DEPARTMENT OF CHEMICAL ENGINEERING
SCHOOL OF TECHNOLOGY
IN ASSOCIATION WITH
IIChe STUDENT CHAPTER
PANDIT DEENDAYAL PETROLEUM UNIVERSITY
GANDHINAGAR

ABOUT PDPU

Offering a spectrum of courses ranging from engineering, humanities, and management, Pandit Deendayal Petroleum University's 100-acre campus is located in the capital city of Gujarat Gandhinagar. The institution aims at providing a world-class platform for the creation of knowledge through quality research, focused professionals and faculty and a thoughtful infrastructure to create a perfect learning ecosystem. Driven by the spirit of innovation-led research, the institution aims at making students compatible with the need of the 21st century and to promote the contribution of science and technology for the same. The details about the university are available at www.pdpu.ac.in

ABOUT CHEMICAL ENGINEERING DEPARTMENT

The department of chemical engineering at PDPU is one of the leading chemical engineering departments in the western region of the country. Offering B. Tech, M. Tech and Ph.D. in chemical engineering, the department maintains high standards in teaching, research and innovation and industrial kinship. Being one of the most versatile engineering discipline, Chemical engineering is important for each and every facet of modern and novel society. Understanding the same, the department enrolls the students with judicious application of chemical engineering and promotes for the upliftment of the society and environment. The prime objectives of the department of chemical engineering of PDPU focus on the development of the ability to handle problems of practical relevance of society while complying with economical, environmental and safety factors and to train professionals in ethics, soft skills and leadership qualities. Our outcomes comprise of designing solutions for complex engineering problems and processes that meet the specified needs with appropriate considerations for the public health and safety, societal and environmental considerations.

ABOUT THE WORKSHOP

This workshop serves as a platform for Academicians, Industrialists and Students to learn more about new technologies in the field of Engineering. It will encourage the qualitative and quantitative performance evaluation of the latest, as well as evolving future technologies in Chemical Engineering. Therefore, the workshop aims to provide probable solutions to analyse and tackle the complex and diverse engineering problems by appropriate experimentation, simulation, data analysis and interpretation.

OBJECTIVES OF WORKSHOP

- To cope up with the growing environment in the academia and industries.
- To meet process challenges with advanced sustainable technology.
- Hands on session with various computation tools to optimize the process parameters.
- Hands on demonstration session using sophisticated analytical instrumentation tools.

OUTCOMES

- Acquire skills to optimize process plant parameters.
- Acquire knowledge on working of various analytical instruments.
- Acquire additional key skill sets for employability.

PROGRAM SCHEDULE

Morning Session	
9:30 am onwards	Registration
Inauguration (10:00-10:30 am)	Welcome speech by Dr. Anurag Gupta (Senior Mentor) Overview of workshop by Dr. Swapnil Dharaskar , HOD, Chemical Engg Inaugural address by Prof. Sunil Khanna , Director SOT
10:30-10:45 am	Tea Break
Session I (10:45-11:30 am)	"CO₂ - An opportunity molecule" Dr. Anurag Gupta Former Executive Director, IOCL (R&D) Senior Mentor (Chemical Engg, PDPU)
Session II (11:30-12:15 pm)	"Scope opportunities and challenges of Nano Science & Nanotechnology in 21st century" Dr. Ramesh Guduru Associate Professor (Mechanical Engg, PDPU) Former Faculty Lamar University, Beaumont, USA
Session III (12:15 - 1:00 pm)	"Biofuels – Current scenario, scope and challenges" Dr. Pravin Kodgire Associate Professor (Chemical Engineering, PDPU)
1:00 - 2:00 pm	Lunch Break
Afternoon Session	
Session IV (2:00 - 3:00 pm)	Hands on session on "Design aspects in Process Industries using Aspen Plus"
3:00 - 5:00 pm (Parallel session)	<ul style="list-style-type: none">➤ Synthesis and characterization of Ultrafiltration membranes for wastewater treatment➤ Detection of organic and inorganic water contaminants using UV-Visible spectrophotometer➤ CO₂/CH₄ gas analysis using Gas Chromatography for Bio CNG application.➤ Physicochemical characterization of materials using Particle size analyzer, Digital Density meter, Brookfield Viscometer.
5:00 – 5:15 pm	Open Session
5:15 – 5:30 pm	Vote of thanks and Certificate Distribution
5:30 pm onwards	High Tea

ORGANISING COMMITTEE

Patron
Prof. Sunil Khanna
Director,
School Of Technology

Chairman
Dr. Swapnil Dharaskar
Head,
Department Of Chemical Engineering