

ABOUT THE UNIVERSITY

Pandit Deendayal Energy University's 100-acre campus is located in Gandhinagar, which is the capital city of Gujarat and located 23 Km North from a well-developed city called Ahmedabad with a population of 8 million people. The city is famous for its remarkable cultural development and social life.

PDEU offers multiple courses ranging from engineering, arts and management along with maximum exposure and opportunities to its students through various national and international exchange programs with Best Universities worldwide. For development of its faculties and staff the University endeavors for various Joint Exchange and Research programs.

ABOUT DEPARTMENT OF CHEMISTRY

Department of Chemistry provides its students with the latest scientific knowledge, technology, innovative mind thinking approach and guidance which they embark upon in their careers. Our department believes in nurturing the students, and helping them to develop advanced skills to be life-long learners in their respective fields.

The department offers various undergraduate, and postgraduate courses in Chemistry. Also, it is highly active in the diverse areas of research (specialized and interdisciplinary areas).

Consisting of highly skilled faculty and equipped with high profile instruments, the department puts great efforts in bringing out the best out of its students.

ABOUT BVPEF

BV Patel Education Foundation (formerly known as Shri Bhupendra V. Patel Education Foundation and earlier known as Shri B.V. Patel Education Trust), is named after the First Drug Controller of Gujarat State Shri Bhupendrabhai V. Patel. Vision and Mission of the Foundation are to organize and conduct educational programs in the field of pharmacy and allied sciences and to support pharma industry and academia with skilled manpower, scientists, technocrats and management professionals. Foundation also conducts Certificate Courses for pharma and allied science graduates to prepare them for industry oriented skilled human resources.



Organizing Committee

Coordinators : Dr. Syed Shahabuddin
Assistant Professor, Dept. of
Chemistry, SoET, PDEU

: Dr. Rama Gaur
Assistant Professor, Dept. of
Chemistry, SoET, PDEU

Organized by : Department of Chemistry,
School of Energy Technology,
PDEU

Collaborator : BV Patel Education Foundation
(BVPEF)

HANDS ON WORKSHOP ON BIONANOMATERIALS

Synthesis, Characterization and
Biomedical Applications

23rd -27th November 2026

*UG & PG students, Ph.D. scholars, faculty,
researchers, industry professionals and other
interested individuals can apply*



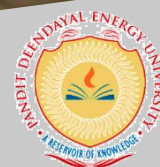
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ORGANIZED BY
DEPARTMENT OF CHEMISTRY
SCHOOL OF ENERGY TECHNOLOGY
PANDIT DEENDAYAL ENERGY UNIVERSITY
Gandhinagar, Gujarat-382426
INDIA

www.pdpu.ac.in

**LIMITED SEATS (20
PARTICIPANTS ONLY)**



IN COLLABORATION WITH
BV PATEL EDUCATION FOUNDATION
THALTEJ, AHMEDABAD – 380054

<https://www.bvpedufoundation.com>;

+91-9106848562

Schedule

DAY 1 · 23 Nov Nanomaterials

- Registration & Inaugural: overview of the program
- Introduction to bionanomaterials
- Synthesis and characterization of nanomaterials
- Hands-on session: Synthesis of metal/metal-oxide nanoparticles

DAY 2 · 24 Nov Hydrogels

- *In vivo* evaluation of biomaterials for biomedical applications
- Hydrogels: Synthesis, characterization and applications
- Hands-on session: Synthesis and characterization of hydrogels

DAY 3 · 25 Nov Polymers & Spectroscopy

- Chromatographic techniques for biomaterial characterization
- IR, UV & XRD for biomaterials
- Conducting polymers: Synthesis and applications
- Hands-on session: Synthesis of conducting polymers

DAY 4 · 26 Nov NMR, XRD, IR & UV

- NMR spectroscopy for biomaterials, with hands-on session
- Hands-on session: XRD, IR and UV-Vis analysis

DAY 5 · 27 Nov Bio-assessment

- *In vitro* assessment of biomaterials
- Hands-on session: Hemocompatibility and antioxidant analysis
- Group discussion



Vision

The workshop envisions training UG, PG students, PhD scholars and industry professionals in the synthesis and evaluation of bionanomaterials, making them future-ready to contribute to biomedical materials research and development.

Aim of the workshop

This workshop is an exploration of bionanomaterials for faculty, research scholars, students and industry participants. Through hands-on laboratory sessions, participants learn to synthesize nanoparticles, hydrogels and conducting polymers, characterize them using IR, UV-Vis, XRD, NMR and chromatography, and evaluate them for biomedical use through *in vitro* and *in vivo* approaches. Sessions are led by experienced experts and PDEU faculty active in the area.



Registration Details

Open to UG & PG students, PhD scholars, faculty, researchers and industry professionals

REGISTRATION FEE:

UG/PG Students	: Rs. 1500/-
Research Scholars	: Rs. 2000/-
Academicians/Industry	: Rs. 4000/-

Registration fees include workshop materials, certificate of participation, breakfast, high tea and lunch.

Speakers

- Dr. Syed Shahabuddin (PDEU)
- Dr. Rama Gaur (PDEU)
- Dr. Mukesh Dhanka (IIT, Gandhinagar)
- Dr. Snehal Patel (Nirma University, Ahmedabad)
- Dr. Haider Abbas (GBRC, Gandhinagar)
- Dr. Jeba Singh (PDEU)
- Dr. Zenab Darban (PDEU)
- Krutarth Raval (GBRC, Gandhinagar)



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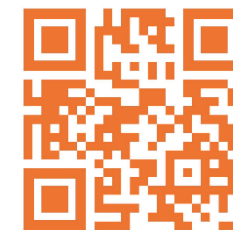
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Link for Registration

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Scan the QR code for registration



Last date for Registration:
10th November, 2026