## Short-Term Training Program

on

# Pedagogy, Assessment, and Case-Based Teaching Skills in Science for Higher Education

3rd–7th November, 2025 | Online Mode

ORGANISED BY


**Inter University Centre for Teacher Education**

**BHU, Varanasi, Uttar Pradesh**

## Introduction

The landscape of higher education, particularly in the sciences, is undergoing a significant transformation. Moving beyond traditional lecture-based methods, there is a growing imperative to adopt innovative pedagogies that foster critical thinking, problem-solving skills, and deep conceptual understanding among students. The National Education Policy (NEP) 2020 champions this shift, emphasizing learner-centric approaches, experiential learning, and the integration of effective assessment techniques that measure application rather than just rote memorization.

Recognizing the need to empower educators with these modern teaching competencies, the Inter University Centre for Teacher Education (IUCTE), BHU, Varanasi, is organizing a five-day Short-term Training Program on "Pedagogy, Assessment, and Case-Based Teaching Skills in Science for Higher Education." Scheduled from 3rd to 7th November 2025, this program is designed for faculty members and researchers in science disciplines from Higher Education Institutions across India. The workshop will provide hands-on training in designing effective lesson plans, implementing active learning strategies, crafting robust assessments, and mastering the art of case-based teaching to make science education more engaging and impactful.

This initiative is deeply aligned with the vision of NEP 2020. Policy advocates for the use of innovative teaching methodologies to enhance the quality of education, especially chapter 15, while several chapters highlight the importance of building strong teaching-learning, assessment, and 21st-century skill processes. By equipping educators with advanced pedagogical tools and assessment methods, this program directly supports NEP's goals of promoting holistic education, fostering 21st-century skills, and improving learning outcomes across higher education institutions.

Over five days, participants will engage in interactive sessions, collaborative discussions, and practical exercises. They will learn to design curricula aligned with learning outcomes, integrate technology for enhanced learning, develop various formative and summative assessment tools, and create compelling case studies relevant to scientific concepts. The program will focus on translating theoretical pedagogical knowledge into actionable classroom practices.

A key feature of this program is its practical and participant-centric approach. It is designed for educators at all levels of experience—from those new to innovative teaching methods to those looking to refine their skills. By the end of the workshop, participants will have developed a portfolio of ready-to-use teaching resources and will become part of a community of practice dedicated to excellence in science education.

## Objectives

- To equip participants with contemporary pedagogical strategies for effective science teaching in higher education.
- To enhance skills in designing and implementing a variety of assessment methods to evaluate student learning authentically.
- To provide hands-on training in developing, implementing, and facilitating case-based learning sessions in science disciplines.
- To promote the integration of technology and active learning techniques to create an engaging and inclusive classroom environment.
- To foster a community of educators for sharing best practices and innovative teaching ideas.

## Program Themes

- Reimagining Science Pedagogy: From Passive Learning to Active Engagement.
- Designing Effective Learning Outcomes and Lesson Plans for Science Courses.
- Innovative Assessment Techniques: Rubrics, Peer Assessment, and Competency-Based Evaluation.
- Introduction to Case-Based Teaching: Methodology and Development of Science Cases.
- Integrating Technology and Digital Tools for Enhanced Science Education.

## Mode of Program: ONLINE (Google Meet)

## Important Dates

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| **Registration Start Date** | **09/09/2025** |
| **Registration End Date** | **25/10/2025** |

**Registration Fee: Free**

**Registration Link: https://iucte.ac.in/program/**

## Note:

- The program will be conducted online via Google Meet.
- Limited seats available—registration will be confirmed on a first-come, first-served basis.
- Participants are required to have stable internet connectivity and a digital device (laptop/desktop).

## Organizing Committee

**Patron**

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