

# *Certificate Course on Educational Technology*

**Offered by:** Sanskriti University, Mathura in association with WeServe: An Initiative To Serve The Unserved, Vaishali (UP)

**Duration:** Three Month

**Eligibility:** Any graduate and currently pursuing students

**Mode of Delivery of the Course:** Online/Hybrid

## *Course Module for Three Month Certificate*

### *Course on Educational Technology*

#### **Introduction**

The rapid advancement of technology has revolutionized various sectors, and education is no exception. As online platforms become increasingly integral to the learning environment, many educators find themselves in need to adopt new tools and strategies to deliver effective lessons. While teachers are often experts in their respective fields, many lack the technical expertise to harness technology in a seamless and effective way. Traditional teacher training courses have not adequately addressed this need, leaving many educators ill-prepared to incorporate technological tools into their teaching practices.

This **three-month** certificate course on Educational Technology aims to bridge this gap by providing teachers with the theoretical and practical knowledge necessary for effectively integrating technology into their teaching practices. This course is designed to cater to both school teachers and university instructors, ensuring that they not only become proficient in using technological tools but also learn how to design and deliver engaging and impactful online lessons.

#### **Need for the Course**

In the current educational landscape, the need for technological proficiency among educators is more pressing than ever. Teachers are often expected to engage students both in traditional classrooms and online

platforms, and many find it challenging to adapt their content to a digital environment. This course is necessary to:

1. **Enhance Teaching Efficiency:** Technology can streamline administrative tasks, plan teaching sessions, provide new teaching methods, and enhance student engagement.
2. **Equip Teachers with Practical Skills:** Teachers need practical, hands-on training to integrate technology into their teaching, creating interactive and engaging lessons and assessments for students.
3. **Support Diverse Learning Needs:** Technology allows teachers to cater to diverse learning styles, needs, and paces, making education more inclusive.
4. **Bridge the Knowledge Gap:** Traditional training programs often neglect the integration of technology. This course fills that gap and ensures teachers are equipped to teach in a modern, technology-driven environment.

## Course Objectives

The course is designed with the following primary objectives:

### 1. Theoretical Framework for Technological Input in Teacher Training:

- Understand the role of technology in modern education.
- Explore the impact of technology on pedagogical methods.
- Develop a theoretical foundation for integrating technology into the classroom and beyond.
- Understanding the concept and application of ICT.

### 2. Practical Components and Online Practices:

- Provide hands-on training with various digital tools and platforms.
- Equip teachers with the ability to design and deliver online lessons effectively.
- Foster the development of interactive learning materials (videos,
  - presentations, quizzes).
- Enable teachers to manage virtual classrooms and engage students online.

## Curriculum Design

The Three-month course will consist of theoretical learning and practical application. The curriculum will be divided into modules, each focusing on a different aspect of educational technology. The course will combine live online sessions, self-paced learning, and practical assignments to ensure comprehensive learning.

## The Curriculum for Three Month Certificate Course in Educational Technology shall be as under:

### **MODULE 1 Introduction to Educational Technology**

- **Educational Technology:** Understanding the concepts of Educational Technology, ICT, e-learning and other related concepts like remote teaching, online teaching, blended learning, flipped learning, Hybrid Learning, Virtual Classrooms
- **ICT Tools:** Microsoft office, Google Apps and freemium or open-source tools
- **Open Educational Resources (OERs) and Free and Open-Source software (FOSS):** content creation using OERs and FOSS tools.
- **Teaching Strategies with ICT tools**

#### **Assessment:**

A module-based quiz to be given

Assignment: Create a quiz on any topic of Your area with minimum 10 questions of minimum three types

Find out an opensource video/ infographic/ audio relevant to the topic you have chosen for quiz

### **MODULE 2 Digital Pedagogy for 21st Century Skills**

- **Digital Learning Platforms:** DIKSHA, Geogebra, PhET, Virtual labs and others
- **elearning : Instructional Design:** ADDIE Model
- **Digital tools for Teachers (Content Creation)** Audio, Video, Images/ infographics, Multi-media integration (Tentative tools: Audacity, Open Shot Video Editor, Canva)

#### **Assessment:**

A module based quiz to be given

Assignment: Create a 2-5 minute Video covering the same topic you have chosen in Module 1  
Assignment with separately recorded and edited audio, some infographics, music and sound effects.

## MODULE 3 Assessment through Technology and Emerging Technologies

- **Assessment tools in online or digital learning:** Hot potatoes, H5P, wordwall
- **Various AI tools for teachers:** Tools of AI, prompts for lesson plan
- **Understanding MOOCs:** components, platforms available, our preparedness
- **New Technologies:** Augmented Reality, Virtual tours, Simulations...

### Assessment:

A module based quiz to be given

Assignment: Create a quiz (10 questions) / interactive video on the same topic or connected topic

Create a one credit or two week MOOC on Moodle or Canvas using the content created/ open source content searched by you during the assignments.

## Assessment

- **Assignments:** Practical assignments and quizzes after each module to ensure understanding.
- **Final Project:** Teachers will design an online lesson plan or course using the skills and tools learned during the course.
- **Peer Feedback:** Participants will give and receive feedback on course designs to encourage collaboration and learning from peers.

## Outcome

This course will empower teachers/ trainers with the knowledge and skills necessary to integrate technology into their teaching practices, enhancing their ability to deliver engaging, effective, and modern lessons. By the end of this course, participants will not only be proficient in using technology but will also be better equipped to create dynamic and student-centered learning environments that meet the needs of the 21st-century learner.

## Course Fee

The course fee shall be as under:

<b>Program Name</b>	<b>Duration</b>	<b>Delivery Mode</b>	<b>Fee</b>
<b>Certificate in Educational Technology</b>	<b>3 Months</b>	<b>Online / Blended</b>	<b>₹ 30,000</b>

As the saying goes, "A teacher who knows technology will certainly replace a teacher who is ignorant of it "!!