

## **Teaching Strategies and Educational Technology**

**Course Code:** EDU- 506.

**Credit Hours:** 04

### **Introduction:**

Technology is the application of scientific knowledge for the welfare of humanity. If we use this scientific knowledge for the welfare of students and teachers (for better teaching and learning purposes) it becomes educational technology. Many new technologies have emerged with the passage of time. Each technology brings new challenges and opportunities. Sometimes they revolutionize the world e.g. as computer technology has revolutionized the 20<sup>th</sup> & 21<sup>st</sup> centuries.

### **Objectives:**

After the successful completion of this course the trainee teachers will be able to:

- Understand the applications of different technologies in teaching learning process
- Evaluate the role and importance of technologies in teaching- learning process
- Select a suitable technology for transmitting information relevant to a particular topic of a particular subject
- Plan lessons identifying appropriate technologies and methods to deliver those lessons effectively
- Understand and apply of different methods and techniques of teaching
- Develop and exhibit better pedagogical skills (teaching skills)
- Comprehend recent trends, problems and issues in the use of modern technologies and teaching methods in our local context

### **Course Outline**

#### **Part- I**

#### **1. Teaching**

- 1.1. Concept of teaching : Structure and features
- 1.2. Professionalism in teaching
- 1.3. Teaching as an art or science
- 1.4. Teaching competence
- 1.5. Effective teaching or effective teacher

#### **2. Methods and Techniques of Teaching**

- 2.1. Introduction: What are the methods, approaches and techniques of teaching?
- 2.2. Lecture method and Expository teaching method
- 2.3. Discussion method
- 2.4. Demonstration method
- 2.5. Micro-teaching method
- 2.6. Programmed instruction

- 2.7. Role play method, Simulations and games
- 2.8. Discovery and inquiry methods
- 2.9. Team teaching method
- 2.10. Project method, Activity and play way method
- 2.11. Problem solving method
- 2.12. Advance organizer
- 2.13. Brain Storming
- 2.14. Super Learning

### **3. Lesson Planning as a Teaching Tool**

- 3.1. Meaning and importance of lesson planning
- 3.2. Types of lesson planning
- 3.3. Approaches to lesson planning
- 3.4. Elements of lesson planning,
- 3.5. Different Formats of Lesson Plans
- 3.6. Using lesson plan in teaching (Herbartian approach, John Dewey and Kilpatrick approach,)

## **Part- II (Educational Technology)**

### **4. Introduction**

- 4.1. Meaning and definition of educational technology
- 4.2. Origin of educational technology
- 4.3. History of educational technology
- 4.4. Types of educational technology
- 4.5. Components of educational technology
- 4.6. Classification Of AV-aids
- 4.7. Merits and demerits of educational technology in the field of education

### **5. Types of Educational Technologies, Media and Their Uses in Learning Process**

- 5.1. Introduction: Basic concepts
- 5.2. Radio, Tape-Recorder,
- 5.3. Television and video, Educational telecasting
- 5.4. Videotext and electronic mail
- 5.5. Interactive video
- 5.6. Projectors: types and uses
- 5.7. Computer, Internet and intranet
- 5.8. Multimedia
- 5.9. Language laboratories

- 5.10. Models and modeling
- 5.11. Board work: Bulletin and flallen boards
- 5.12. Use of locally available low cost material of educational technology'
- 5.13. Use of Mass Media in Education.

## 6. Current types of the educational technology systems and their application

- 6.1. Computer-based educational technology
- 6.2. Interactive video and Teleconferencing
- 6.3. Personal digital assistants (PDAs)

## 7. Integrating Technology into the Curriculum and Instruction

- 7.1. Technology in science and mathematics instruction
- 7.2. Technology in social science instruction
- 7.3. Technology in language arts and foreign language instruction
- 7.4. Issues and trends related to technology use in instruction

### Recommended Books:

- Borich , G. D.(1996). *Effective teaching methods*. New York: Practice- Hall.
- Ellington, H. and Race, P. (1994). *Producing teaching materials: A handbook for teachers and trainers*. London: Kogan Page.
- Feden, P. D. and Vogel, R. M. (2003). *Methods of teaching*. Boston: Mc-Graw Hill.
- Joyce, B., Weil, M.& Calhoun, E . (2000). *Models of teaching*.(6<sup>th</sup> ed.).Boston: Allyn and Bacon.
- Mohanty, S.B. (1995). *Improving university and college teaching*. New York: P.H. Publishing corporation.
- Muyskens, I. A. (Ed) (1998). *New ways of learning and teaching: Focus on technology and foreign language education*. Boston: Heinle and Heinle Publishers.
- Norton, P. & Sprague, D. (2001) *Technology for teaching* Boston Allyn & Bacon.
- Rashid, M. (Ed.). (2001). *Allied material on teaching strategies*. Islamabad: AIOU.
- Roblyer, M. D., Edwards, J., and Havriluk, M. A. (1997). *Integrating educational technology into teaching*. Columbus: Prentice -Hall
- Sharma, A. (1999). *Modern educational technology*. New Delhi: Commonwealth Publishers.