

**MAED I Year, M.A. in Education**  
**PAPER IV: ICT in EDUCATION(Paper code-MAED-104)**

**COURSE OBJECTIVES**

1. To acquaint the learners with the meaning, scope and components of E.T.
2. To familiarize the learners with designing of instructional strategies and system.
3. To enable the learners to understand the levels and models of teaching.
4. To facilitate the learners to understand the uses of printed and electronic media for formal and non-formal systems of education.
5. To acquaint the learners with research priorities in E.T. and the concept of e-learning and various resource centers of E.T.

**BLOCK 1**

Educational Technology- Communication and Instructional System

**Unit 1-** Information and communication- Instruction and Communication -Theory, concept, process components, types. Classroom Communication. Mass media in Educational technology.

**Unit 2-** Educational Technology: meaning, scope, concerns, components of ET-software, hardware and system analysis. Educational Technology and Instructional Technology.

**Unit 3-** Various Instructional Systems- Formulation of instructional objectives, Task Analysis.

**Unit 4-** lectures, team teaching, discussions, seminars and tutorials as instructional strategies- their characteristics and organization.

**BLOCK 2**

Levels of Teaching, Strategies and Models

**Unit 5-** Levels of Teaching and Strategies: Memory, Understanding and Reflective levels of teaching. Teaching strategies- Meaning, functions and types.

**Unit 6-** Models of teaching: Meaning, functions and types -Psychological Models and Modern Models of Teaching.

**Unit 7-** Teacher behavior Modification Techniques - Micro teaching, Simulated Social Skill Teaching, Guided School Experience.

**Unit 8-** Interaction Analysis Techniques for modification of teacher behavior - Flander's Ten Category System

**Unit 9-** Programmed instruction- Origin and types-Linear and Branching & Mathematics Models.

**Unit 10-** Development and Evaluation of the Programmed Instructional material.

**Unit 11-** Computer Assisted Instruction: meaning, instructional uses of computer.

### **BLOCK 3**

Printed and Electronic Media- Applications for Formal and Non- formal Education

**Unit 10-** Educational technology for Formal Education-

**Unit 11-** Educational technology for Open and Distance Learning System- Uses of Printed material and Self-Instructional Learning Material,

**Unit 12-** Uses of Electronic Media, Interactive Video and Tele Conferencing, CCTV, Computer Networking medium, INSAT, EDUSAT, Educational Television.

**Unit 13-** Audio- Visual aids in Education

**Unit 14-** Educational technology for evaluation purposes

### **BLOCK 4**

Educational Technology and Research

**Unit 15-** Researches conducted in the field of Educational technology

**Unit 16-** Research Priorities in Educational Technology

**Unit 17-** e-learning-meaning and modalities of e-learning, Pedagogical designs for optimizing e-learning, evaluation of the impact of e-learning.

**Unit 18-** Resource Centers for Educational Technology- Role of CIET, UGC, IGNOU- STRIDE, NOS, State ET cells, AVRC, EMRC and NIST etc. for the improvement of teaching- learning.

**Suggested Readings:-**

1. Educational Technology: R.A. Sharma
2. शैक्षिक तकनीकी: R.A. Sharma
3. Educational Technology: Saxena and Oberoi
4. शैक्षिक तकनीकी के मूल आधार S.P. Kulshreshtha
5. Introduction to Educational Technology: K. Sampath, A.Pennirselvam and S. Santhanam