

UNIVERSITY OF CALCUTTA
(4TH SEMESTER)
CORE COURSE FOR
EDUCATION HONOURS(CC-8)
MODULE (EDCA-04-08-1.2)

Technology in Education (Need and Scope)

By

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Unit 1

Introductory Concept

- **1.1 Concept of Technology**
- **1.2 Need and Scope of Educational Technology**
- **1.3 System Approach – Concept and Need**
- **1.4 Classification and components of System Approach**

Topic of Discussion

□ 1.2 Need and Scope of Educational Technology



Learning Outcomes

After going through this unit , you should be able to

- Discuss the Need of Educational Technology
- Discuss the Scope of Educational Technology

Need of Educational Technology

Educational Technology is needed in the process of education because of the following reasons.

Explosion of Population

Modern Media of communication like TV, internet impart education to millions of people.

Fast generation of new Knowledge

New Knowledge is expanding at a very fast speed.

Development of New strategies

Educational Technology helped to develop Programmed Instruction and microteaching.

Development of Teaching Models

When a definite combination of inputs and strategies give good results repeatedly in a number of classroom situation.

Controlled Atmosphere

It has made the whole process of teaching objective, clear, scientific and interesting.

Development of Teaching Model

It can be translated into teaching models to be used universally.

Scope of Educational Technology

Educational Technology is as wide as Education itself. Educational Technology implies the use of all educational resources like men, material, methods and techniques, means and media in an integrated and systematic manner for optimized learning.


The scope of educational technology depend very much on

- a. Technology related to General Educational Administration
- b. Technology related to instructional process
- c. Technology related to General Educational Testing and Evaluation




In 1973 Rowntree mentioned six aspects in the scope of Educational Technology.

1. Identifying aims and objectives of learning.
2. Planning and learning environment
3. Exploring and structuring the subject matter.
4. Selecting appropriate teaching strategies and learning material
5. Evaluating the effectiveness of value system.
6. Using the insight gained from evaluation to improve their effectiveness of learning system.



Apart from the above mentioned fields the other important aspects are the following

- a. Concept of Educational Technology and Different aspects.
- b. Teaching Learning process
- c. Instructional Technology
- d. Programmed Learning
- e. Teaching Model
- f. Multimedia Approach in teaching
- g. Mathematics

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- h. Cybernetics
 - i. Teaching Model
 - j. Task analysis
 - k. Modules
 - l. System Approach
 - m. Information Technology
 - n. Communication Technology
 - o. Use of Computer in Education
 - p. Distance and open Education
 - q. Evaluation Technology
 - r. Teaching Technology
 - s. Behavioural Technology

Conclusion

In conclusion it can be stated that Educational Technology give variety of learning resources, help in collaborative learning, multiple communication channel and access to open courseware.

Activities

1. Write the need of Educational Technology.
2. Mention the scope of Educational Technology.