

Educational Technology - Concept, Importance and Approaches

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ABSTRACT

Just as the field of education is wide and includes everything from learning, teaching, instruction and training, similarly, educational technical behavior technology instruction, technical audio-visual technical system, method of teaching, technology – oriented learning instruction framework and training communication psychology, etc. are included in this way. The field of education technology has become very wide, from clear and school educational processes to the very information broadcasting and philosophical processes and the field of education technology has spread, according to the registry, to identify these objectives and characteristics in the field of education technology, planning the learning environment. The construction of content and organization of teaching selection of teaching skills, selection of learning tools and learning assessment include future improvement in the development of trends. Educational technology particularly affected the teaching process, in which the principles of teaching are being given more importance, the role of educational technology need and importance are very useful and effective in the following areas of work – **Teaching theory ,Audio visual equipment selection, Analysis of teaching, Determination of educational objectives, Teaching – learning array – selection of compositions, Curriculum development, Analysis of the behavior of the learner, Assisted in nurturing, Teaching paradigm and Appropriate control by assessment etc.**

Keywords – Scope of Educational Technology, Role, Need ,Importance, Aims, Characteristics .

Introduction

Educational technology refers to teaching machine and customized instruction. Others believe that writing educational purposes in practical form and using audio – visual aids to achieve them is called educational technology. In this way, several definitions educational technology have been given, the meaning of educational technology can be clarified by their analysis. The major definitions are as follows –

According to G.O.M. Tenth, "Educational Technology is the application of scientific Knowledge about learning and the conditions of learning to improve the effectiveness of teaching and training."

According to W.K. Richmond, "Educational Technology is concerned to provide appropriately designing learning situations which holding in view the aims of the teaching or training bring to bear the best means of instruction."

According to Robert Mills Gagne, "Educational Technology can be understood as meaning the development of a set of systematic techniques, accompanying practical knowledge for designing testing and operating school as educational system."

According to Jacquetta Bloomer, "Educational technology is the application of scientific knowledge about learning to practical learning situations."

Based on the meaning and definition of the appropriate educational technology, we can summarize in this way that in the field of educational technical education there is such use of scientific principles under which purpose of teaching and learning process through instruction is purposeful. Can be made.

Concept of Educational Technology -

1. The practical aspect of teaching and training in educational technology is given importance.
2. Using psychological theory and other rules in teaching so that educational objectives can be achieved.
3. System approach is preferred in educational technology so that well developed methods can be developed.
4. The nature and sources of learning are giving more importance.
5. Effective methods and methods are developed with the help of practical knowledge to make teaching training and learning effective in educational technology.
6. Science is the fundamental subject of educational technology.
7. Educational technology studies the impact of science and technology on education.
8. Educational technology is a subject of continuous development.
9. Its purpose is to develop in the process of learning.
10. This Psychology engineering takes assistance in science today.

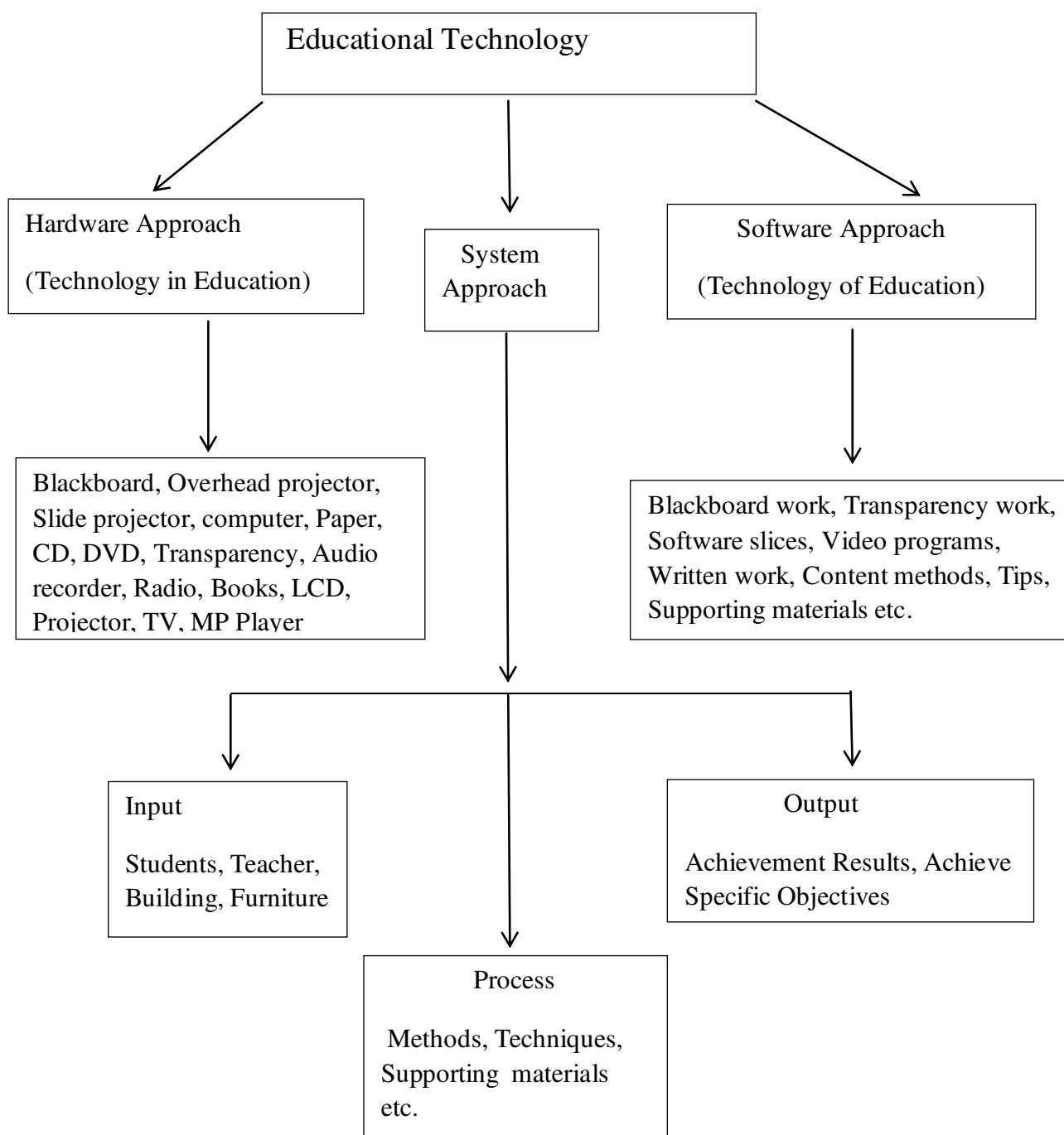
It is thus clear that educational technology is a new area of education which has its own text.

Scope of Educational Technology -

Just as the field of education is wide and includes everything from learning, teaching, instruction and training, similarly, educational technical behavior technology instruction, technical audio-visual technical system, method of teaching, technology - oriented learning instruction framework and training communication psychology, etc. are included in this way. The field of education technology has become very wide, from clear and school educational processes to the very information broadcasting and philosophical processes and the field of education technology

has spread, according to the registry, to identify these objectives and characteristics in the field of education technology, planning the learning environment. The construction of content and organization of teaching selection of teaching skills, selection of learning tools and learning assessment include future improvement in the development of trends

- 1- **Hardware Education Technology**
- 2- **Software Education Technology**
- 3- **System- Approach**



Apart from these, other technology has also been included in technology which are as follows –

- Practical Technology
- Instructional Technology
- Teaching Technology
- Instructional Design
- Training Psychology
- Cybernetic Psychology
- System- Analysis
- Information Technology
- Micro – Teaching
- Teaching Strategies
- Structured Communication
- Learning Theories
- Computer Based Instruction
- Teaching Theories & Model
- Interaction Analysis
- Programed material
- Management of Teaching – Learning
- Teaching Machines
- New concept and Experiment
- Action Research

Thus the field of educational technology is wide and wide

Role / Need and Importance of Educational Technology

Educational technology particularly affected the teaching process, in which the principles of teaching are being given more importance, the role of educational technology need and importance are very useful and effective in the following areas of work –

(i) Teaching theory -Educational technology includes the teaching of learning related variables, teaching learning level, principles and formulas of teaching and the study of the factors that influence learning.

(ii) Audio visual equipment selection –

There are three main aspects of educational technology-Input, Process and Output etc. related to audio- visual process. The meaning of audio- visual aids, classification, importance of these in effective teaching, principles for their selection and use, preparation and use of various audio-visual aids are the areas of educational technology. The teacher uses these tools to focus the students attention on classroom tasks.

(iii) Analysis of teaching –

Educational technology up to product in payment / investment cost investment adjectives all the elements used in teaching and learning. Determines levels of learning, provides formulas and principles. Establishes relationships in leaning and these elements are arranged in an orderly manner, in which the qualities, abilities, skills conclusions, etc of the students are analyzed.

(i) Determination of educational objectives -

Through educational technology, method and methods for defining and writing them in practical terminology are laid down by setting various learning objective on a solid basis; Such as Blooms, RCIM, magger method etc.

(v) Teaching – learning array – selection of compositions -

In the teaching learning process the teacher plays an important role in making the learning efficient by choosing the learning structures. To increase the teachers skill in teaching, micro - teaching, group – teaching, customized education and interaction analysis etc. Were used goes .hence these techniques are also studied under educational technology.

(vi) Curriculum development -

Educational technology refines the curriculum keeping in mind the definite objective and develops it appropriately.

(vii) Analysis of the behavior of the learner -

It has been learned by technology that there are individual differences in the student. It helps in identifying the teaching learner to make teaching learning outside. The learning techniques embedded in it give students opportunities to learn at their own pace.

(viii) Assisted in nurturing -

Educational technology serves to impart training in establishing proper control of the entire learning process on which students and teachers check the success of teaching method and rethink the errors. With this the selection development of method of back – feeding can be possible. Different types of stimuli provide the learner with page nutrition. This page nutrition brings positive changes in his responses. This positive change turns into learning.

(ix) Teaching paradigm -

Educational technology is used for the purpose of instructional objectives. Teaching paradigms are used to develop these objectives because the use of educational technology leads to the attainment of instructional objectives. Hence the study of teaching paradigms is included in the field of educational technology.

(x) Appropriate control by assessment -

Educational technology provides a variety of techniques and methods for evaluation .Effectiveness of teaching can also be ascertained by this assessment.

Aims of Educational Technology

1. General Aims -

- (i) To find out the various appointments with the help of psychology and science and technology for achieving the objectives of education.

- (ii) Developing different methods of visualization patterns to make the teaching process effective.
- (iii) Trying to create an effective presentation for teaching learning.
- (iv) Developing various scientific instruments and other tools as aids to teaching.
- (v) Detection of individual variations and education should be carried out as per the requirement of the person concerned.
- (vi) To provide education facilities to the general public.

2. Specific Aims –

- (i) The specific objective of educational technology is to make classroom teaching and learning simple, clear, understandable and effective.
- (ii) Determining the objectives of education them in practical terminology.
- (iii) Analyse students qualities, abilities, achievements and skills on an individual – to – different basis.
- (iv) Analysing the text or teaching material arranging its elements and components in order.
- (v) To select the appropriate composition of teaching to achieve the set objectives for the presentation of systematic text through the process of teaching aids, feedback and reinforcement.
- (vi) To improve the learning of students by best methods in relation to the set objectives to know the expected behaviour change.
- (vii) To employ teaching.

Characteristics of Educational Technology

1. Educational technology is a part of education.
2. Academic technology education is the product of science and education and art.
3. Educational technology is a scientific subject and study.
4. Educational technology is concerned with input ,output and process.
5. Educational technology emphasizes the development of new methodologies for effective learning .
6. In Educational technology scientific knowledge is applied in education teaching and training.
7. Educational technology involves the systematic organization of learning situations to achieve objectives.
8. Educational technology emphasizes the design of measuring instruments to test learning outcomes.
9. The educational technological environment simplifies learning by controlling resources etc.
10. Educational technology is concerned with the problems of education, their analysis, research to solve them and the improvement of education.
11. It help to make teaching scientific objective and interesting.
12. It covers the use of psychology, science, technology, art, audio-visual materials and machines in the field of teaching process.
13. The Expected change in the behavior of the teacher student can be brought about by educational technology.

14. It is continuous and developing method.
15. It helps in effective classroom control and management.

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