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Level: Third year.

Specialization: Guidance and Counseling.

**Definition of educational
technology
(edutech, or edtech)**

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INTRODUCTION

Technology has taken over (سيطرت) our world and has dramatically changed the way we live, work, and learn. In the education sector, technology has been a game-changer (قواعد اللعبة) and has transformed the traditional methods of teaching and learning. In a classroom setting, students are often given a lot of information to process quickly. This can be overwhelming (مربكًا) and cause confusion. Technology provides access to numerous online resources that support independent learning and research. It also helps simplify the learning process by making concepts easier to understand, for example through instructional videos (الفيديوهات التعليمية) .

INTRODUCTION

Gone are the days of rote memorization and blackboard lectures (لقد ولت أيام الحفظ عن ظهر قلب (والمحاضرات على السبورة).

Today's students are digital natives (مواطنين رقميين), who have grown up surrounded by technology and are accustomed (اعتادوا) to a more interactive, dynamic learning experience. Let's take a closer look at the importance of technology in education.

Objectives:

After studying this unit, students will be able to:

- ✓ **To be aware of the basic concept and significance of educational technology.**
- ✓ **Understand education.**
- ✓ **Learn the definition of educational technology.**
- ✓ **Understand the assumptions of educational technology.**
- ✓ **Understand the areas of educational technology.**

1-What is Technology?

The word **“Technology”** is derived from the two Greek words namely **“Technic”** and **“Logia”**. **“Technic”** -means: art or skill. **“Logia”** - means: Science or Study. So simplest meaning of **“Technology”** is **“Science of study of an art or skill.”**

1-What is Technology?

- ✓ **“Technology is Knowledge organized for Production”**. Sachs.I
- ✓ **“Technology is the application of scientific knowledge to a practical purpose”**. Page.T
- ✓ **“Technology is the set of instruments and skills which are used to satisfy the needs of the community”**. Hierra.A

1-What is Technology?

Technology or **Technological Science** is a synonym of an English word '**Technology**'.

Technology means: Methods of using scientific knowledge in daily life. According to Prof. **Golbraith**, There are two major characteristics of **Technology**:

- (1)** Systematic application of scientific or other organized knowledge to practical tasks.
- (2)** Forming the division and sub-division of any such task into its component parts.

2-What is Education?

The word **“Education”** is derived from the Latin word **“Educatum”**, which means **“To bring out”** (الإخراج الاظهار، الابرار). In the sense, the meaning of Education is to bring out the better qualities of the individual.

Acc. to **Ross**, the word **“Education”** is derived from the Latin word **“Educare”** which means **“to bring up”** or **“to raise”**. It means that education is that process which **brings up** (تنشئ) or **rears** the individual in the right way.

2-What is Education?

According to **Universal Dictionary of English Language**, Education means:

(1) To educate, To provide training, **(2)** Developing brain and character, and **(3)** A particular state education systems.

These words indicate various learning of education and educational procedures. By providing new experience, education makes a boy to adjust him according to the environment and the full development of his powers and inherent abilities, as per eligibility, he could contribute his family, community and nation to a specific area.

3-What is Educational Technology?

1-Simplistic Definitions:

Definitions of educational technology has a **variety of different scholars**. Some important definitions are being quoted below. These definitions assist in understanding the meaning and nature of educational technology.

(1) Jacquetta Bloomer 1973: "Educational Technology" is the application of scientific knowledge about learning to practical learning situations."

(2) Richmand 1970: "Educational Technology" is concerned to provide appropriately designing learning situations, holding in view (مع الأخذ في الاعتبار) the objectives of the teaching or training, bring or bear the best means of instruction."

3-What is Educational Technology?

2-Acceptable Definitions of Educational Technology:

(1) G.O.M. Leith: “**Educational Technology** is the systematic application of scientific knowledge about teaching learning and conditions of learning to improve the efficiency of teaching and training.”

(2) Takshi Sakamoto, 1971: “**Educational Technology** is an applied or practical study which aims at maximising educational effect by controlling such relevant facts as educational purposes educational environment, conduct of student, behaviour of instructors and interrelations between students and instructors.”

3-What is Educational Technology?

2-Acceptable Definitions of Educational Technology:

(3) Shiv K. Mitra: “**Educational Technology** can be conceived as a science of techniques and methods by which educational goals could be realized.”

(4) “**Educational technology** is the study and ethical practice of facilitating learning and improving performance by creating, using, and managing appropriate technological processes and resources.

(5) “**Educational Technology** is that branch of educational theory and practice concerned primarily with the design and use of messages which control the learning process.

3-What is Educational Technology?

Based on the above definitions, we arrive at the following conclusions:

- 1. The basis of educational technology is science.**
- 2. Educational technology studies the effect of science and technology upon education.**
- 3. Practical aspects are important in educational technology.**
- 4. Educational technology is a continuous progressive method.**

3-What is Educational Technology?

- 5.** Its goal is to improve the learning technique.
- 6.** In the field of educational technology, psychology, engineering etc. are used.
- 7.** In educational technology, systematic approach plays the main role.
- 8.** Teacher, pupils and technical approaches are included in it.

3-What is Educational Technology?

9. Innovative teaching methods and new teaching techniques are emerging as a result of progress in educational technology.

10. It is possible to make necessary modification in teaching environment in order to fulfil (تحقيق) the teaching goals.

11. Educational technology is helpful in making tools in accordance (وفقا) to teaching, economic, society and technical needs.

4-Differences between Technology of Education and Technology in Education:

Areas	Technology of education	Technology in education
1. Basis	It is based on child psychology (age, ability and mental level).	In is based on the principles of physical sciences or engineering sciences.
2. Approach	Its approach is identified as software approach. البرمجيات	Its approach is identified as hardware approach. الأجهزة
3. Origin	Its origin lies in the application of behavioural sciences to the problems.	Its origin lies in the application of physical sciences or engineering to education.
4. Examples	Text books, work books, newspaper etc.	TV, Radio, Slide Projector, Computer, OHP etc.

4-Differences between Technology of Education and Technology in Education:

5. Relation	It is related to learning aids.	It is related to teaching aids.
6. Requirement	The use of this approach does not require skilled personnel as in hardware technology.	Skilled personnel in hardware technology are needed.
7. Flexibility	This approach is very flexible	This approach is relatively rigid.
8. Type	It is called constructive educational technology	It is called relative technology
9. contribution to educational system	This approach is very helpful in understanding the need of the learners and educating them accordingly.	It is useful in mass education programmes.
10. Cost	It is less costly.	It is expensive.

5-Characteristics of Educational Technology:

- 1.** It is based on scientific and technological advancements.
- 2.** It is more a practical discipline and less a theoretical one.
- 3.** It is a fast growing modern discipline.
- 4.** It makes use of the research findings of psychology, sociology, engineering, sciences and social psychology etc., and applies the same to the field of education.
- 5.** It is helpful in making the teaching process objective, easy, clear, interesting and scientific.

5-Characteristics of Educational Technology:

- 6. It is a continuous dynamic technology.**
- 7. It is an important medium of communication.**
- 8. A desired change is possible in the behaviour of teachers and students.**
- 9. It brings pupils, teachers and technical means together in an effective way.**
- 10. It is bound to improve the teacher, the learner and the teaching learning process.**

**Thanks for your
attention**

