

Instructional Technology(IT)



TEACHER
DR. KUNJALATA BARUAH
ASSISTANT PROFESSOR
DEPT. OF EDUCATION
MANGALDAI COLLEGE

Meaning & Definition of IT



- IT – one **type of ET**
- IT involves the techniques adopted to **focus on the learning effect** rather than the teaching process. (Vedanayam)
- IT is a systematic way of **designing, carrying out and evaluating** the total process of **learning and teaching** in terms of specific objectives, based on research, on **human learning and communication** and employing a combination of human and non-human resources to bring about more **effective instruction.**(Mc Murrin)

Characteristics of IT



- Helps to achieve cognitive objectives of education
- Emphasis on individual ability of learning
- Stress on reinforcement in learning
- Gives importance on psychological principles of learning
- Emphasis on self-effort of the learner
- Provides insight on content elements, its organization and logical sequence
- Emphasis on retention of acquired knowledge through drill/practice
- Make efforts for innovation in instructional strategies

Content of IT



- Programmed Instruction and its related aspects
- Educational objectives in behavioural terms
- System of learning according to individual capabilities
- Reinforcement techniques
- Learner-controlled instruction
- Development of learning theory
- Principles of Task analysis, Computer assisted instruction

Objectives of IT



- **Individualization of instruction:** 3 criteria-
 - Determination of aims, curriculum, methods of teaching on the basis of individual characteristics of students
 - Determination of duration of learning on the basis of acquisition level of learners
 - Evaluation of achievement of learners on the basis of level of attainment of specific objectives by the learner
- **Ensuring continuous education:** Agencies of ODL
- **Emphasizing resource-based education:** to become a resource 3 criteria-
 - Availability, self-pacing in learning, and opportunity to work/act according to needs of the learner

Methods of IT



- **Individualized instructional methods**

- Problem method
- Project method
- Programmed instruction
- Keller plan
- Mastery learning
- Team teaching
- Computer assisted instruction

- **Group instructional methods**

- Discussion
- Panel discussion
- Debate
- Symposium
- Seminar
- Brain storming

Role of IT in T-L Process



- Setting of Instructional objectives
- Taking decision about the instructional materials
- Taking decision about the media and methods
- Taking decision about instructional situation
- Help in the task of evaluation

Difference between ET & IT



ET

- A **wider concept** including the recent discoveries of science and technology to the process of education
- Primary goal is **to enhance technological literacy** to everyone
- An approach used to achieve the **ends of education**
- Its goals are determined by the **demands of the society or country**

IT

- A **narrow concept**, only a component of the broad educational technology
- Primary goal is **to enhance the teaching and learning**
- An approach used to achieve the **ends of instruction**
- Its goals are determined by **the needs of the learner**

Difference between ET & IT



ET

- It produces teaching material such as books, different types of software materials, hardware materials etc. **to benefit all the learners of the nation**
- Its objective is to **modernize the learning methods and techniques** systematically to make them effective to **meet the need of the changing era for the future**

IT

- It produces teaching materials **to meet the needs of the local learners**
- It is concerned with objective of **making maximum use of existing learning method and technique** to meet the **requirement of the learners** in the educational institutions/classroom

THANK YOU