

TEACHING TECHNOLOGY

1. Introduction
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1. Introduction

- Teaching is the social and professional activity.
- Teaching is purposeful activity. The ultimate goal of teaching is to bring all round development of a child.
- Teaching is an art as well as science because teaching can be studied objectively and scientifically.
- The Chief exponents of Teaching Technology: I.K. Davies, N.L. Gagne, Herbert, Hunt, Burner and Robert Glaser.
- Teaching is such a classroom activity which is completed by the interaction between teachers and students.
- This activity leads to complete development of students.
- Today teaching is considered 'Student-Centered' and not 'Teacher-Centered'.
- In other words, instead of teaching by the teacher, the learning by the student is emphasized.

2. Content of Teaching Technology

- K. Davies and Robert Glaser (1962) have developed the content of teaching technology and classified into 4 elements.

1. Planning of Teaching

2. Organization of teaching
3. Leading of teaching
4. Controlling of teaching

i. Planning of Teaching

- A teacher makes proper plan to what he is to teach in the class. In planning he does 3 things/activities.
1. Task analysis (He analyses the content and arranges such sub contents into systematic manner).
 2. Identification of Objectives (i.e. what changes he has to bring in the behavior of his students).
 3. Writing learning Objectives (they can be evaluated at the end of the task).

ii. Organization of Teaching

- This is the second stage of teaching.
 - This stage is particularly related to the presentation of the subject-matter.
 - In organizing, a teacher does the following things,
1. He selects suitable teaching strategies and techniques.
 2. He selects or prepares suitable material aids for making the presentation of the subject –matter effective.
 3. He matches the strategies and material aids with the nature of the sub content to give such an experience to his students which is conducive to the realization of teaching objectives.

iii. Leading of teaching

- This stage is related to communication strategies and reinforcement devices.
- The techniques of motivation are employed for leading the behaviors of the students.

- The knowledge regarding reports between teacher and students is considered under this step.

iv. Controlling of Teaching

- The last step concerns with evaluation of teaching.
- The main focus of this step is to assess the learning objectives in terms of student's performance.
- The learner's performance provides the basis for the feedback to teacher and learners.

3. Assumptions of Teaching Technology

The content of teaching technology is based on the following assumptions.

- Teaching is a scientific process and it has two major components: Content and Communication
- A close relationship may be established between teaching and learning.
- Teaching skills can be developed with the help of feedback devices.
- Teaching and learning are mutually inter-related (i.e.) they are affected with each other. In other words means that better teaching leads to better learning and better learning environment leads to better teaching.
- Modification and improvement can be made in teaching activities according to the situations (i.e.) there is no general formula applicable to all circumstances.
- Appropriate conditions can be created by teaching for effective learning.

4. Characteristics of Teaching Technology

The following are the main features of Teaching Technology.

1. All the 3 domains of objectives: cognitive, affective and psychomotor can be achieved by this technology.

2. It can make the teaching more effective.
3. Teaching technology is based on philosophical, sociological and scientific knowledge of education.
4. Teaching can be organized at 3 levels namely: memory, understanding and reflective level of teaching.
5. As a system it consists of the inputs, process and outputs with the focus on teachers.
6. The teaching-learning process can be made effective with the help of teaching technology.