

**UNIT NAME: COMPETENCY BASED EDUCATION AND TRAINING CURRICULUM
DEVELOPMENT(CBET)**

COMPUTER AND MATHEMATICS (GROUP 3)

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Discuss the following curriculum elements in details :

1.Objectives

2.Learning experiences

3.Organisation of learning experiences

4.Evaluation

1.OBJECTIVE

- ▶ It refers to specific,measurable statements that outline what students should be able to know,understand or perform by the end of a learning unit or course.

- ▶ They can be classified into three domains:

1.Cognitive domain(Knowledge based) ;It focuses on the intellectual skills such as understanding,remembering,analysing and evaluating.

E.g Students will be able to explain the causes of the fight of independence in Kenya.

2.Psychomotor domain(Skill based) ;It is related to physical skills and coordination.

E.g The students will be able to demonstrate proper technique in a basketball free throw.

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- ▶ 3.Affective domain(Attitude based) ;It concerns with the students feelings,values and attitudes.
- ▶ E.g Students will appreciate the importance of teamwork in problem solving.

Characteristics of good objectives

- ▶ 1. Clear and specific ; They should be well defined and unambiguous
- ▶ 2. Measurable; They should be assessible using tests, projects or other evaluation methods.
- ▶ 3. Aligned with learning goals; They should directly support the overall education goals of the curriculum.
- ▶ 4. Time bound; They should specify when they should be achieved .e.g By the end of a lesson or semester.

Importance of objectives

- 1.It ensures that the curriculum is aligned with the overall goals and standards of education.
- 2.It provides a basis for assessment and evaluation.
- 3.It guides the teachers in planning lessons.
- 4.It informs the students of the standards and expectations of the course.

2.Learning experiences

- ▶ They are various activities,tasks and interactions designed to help students achieve the stated objectives.
- ▶ These experiences can be formal (Classroom based) or informal (Outside classroom)
- ▶ Key Aspects.
- ▶ Variety;Use diverse methods.E.g groupwork,lectures etc
- ▶ Active engagement ;Promote participation and critical thinking.
- ▶ Relevance ;Connects to students interests.
- ▶ Feedback is key;It helps learners understand their progress,reinforce strengths and ensure effective learning.
- ▶ Repeat; In order for learning to become automatic,learners need to be exposed to it repeatedly over a long period of time

Factors influencing learning experiences

- ▶ Learners background; prior knowledge, experiences and interests.
- ▶ Subject matter; The complexity and nature of the topic being taught .
- ▶ Available resources; Facilities, materials and technology available.
- ▶ Teaching strategy/Methods; Methods used by a teacher such as inquiry-based learning, problem-solving and cooperative learning.

Importance of learning experiences

1. Development of critical thinking skills, creativity and problem solving skills.
2. Helps the learner to participate in learning process.
3. It forms a basis for evaluation of learning objectives.
4. It connects the learner to practical scenarios and real life situations that helps in seeing the relevance of information acquired and apply it.
5. It promotes self-awareness and confidence.

3.Organization of learning experiences

- ▶ Refers to the structure and sequencing of activities and tasks within the curriculum.
- ▶ Key aspects of organizing learning experiences
- ▶ 1)Clear learning objectives. Defining precise and measurable learning outcomes,that guide content selection and activity designing.
- ▶ 2)Flexibility.It should adapt to students needs.
- ▶ 3)Scope. Depth and breadth of content should be appropriate to the learners level and timeframe.
- ▶ 4) Balance. Activities should be diverse to cater to different learning styles and abilities.
- ▶ 5)Assesment strategies. Employing appropriate assessment methods eg quizzes,projects and presentations to measure learning progress.

Approaches to organization learning experiences

- ▶ 1) Subject-centered approach. Here, content is structured based on subjects eg math, science e.t.c
- ▶ 2) Learner-centered approach. Focuses on students interests, needs and abilities.
- ▶ 3) Activity-centered approach. Emphasizes learning through projects, experiments and real life application.
- ▶ 4) Inter-disciplinary approach. Integrates concepts from multiple subjects to provide a broader perspective

Importance of organizing learning experiences

- ▶ 1)Enhances students ability to retain and apply knowledge.
- ▶ 2)Encourages connection between different subjects and real life applications.
- ▶ 3)Helps students grasp concepts systematically and in a orderly version.
- ▶ 4)Efficient time management.

4)Evaluation

- ▶ Is the process of assessing students learning progress and determining the effectiveness of the curriculum.
- ▶ **Types of Evaluation**
- ▶ 1)Formative evaluation. Conducted during the learning process to provide feedback eg quizzes,class discussions and peer reviews.
- ▶ 2)Summative evaluation. Conducted at the end of a course to measure overall achievement e.g final exams,end of term project.
- ▶ 3)Diagnostic evaluation. Used before instruction to assess students prior knowledge and identify learning gaps e.g pretest and diagnostic interviews.
- ▶ 4)Norm referenced evaluation. Compares students performance against a standard or peer group e.g national standardized test.
- ▶ 5) Criterion referenced evaluation. Measures students based on pre-defined criteria

Methods of evaluation

- ▶ 1) Written test and exams. Multiple choice, essays and short answered questions.
- ▶ 2) Oral assessment, presentation, interviews and oral exams.
- ▶ 3) Performance based assessment. Practical demonstrations, experiments and role plays
- ▶ 4) Portfolio assessment. Collection of students work over time.
- ▶ 5) Peer assessment reflection and feedback from students and peers

Importance of evaluation

- ▶ 1) Motivates students to improve their learning
- ▶ 2) Measures students achievement of learning objectives
- ▶ 3) Identifies areas of improvement for both students and teachers
- ▶ 4) Provides data for curriculum review and improvement.

ANY QUESTIONS ?

THANK YOU!