Republic of the Philippines

**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES**

College of Industrial Education

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SEM 3 Seminar in Professional Education

Activity No. 5

**Educational Technology**

**Learning Outcomes:**

1. Employ teaching strategies, methods, instructional materials and technology, classroom management techniques appropriate to subject areas and inclusive of learners from indigenous groups.
2. Demonstrate skills in developing and using a variety of conventional and non -conventional resources including Information and Communication Technology to address learning goals and needs of various learners.

**General Instructions**: Answer the following questions.

1. Discuss the following concepts:
   1. Education
   2. Technology
   3. Educational Technology
2. Describe/Discuss the following Philosophical Framework behind Educational Technology
   1. Behaviorism
   2. Cognitivism
   3. Constructivism
3. Identify the purpose of Visual Devices

* Make a presentation more convincing
* Maintain the audience's interest in the presentation
* Assist the speaker in remembering the points to make during the presentation.
* Clarify the presentation's structure.
* Assist an audience in understanding and remembering information from a presentation.

1. What are the traditional forms of Visual Aids? Describe each.

**Whiteboards -** Whiteboards are excellent for providing additional explanations, such as clarifying difficult vocabulary, explaining the order of a procedure, drawing diagrams, and so on. They are typically used for writing headings, crucial information to be displayed during the presentation, and noting student suggestions.

**Charts and graphs-** A wide range of charts and graphs are available to help the students with several tasks, including pie charts, line graphs, bar charts, flow charts, and organizational charts.

**Handouts-** The important material from the presentation or additional information for the presentation it may be printed on sheets of paper. These are known as handouts. They are typically utilized when issue is too hard to grasp simply by speaking.

**Flip chart**- Flip charts are a low-cost way to record and convey information when presenting in classroom. They have relatively little technology. They are useful when you only have a small number of children. They are frequently used in brainstorming sessions to easily collect thoughts and summarize the material offered.

1. The following are different classification of Devices. Describe each and cite example.
   1. Extrinsic
   2. Intrinsic
   3. Material Devices
   4. Mental Devices
2. The following are the role of computer in the teaching and learning. Explain each.
   1. Computer as object of instruction
   2. Computer as tool for instruction
3. Explain the following:
   1. Distance Education
   2. Massive Open Online Courses (MOOC)
4. Differentiate synchronous distance learning from Asynchronous Distance Learning. Complete the matrix below.

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| --- | --- |
| **Synchronous Distance Learning** | **Asynchronous Distance Learning** |
|  |  |

1. Describe the following theories and principles in Educational Technology. Use illustration to better explain each theories or principles.
   1. Dale’s Cone of Experience
   2. Three Fold Analysis of Experience by Jerome Bruner
   3. TPACK Framework
   4. Gagne’s 9 Instructional Events
   5. Merill’s Principle of Instruction
   6. Levels of Technology Integration
2. Illustrate and describe the following Instructional Design Model
   1. ADDIE Model
   2. ASSURE Model
3. Differentiate the Two parts of Computer;
   1. Hardware
   2. Software
4. Describe the four categories of hardware. Cite example for each category.
   1. Input Devices
   2. Output Devices
   3. Storage Devices
   4. Processing Devices