21st April 2020

Digital Logic Course

Name of the course: Binary Computing

Learning Objectives

Part One -

1. The learner is to define Binary.
   a. Teaching Method – Definition sourced from *Wikipedia*, presented in slide form for self learning.
   b. Teaching Materials – Self Learning Slides (SLS), internet connectivity on desktop or laptop computer.
   c. Evaluation – Student can write a correct definition.
2. The learner will define the five Logical Gates in Digital Logic.
   a. Teaching Method – instructor compiled lecture notes handed to learner, presented in slide form for self learning.
   b. Teaching Materials – SLS, internet connectivity on desktop or laptop computer.
   c. Evaluation – Learner can write down the correct definitions.
   d. Lesson content –
      i. AND Gate.
      ii. NAND Gate.
      iii. NOR Gate.
      iv. OR Gate.
      v. COMPT (Complement) Gate.

Part Two –
3. The learner will demonstrate understanding of Truth Tables.
   a. Teaching Method – Instructor compiled notes given to learner, presented in slide form for self learning.
   b. Teaching Materials – SLS, internet connectivity on desktop or laptop computer.
   c. Evaluation – Learner can demonstrate correctly his/her understanding.

       d. Lesson content –
           i. Draw a 3 input OR Gate truth table.

4. List three examples where logic gates can be used practically in today's world.

    a. Teaching Method – lecturer compiled notes handed to learner, presented in slide form for self learning.

    b. Teaching Materials – SLS, internet connectivity on desktop or laptop computer.

    c. Evaluation – Practical demonstration.