

21st April 2020

Numbers and Computers Course

Name of the course: Binary Logic

Learning Objectives

Part One -

1. The learner shall demonstrate knowledge of numbering systems.
 - a. Teaching Method – Lecture material compiled by instructor, presented in slide form for self learning.
 - b. Teaching Materials – Self Learning Slides (SLS), internet connectivity on desktop or laptop computer.
 - c. Evaluation – Learner can demonstrate his/her understanding correctly.
 - d. Lesson content –
 - i. Numbers.
 1. Natural Numbers.
 2. Real Numbers.
 3. Integers.
 4. Rational Numbers.
 5. Complex Numbers.
 - ii. Computer Numbering Systems.
 1. Binary.
 2. Octal.
 3. Hexadecimal.

Part Two –

2. The learner is to demonstrate understanding of how computers can represent Numbers.
 - a. Teaching Method – Lecture materials handed out to the learner, presented in slide form for self learning.

- b. Teaching Materials –SLS, internet connectivity on desktop or laptop computer.
- c. Evaluation – Practical demonstration.
- d. Lesson content –
 - i. Voltage levels and signals.
 - ii. Voltage levels and numbers.

