

CICT/DICT0111 INTRODUCTION TO COMPUTERS AND OPERATING SYSTEMS

Purpose of the Course

This module unit is designed to equip the learner with knowledge, skills and attitudes that will enable him/her to understand the operations of computer systems and manage operating systems.

Expected Learning Outcomes

By the end of this module topic, the learner should be able to:

- a) Describe the role of computer technology.
- b) Describe computer hardware and software components, and their functions
- c) Disassemble and assemble the computer hardware and software components.
- d) Appreciate and apply basic computer operations
- e) Describe the operating system concept and functions
- f) Describe and operate the basic operating systems functions

Course Content

Introduction to computers, Computer System, introduction to operating systems, examples of popular operating systems, operating system interfaces, computer input/output systems, File management and storage, Basic computer networking, Computer safety, emerging trends and ethical issues in the ICT sector

Mode of delivery

- Interactive lectures
- Practical demonstrations
- Computer Laboratory practicals

Instructional materials

- Text books & Journals
- UPS/Power Surge equipments
- Computer System
- Whiteboard
- Handouts
- LCD projectors

Course assessments

- Assignment
- Computer Laboratory practical
- Mid-term Exam
- Final Exam

Core reading materials:

- 1) Pepela C. (2004). Foundations of Computer Studies. Ujuzi Educational Publishers. Nairobi, Kenya.
- 2) Mohan, P. (2010). Fundamentals of IT. Global Media. India
- 3) Praveen G., et. Al. (2008). Basic Concepts of IT Workshop. Global Media.India

Recommended Reference materials:

- 1) Rajaraman V. (2010). Fundamentals of Computers. 5th Edn. PHI Learning Private Ltd. India.
- 2) French C. S. (1996). Computer Science. 5th Edn. Padstow: TJ International.