

IT6001

Computer Systems



Course Aim To provide students with an understanding and appreciation of the computer system architecture and operations. It will introduce students to computer hardware, low level software and operating systems with emphasis on the concepts required to understand internal operations of computer systems.

Short Title

Faculty EDICT

Credits 15

Pre-requisites None

Co-requisites None

Anti-requisites None

Version 7

Effective From September 1, 2017

NQF Level 6

Student Contact hrs 60

Self-directed hrs 90

Other directed hrs 0

Total learning hrs 150

Learning

Outcomes

On successful completion of this course, students will be able to:

- 1 Demonstrate detailed knowledge and understanding of core computer theories, principles, concepts and hardware architecture and system software.
- 2 Implement assembly language programs to solve problems
- 3 Solve problems relating to data representation, logic and Boolean equations
- 4 Deploy a computer system to a given business requirement.
- 5 Troubleshoot hardware and software problems in a computer system

NQF Sub-strand

Theoretical
Understanding

Practical
Application of
knowledge

Generic, Problem
Solving and
Analytical Skills

Theoretical
Understanding

Practical
Application of
knowledge