

IT6010

Maths for Computing



Course Aim To develop the ability to apply standard mathematical and statistical techniques which can be used in the ICT sector.

Short Title None
Faculty EDICT
Credits 15
Pre-requisites None
Co-requisites None
Anti-requisites None

Version 2
Effective From February 2016
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 Apply a range of statistical measures to defined and undefined ICT scenarios.
- 2 Utilize algebraic number theory principles to solve ICT problems.
- 3 Apply communication theory concepts on given scenarios.
- 4 Use some advanced geometrical methods in simulation applications.
- 5 Solve advanced cryptography related problems which are linked to information security.

NQF Sub-strand

Theoretical
Understanding
Practical
Application of
knowledge
Practical
Application of
knowledge
Practical
Application of
knowledge
Generic, Problem
Solving and
Analytical Skills