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

**IT6010**  
**Maths for Computing**

### 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

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  
Generic, Problem Solving and Analytical Skills