

IT6011

## Introduction to Information Security



**Course Aim** To provide students with an understanding of what information security is and its value in modern technology. Students will gain a detailed knowledge of information security through practical skills and analysis of the security requirements of organisations.

**Short Title** Intro to Info Sec  
**Faculty** EDICT  
**Polytechnic Level**  
**Credits** 15  
**Pre-requisites** IT6004 (ITB5004)  
**Co-requisites** None  
**Anti-requisites** None

**Version 4**  
**Effective From** September 1, 2018  
**Indicative NQF Level** 6  
**Student Contact hrs** 90  
**Self-directed hrs** 60  
**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 of the principles of information security and state measures to secure information.
- 2 Develop an information security policy to demonstrate security awareness.
- 3 Perform and report upon an ethical penetration test.
- 4 Demonstrate an understanding of cryptographic methods.
- 5 Identify and describe security implications for modern networks.

**NQF Sub-strand**

Theoretical  
Understanding  
Practical  
Application of knowledge  
Practical  
Application of knowledge  
Practical  
Application of knowledge  
Theoretical  
Understanding