## IT7301

## **Ethical Hacking**



Course Aim To examine Information Technology security from the hacker's point of view to allow students develop countermeasures to stop security breaches. This will give students an insight into how to secure systems and to be work ready in the field of

Information Technology with a focus on security.

Short Title none Version 3
Faculty EDICT Effective From September 1, 2018
Polytechnic Level Indicative NQF Level 7
Credits 15 Student Contact hrs 90
Pre-requisites IT6003 (ITB5003) & IT6004 (ITB5004) & Self-directed hrs 60

re-requisites 116003 (1185003) & 116004 (1185004) & Self-directed hrs 60 IT6008 (ITB5008)

Co-requisites None Other directed hrs 0
Anti-requisites none Total learning hrs 150

Learning	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1 Explain the motivation, concepts and technologies used in ethical hacking.	Theoretical Understanding
	2 Design a security policy to protect data assets from being compromised.	Generic, Problem Solving and Analytical Skills
	3 Critically analyze network enabled software applications and hardware devices for security vulnerabilities.	Practical Application of knowledge
	4 Implement advanced ethical penetration tests on a controlled test environment.	Practical Application of knowledge
	5 Defend network infrastructure from a range of basic attacks using industry defined countermeasures.	Practical Application of knowledge