

APPROVED

Programme Code	MSCCYB	Programme Duration	1
Programme Level	9	EQF Level	7
Programme Credits	90	EHEA Level	Second Cycle
Semester Duration	1 Week(s)		
Language of Instruction	English		
CAO Code; QQI Programme Code etc	Code		
Programme Extra Information	Note 1: A student must pass Research in Computing and not repeat more than 10 ECTS credits to be eligible to register for the Internship Note 2: Learners must complete and pass Internship.		

Programme Outcomes

On successful completion of this programme the learner will be able to :

Description
MIPLO1: Compare and contrast technical concepts of security, technologies and tools that support secure application development, application and service vulnerability detection and patching, data and logs retrieval and analysis. MIPLO4: Utilise practical skills, technologies and tools that support secure programming, application and service vulnerability detection and patching, cryptanalysis, security incidents detection and log file analysis. MIPLO5: Integrate technologies and security concepts to solve a challenging Cyber Security problem and to successfully plan, develop and test a security product within a given context (e.g. cloud security and forensics).
MIPLO1: Compare and contrast technical concepts of security, technologies and tools that support secure application development, application and service vulnerability detection and patching, data and logs retrieval and analysis. MIPLO2: Research by applying standard and customised research methodologies and critically, analyse, evaluate and synthesise original works in a number of cutting-edge Cyber Security topics.
MIPLO2: Research by applying standard and customised research methodologies and critically, analyse, evaluate and synthesise original works in a number of cutting-edge Cyber Security topics. MIPLO3: Communicate effectively to a range of audiences in both written and verbal media. MIPLO5: Integrate technologies and security concepts to solve a challenging Cyber Security problem and to successfully plan, develop and test a security product within a given context (e.g. cloud security and forensics). MIPLO7: Analyse, identify and document measures to address vulnerabilities, risks, weaknesses, and other safety aspects relevant to computing systems within a given context (e.g. cloud security and forensics). MIPLO8: Identify knowledge gaps and undertake self-learning to acquire new knowledge and meet the requirements of the rapidly developing and expanding security industry.
MIPLO2: Research by applying standard and customised research methodologies and critically, analyse, evaluate and synthesise original works in a number of cutting-edge Cyber Security topics. MIPLO3: Communicate effectively to a range of audiences in both written and verbal media. MIPLO5: Integrate technologies and security concepts to solve a challenging Cyber Security problem and to successfully plan, develop and test a security product within a given context (e.g. cloud security and forensics). MIPLO8: Identify knowledge gaps and undertake self-learning to acquire new knowledge and meet the requirements of the rapidly developing and expanding security industry.
MIPLO5: Integrate technologies and security concepts to solve a challenging Cyber Security problem and to successfully plan, develop and test a security product within a given context (e.g. cloud computing, big data and forensics). MIPLO6: Make decisions and address security requirements through analytical thinking, communication and interaction. MIPLO7: Analyse, identify and document measures to address vulnerabilities, risks, weaknesses, and other safety aspects relevant to computing systems within a given context (e.g. Cloud computing or forensics).
MIPLO3: Communicate effectively to a range of audiences in both written and verbal media. MIPLO6: Make decisions and address security requirements through analytical thinking, communication and interaction.
MIPLO2: Research by applying standard and customised research methodologies and critically, analyse, evaluate and synthesise original works in a number of cutting-edge Cyber Security topics. MIPLO8: Identify knowledge gaps and undertake self-learning to acquire new knowledge and meet the requirements of the rapidly developing and expanding security industry.
MIPLO2: Research by applying standard and customised research methodologies and critically, analyse, evaluate and synthesise original works in a number of cutting-edge Cyber Security topics. MIPLO3: Communicate effectively to a range of audiences in both written and verbal media.

Semester Schedules

Stage 1 / Semester 1

Core Subject	
Module Code	Title
H9ITLW	IT Law and Ethics
H9NSPT	Network Security and Penetration Testing
H9SPW	Secure Programming for Web
H9SFND	Security Fundamentals

Stage 1 / Semester 2

Core Subject	
Module Code	Title
H9CRYPT	Cryptography
H9RCOMP	Research In Computing
H9SPAD	Secure Programming for Application Development
Optional	
Module Code	Title
H9CS	Cloud Security
H9DCXT	Domain Context
H9FRED	Forensics and eDiscovery
H9IRSAN	Incident Response and Analytics
H9MWAN	Malware Analysis

Stage 1 / Semester 3

Core Subject	
Module Code	Title
H9ITNS	Internship

H9RTM

[Research Methods](#)