

Cyber Security

Module Code:	COS6008-B
Academic Year:	2018-19
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 6
Module Leader:	Dr Andrea Cullen

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	24
Directed Study	176

Availability Periods

Occurrence	Location/Period
NLA	Namal College / Semester 1 (Sep - Jan)
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

To develop a comprehensive understanding of the underlying technologies of secure systems and a critical awareness of the inherent risks and related privacy issues of their use in business.

Outline Syllabus

Issues involved in being protected from the unauthorised access, damage and attack of computerised systems, and ethical and legal principles. The cybercrime environment and

how to protect personal, social and business information. General legislation, data protection and regulations. Critical examination and analysis of case study material and current research papers/reports. The opportunity to participate in visiting speaker seminars to provide an industrial perspective on current and up to date security issues in the workplace.

Reading List:

Goodrich and Tamassia (2014) Introduction to Computer Security:
Pearson New International Edition ISBN-13: 9781292025407

Bazzell (2013) Hiding from the Internet: Eliminating Personal Online Information, ISBN-13:
978-1478277293

Bazzell (2013) Personal Digital Security: Protecting Yourself from Online Crime

Luna J (2012) How to Be Invisible: Protect Your Home, Your Children, Your Assets, and Your Life

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Analyse, discuss and explain the nature of cybercrime and the ethical, technical, and legal issues involved.
- 2 Develop and explain solutions for effectively securing electronic systems.
- 3 Demonstrate skills of research, problem-solving and communication. Be a self-directed, independent learner who shows initiative and personal responsibility.

Learning, Teaching and Assessment Strategy

Formal input provided by lectures, supported by practical examples from videos, and readings (LO1, LO2). Case studies used, where appropriate, to illustrate issues raised by secure electronic systems used in personal, social and business environments (LO1, LO2). Directed study includes directed reading, individual reading of journal and conference papers. Assessment by group presentation and individual coursework (LO3) takes account of issues relevant today and the theoretical material discussed in class. Supplementary assessment will repair deficiencies supplementing the group presentation with an individual assignment.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Coursework two (individual report - 3000 words and	0 hours	100%	Yes

group
presentation - 30
minutes)

Legacy Code (if applicable)

CM-0358D

Reading List

To view Reading List, please go to [rebus:list](#).