

Module Details	
Module Title:	System Security Management
Module Code:	COS5017-B
Academic Year:	2019-20
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 5
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Tutorials	8
Laboratory	52
Directed Study	140

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims
To initiate and understand the concepts and principals of computer misuse, criminal acts and detection. This will help the development of student's skills in discovering, regulating and uncovering hidden and disguised information. It will also contribute to the appreciate of importance of information and data security.

Outline Syllabus
Depending on student progress and material acceptance, this module will briefly cover part or all of the following: Overview of the computer: types of storage, hard disks and floppy disks, allocated vs

unallocated space, deleted files, ambient data, slack space, shadow data, windows swap files.

Overview of computer forensics. Techniques for evidence gathering and analysis. Commonly used hardware and software forensic tools; methods used to recover hidden/erased/disguised data. Intrusion detection. Computer security and how to improve it: security standards, secure methods and diagnostics. Firewalls & Encryption; acceptable encryption policies, encryption/decryption methods. Risk assessment. Practical examples in computer crime investigation.

Learning Outcomes

1	Appreciate real world data security incidence Knowledge and understanding of incident and response process to it Appreciation of post incidence process
2	Appreciation of network-based evidence and evidence handling Knowledge and understanding of different operating systems structure
3	Appreciation of computer networks and network traffic and their impact on information security

Learning, Teaching and Assessment Strategy

This module is based around laboratory practical sessions during which topics are self-explored. The time is made up of preparation of project work, private study and directed reading. This module is 100% practical, and is used to develop/enhance skills and familiarity with computer system technologies related to its security through the assessed project work. Any student required to take supplementary assessment are required to repair the deficiency in the original assessment. All assessments are lab based and are normally under exam conditions.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Laboratory Report	Lab coursework delivered in the lab under exam condition at the end of the semester	2 hours	100%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of

teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.