UNIVERSITY of BRADFORD

Module Descriptor

System Security Management

Module Code:	COS5017-B
Academic Year:	2018-19
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 5
Module Leader:	Dr Mumtaz Kamala

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Tutorials	8
Laboratory	52
Directed Study	138
Examinations DO NOT USE	2

Availability Periods

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

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.

Module Learning Outcomes

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

1 Appreciate real world date 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 nomrally under exam conditions.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Laboratory Report	Lab coursework delivered in the lab under exam condition at the	2 hours	100%	Yes

	end of the semester

Legacy Code (if applicable)

CM-0234D

Reading List

To view Reading List, please go to **rebus:list**.