

Summary Information

Module Code	7139COMP
Formal Module Title	Information Security Management
Owning School	Computer Science and Mathematics
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	11
Seminar	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To develop a deep appreciation of information security problems To develop skills relating to security risk assessment and control analysis To develop an appreciation of the complexity of using standards such as ISO-27001 To gain experience in engaging in debates around legal, ethical and professional issues relating to information security.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate a complex information system in terms of its security
MLO2	2	Apply security risk assessment methods to a complex information system.
MLO3	3	Show critical awareness of the significant challenges involved in managing information security processes using standards
MLO4	4	Appreciate complex legal and ethical situations relating to information system security

Module Content

Outline Syllabus	<p>Concepts in information management: information, management, processes, human factors, standards, compliance. Security fundamentals: threats, vulnerabilities, attacks, risk, models for security, defence, controls, and constraints (e.g. economic/business) on managing security. Understanding Information Security Management: risk assessment, policy, controls, personnel, education, monitoring and review, compliance, assurance. Risk Management and Risk Assessment Standards for ISM: ISO/27001 and PCI-DSS Digital forensics, incident response, business continuity. Legal constraints: data protection and privacy, intellectual property, computer misuse, surveillance, fraud. Professional issues: ethics, privacy, professional bodies, certification.</p>
Module Overview	<p>This module will develop an appreciation of information security problems and develop skills relating to risk assessment and control analysis. You will develop an appreciation of using standards such as ISO-27001. You will gain experience in engaging in debates around legal, ethical and professional issues relating to information security.</p>
Additional Information	<p>The term Information Security Management generally refers to the wide range of ongoing processes that information security practitioners engage in, although typically excludes development of solutions through software development. The module will develop analysis skills in understanding security threats, vulnerabilities, attacks and risks, as well as focussing is on management standards (such as PCI-DSS and ISO27001) and information governance, compliance, ethical and legal aspects of being an information security professional.</p>

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Risk Assessment	40	0	MLO1, MLO2
Centralised Exam	Examination	60	2	MLO4, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Robert Askwith	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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