

H8ITGSE: IT Governance, Security and Ethics

Module Code:	H8ITGSE
Long Title	IT Governance, Security and Ethics APPROVED
Title	IT Governance, Security and Ethics
Module Level:	LEVEL 8
EQF Level:	6
EHEA Level:	First Cycle
Credits:	5
Module Coordinator:	
Module Author:	Alex Courtney
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	Master's degree/PhD in Law, Governance, Privacy, Ethics, etc.
Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Describe and explain IT and security governance and discuss relevant frameworks.
LO2	Discuss a broad range of core policies, legal aspects in IT and security governance.
LO3	Discuss current models of information and computer ethics, relevant standards and current standardization efforts and evaluate the evolving nature of ethical norms relating to new technologies.
Dependencies	
Module Recommendations	
No recommendations listed	
Co-requisite Modules	
No Co-requisite modules listed	
Entry requirements	Learners should have attained the knowledge, skills and competence gained from stage 3 of the BSc (Hons) in Computing.

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Module Content & Assessment			
Indicative Content			
Introduction to IT Governance Introduction to: . Information Governance. IT Governance. Data Governance . Definitions, Principles, How are they different			
IT Governance cont. Risk Management . Relevant Frameworks/Standards (e.g. COBIT, ISO38500)			
Introduction to Ethics . Ethics for IT workers and users – Professional organisations, codes of ethics, certification. Introduction to Information Technology Ethics . Anticipating and assessing ethical issues in emerging IT . Ethical decision-making online. Regulation of the internet			
Information Technology Ethics – Emerging Technologies Ambient technology – Biometrics – Digital platforms – Health technology – Internet of things – Persuasive technologies – Social networking – Spam – Virtual & augmented reality. Autonomy and identity – Anonymity, privacy and surveillance – Freedom of expression, censorship and filtering – Security – Justice – Balance of Power – Digital divide. Ethics in software development (codes of ethics such as the ACM/IEEE-CS Software Engineering Code of Ethics and Professional Practice). Ethics in AI. Current standardization efforts in emerging technologies (e.g. AI). Ethical implications across the area of specializations will be discussed (e.g. ethical hacking, ethics of data, ethics in Digital transformation, etc.).			
Legal aspects This topic discussed how laws and technology intersect in the context of the judicial structures that are present – international, national and local . Law vs Ethics. Compliance efforts include those efforts to conform to laws, regulations, and standards, and to include breach notification requirements by state, national, and international governing authorities . Contract Law, e-Commerce Law. Data Protection Law . Contemporary Legal Issues of Big Data, Virtual Currencies, Blockchain, Cloud Computing, Machine Learning & AI			
Security Governance and policy security policy development cycle, from initial research to implementation and maintenance . Organizational context. Privacy. Law and compliance: Examples of international laws and standards include GDPR and ISO/IEC 27000 et al. . implementation of security governance and policy within global, national, and local laws, regulations and standards; managerial policy (NIST SP 800-12 Rev 1)			
Strategy and Planning Cybersecurity planning. Business Continuity, Disaster Recovery, and Incident Management (review, relevant standards e.g. ISO 22301). Security operations. Other organizational security elements from Security Fundamentals and Development are going to be reviewed and put in the context of governance, security, ethics, compliance			
Assessment Breakdown			%
Coursework			40.00%
End of Module Assessment			60.00%
Assessments			
Full Time			
Coursework			
Assessment Type:	Formative Assessment	% of total:	Non-Marked
Assessment Date:	n/a	Outcome addressed:	1,2,3
Non-Marked:	Yes		
Assessment Description: Analysis, discussions in group having as object various real-world examples/case studies.			
Assessment Type:	Continuous Assessment	% of total:	40
Assessment Date:	n/a	Outcome addressed:	3
Non-Marked:	No		
Assessment Description: Students are to analyse the ethical implications of a selected topic, preferably in their area of specialization, and to write a research-style paper that documents these.			
End of Module Assessment			
Assessment Type:	Terminal Exam	% of total:	60
Assessment Date:	End-of-Semester	Outcome addressed:	1,2
Non-Marked:	No		
Assessment Description: The end of semester examination will contain questions on the concepts studied, may also contain various scenarios that students should assess, debate, etc. Marks will be awarded based on clarity, structure, relevant examples, depth of topic knowledge.			
No Workplace Assessment			
Reassessment Requirement			
Repeat examination <i>Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.</i>			
Reassessment Description Repeat examination Reassessment of this module will consist of a repeat examination. The repeat assessment will address all learning outcomes.			

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Module Workload				
Module Target Workload Hours 0 Hours				
Workload: Full Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	Classroom & Demonstrations (hours)	24	Per Semester	2.00
Tutorial	Other hours (Practical/Tutorial)	12	Per Semester	1.00
Independent Learning	Independent learning (hours)	89	Per Semester	7.42
Total Weekly Contact Hours				3.00

Module Resources	
<i>Recommended Book Resources</i>	
Robert F. Smallwood. (2014), Information Governance, John Wiley & Sons, p.442, [ISBN: 9781118218303]. M. Spremić.. (2017), Governing digital technology - how mature IT governance can help in digital transformation? International Journal of Economics and Management Systems,vol, 1, pp214, 2, no. M Carcary.. (2018), IT GOVERNANCE - Enabling effective, efficient, and acceptable use of IT, http://mural.ie/, maynoothuniversity.	
<i>Supplementary Book Resources</i>	
Robert F. Smallwood. (2014), Information Governance, John Wiley & Sons, p.442, [ISBN: 9781118218303]. Article/Paper List. Type. Item.	
<i>This module does not have any article/paper resources</i>	
<i>This module does not have any other resources</i>	
Discussion Note:	