

Module Details	
Module Title	ISO27000 Framework (Information Security Management System)
Module Code	COS7030-B
Academic Year	2022/3
Credits	20
School	Department of Computer Science
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Practical Classes or Workshops	24 - 2 hours per week; both modes: online and offline (50%/50%)
Tutorials	24 - 2 hours per week; both modes: online and offline (50%/50%)
Directed Study	152

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
To develop a comprehensive understanding of an Information Security Management System (ISMS) based on ISO27001 compliance.

Outline Syllabus
How to implement a compliance framework for ISO27001; fundamental principles of information security (e.g., confidentiality, integrity and availability); privacy engineering; information security control best practice based on ISO27002 (including reference to ISO22301); planning and implementing ISMS; performance evaluation, monitoring and measurement of an ISMS; continual improvement of an ISMS; preparation for an ISMS audit.

Learning Outcomes	
Outcome Number	Description
01	Explain and summarise the correlation between ISO/IEC 27001, ISO/IEC 27002, ISO/IEC 27701 and other standards and regulatory frameworks.
02	Explain constitutive concepts, methods and frameworks of privacy engineering.
03	Apply the concepts, approaches, methods and techniques used for the implementation and effective management of an ISMS and Privacy Information Management System (PIMS).
04	Interpret appropriately the ISO/IEC 27001 requirements in the specific context of an organization and how to support an organization to effectively plan, implement, manage, monitor and maintain an ISMS.
05	Provide best practice advice to an organization on implementing ISMS and PIMS.
06	Apply skills of research, problem-solving and communication.

Learning, Teaching and Assessment Strategy
Students will develop the knowledge, understanding and skills necessary to meet the learning outcomes of the module through the module's instructional learning and teaching strategy; team based learning. Students will study the core knowledge-based content of the module out of class; this is then assessed through a series of individual readiness assurance tests (i-RAT), which are MCQ assessments for learning taken at regular intervals throughout the semester. Students discuss the i-RAT assessment in teams of 5-7 and retake the assessment as a team (t-RAT). In class sessions, students will apply their new knowledge to a number of formative and summative team application exercises during the academic year. Similarly, InteDashboard will enable to conduct all of the above activities online. Students will also be expected to undertake self-directed reading of academic journals and conference papers and the development of coursework through preparation of a portfolio. Assessment by an individual portfolio to demonstrate skills and knowledge related to an ISO27001 implementation (70%) and the remaining 30% to reflect student engagement as defined by the module leader and to include: submission of formative work for assessment; iRATS; tRATS.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	Practical ISO27000 Exercise (develop and document an ISMS).	70%
Summative	Attendance requirement	Student Engagement (E.g. IRAT TRAT Formative assessment, peer evaluation)	30%

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.

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