

ISO27000 Framework (Information Security Management System)

Module Code:	COS7030-B
Academic Year:	2018-19
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 7 (Masters)

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Practical classes and	24
Tutorials	24
Directed Study	152

Availability Periods

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

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; 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.

Module Learning Outcomes

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

- 1 Explain and summarise the correlation between ISO/IEC 27001, ISO/IEC 27002 and other standards and regulatory frameworks.
- 2 Apply the concepts, approaches, methods and techniques used for the implementation and effective management of an ISMS.
- 3 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.
- 4 Provide best practice advice to an organization on implementing Information Security Management Systems.
- 5 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. 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; i_RATS; t-RATS; and peer evaluation.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Practical ISO27000 Exercise (develop and document an ISMS).	Equivalent to 4000 words	70%	Yes
Summative	Attendance requirement	Student Engagement (E.g. IRAT TRAT		30%	No

Formative
assessment, peer
evaluation)

Legacy Code (if applicable)

CM-1075D

Reading List

To view Reading List, please go to [rebus:list](#).