

WM243-18 Information Management

20/21

Department

WMG

Level

Undergraduate Level 2

Module leader

Tony Green

Credit value

18

Module duration

30 weeks

Assessment

Multiple

Study location

University of Warwick main campus, Coventry

Description

Introductory description

Information Management is primarily concerned with the capture, digitisation, representation, organisation, transformation, and presentation of information; algorithms for efficient and effective access and updating of stored information; data modelling and abstraction; and physical file storage techniques. Cyber security has to be embedded within information management.

Module aims

- 1 - Interact with repositories of information via suitable queries
- 2 - Critically evaluate the cyber consequences that flow from the management of information in a given scenario.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Outline content

The content of this module will be taught from a cyber security perspective.

- information management concepts

- database systems
- data modelling
- relational databases
- access control

Learning outcomes

By the end of the module, students should be able to:

- 1 - Interact with repositories of information via suitable queries
- 2 - Critically evaluate the cyber consequences that flow from the management of information in a given scenario.

Indicative reading list

Connolly, Thomas and Begg, Carolyn, "Database Systems: A Practical Approach to Design, Implementation, and Management", 6 Ed, Pearson (2014)

Cox, Sharon A., "Managing Information in Organizations: A Practical Guide to Implementing an Information Management Strategy", Palgrave Macmillan (2014)

Hills, Ted, "NoSQL and SQL Data ModelingModelling: Bringing Together Data, Semantics, and Software", Technics Publications (2016)

Subject specific skills

- 1 - Interact with repositories of information via suitable queries
- 2 - Critically evaluate the cyber consequences that flow from the management of information in a given scenario.

Transferable skills

Information literacy

Study

Study time

Type	Required
Supervised practical classes	18 sessions of 2 hours 30 minutes (25%)
Private study	46 hours (26%)
Assessment	89 hours (49%)
Total	180 hours

Private study description

Independent activity between workshops, following up on activities initiated in previous workshops or preparing for upcoming workshops.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time
Coursework 1	50%	
Coursework 2	50%	

Assessment group R1

	Weighting	Study time
Coursework (Resit)	100%	

Feedback on assessment

Written feedback for each assignment
Verbal feedback during tutorial sessions
Solutions provided to tutorial questions
Summative feedback on assignments and exam

Availability

Courses

This module is Core for:

- UWMA-H651 Undergraduate Cyber Security
 - Year 2 of H651 Cyber Security
 - Year 2 of H651 Cyber Security
 - Year 2 of H651 Cyber Security