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MODULE DESCRIPTOR

Module Title

Professional Development and Research Skills

Reference	CMM507	Version	6
Created	April 2017	SCQF Level	SCQF 11
Approved	November 2003	SCQF Points	15
Amended	August 2017	ECTS Points	7.5

Aims of Module

To develop practical planning and communication skills and gain familiarity with research methods relevant to a rapidly evolving technological discipline. To foster an awareness of ethical and legal implications of IT. To develop collaborative skills.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- ¹ Undertake a literature search, identifying various information resources (on-line and off-line) and access these in order to obtain relevant and up-to-date information on a topic of specialist interest.
- With other members of a team, assess and evaluate the legal aspects of workplace practices with respect to intellectual property rights, copyright issues, contracts pertaining to software development/IT projects, product liability and data protection.
- ³ Plan and manage a major software development or research project, using appropriate software tools to create, evaluate and monitor the progress of the project.
- 4 Evaluate research claims and/or analyse software performance using simple statistical techniques to lend scientific rigour to the process of evaluation.

Indicative Module Content

Library skills: literature searches; information sources (on-line and off-line). Legal Issues: Social and ethical implications of IT; copyright; patents; intellectual property rights; contracts; product liability; data protection. Project planning and management: skills; tools and techniques; configuration management. Report writing: citation styles; practical skills in formatting, building contents and indices; report writing style. Evaluation: experimental design; reproducible research; evaluation of research outcomes. Statistics: experimental design; data analysis; inference.

Module Delivery

The course content is delivered by a combination of lectures and interactive lab sessions, and is based on extensive use of case studies.

	Module Ref:	CMM50	7 v6
Indicative Student Workload		Full Time	Part Time
Contact Hours		44	44
Non-Contact Hours		106	106
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		150	150
Actual Placement hours for professional, statutory or regulatory boo	dy		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	This is a coursework. students will devise a techniques to undertal	For a given brief, stu project plan, design a ke analysis and eval	dents will co an experime uation.	onsider professional, social and l ent and, given data, use statistica	egal issues; al

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The coursework pass grad	le is D.
Module Grade	Minimum Requirements to achieve Module Grade:
Α	To achieve an A, the student must achieve an A in Component 1.
В	To achieve a B, the student must achieve a B in Component 1.
С	To achieve a C, the student must achieve a C in Component 1.
D	To achieve a D, the student must achieve a D in Component 1.
E	To achieve an E, the student must achieve an E in Component 1.
F	To achieve an F, the student must achieve an F in Component 1.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements	
Prerequisites for Module	None in addition to the standard entry requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 BAINBRIDGE, D., 2008. Introduction to Information Technology Law, Pearson.
- 2 BELL, J., 2014. Doing Your research Project. Open University Press.
- 3 BOWDEN, J., 2011. Writing a report: How to prepare, write and present really effective reports. How To Books Ltd.
- 4 BLAIR, L., 2016. Writing a Graduate Thesis or Dissertation. Sense Publishers.
- 5 CRESWELL, J.W. , 2014. Research design: qualitative, quantitative, and mixed methods approaches. Sage.
- 6 MADSEN, B., 2016, Statistics for non-statisticians. Springer.