

## MODULE DESCRIPTOR

### Module Title

MSc Project

Reference	CMM513	Version	8
Created	April 2017	SCQF Level	SCQF 11
Approved	December 2005	SCQF Points	45
Amended	August 2017	ECTS Points	22.5

### Aims of Module

To undertake a substantial research, IT, computing, security, network management or data analytics project, based on the specification developed during the project investigation module, in order to acquire a comprehensive understanding of the problem and its domain. To develop a solution from this specification and, if appropriate, implement and report on the results within a fixed time frame.

### Learning Outcomes for Module

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

- 1 Select and justify appropriate quantitative and qualitative methods and tools to solve a given IT, computing, security, network management or data analytics problem.
- 2 Prepare a project plan, including use of resources, and conduct regular reviews of the plan which consider risk evaluation as well as any social, ethical, legal and professional issues arising from changes to the plan.
- 3 Develop a research strategy / professional solution to an IT, computing, security, network management or data analytics problem, within known constraints, managing any risks arising from the work. The solution should include a substantial application of technical skills (e.g. software development solution) or a significant piece of original research.
- 4 Evaluate the work undertaken using appropriate quantitative and/or qualitative methods and interpret the results obtained where appropriate.
- 5 Communicate effectively, both orally and in written form, key aspects of the project, justifying the chosen solution and explaining technical details where appropriate.

### Indicative Module Content

The development of a plan and breakdown of activities which takes into account the results of risk evaluation. An overall and a detailed research strategy/design specification. The development of a solution to the problem at hand. Regular reviews of the plan including social, ethical, legal and professional issues arising from changes to the plan. The evaluation of scientific risk and subsequent risk management. The critical evaluation of the solution to the problem using quantitative and/or qualitative methods. A review of the work with recommendations for future research/development. A practical demonstration of the operational project and conclusions, including an oral presentation. A final report and all software or video demonstration as appropriate.

### Module Delivery

Within an IT, computing, security, network management or data analytics context, students undertake the design, development, implementation, testing, evaluation, documentation and demonstration of a project. Students will be allocated an academic supervisor with whom they will have face to face meetings, conference calls and/or electronic communications.

### Indicative Student Workload

	Full Time	Part Time
Contact Hours	14	14
Non-Contact Hours	436	436
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	450	450
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

### ASSESSMENT PLAN

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

#### Component 1

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	Report				

### MODULE PERFORMANCE DESCRIPTOR

#### Explanatory Text

The calculation of the overall grade for this module is based on 100% weighting of C1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	The student needs to achieve an A in C1.
<b>B</b>	The student needs to achieve a B in C1.
<b>C</b>	The student needs to achieve a C in C1.
<b>D</b>	The student needs to achieve a D in C1.
<b>E</b>	The student needs to achieve an E in C1.
<b>F</b>	The student needs to achieve an F in C1.
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	CMM512 or CMM540
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 "BCS Code of Conduct" obtained from <http://www.bcs.org/category/6030> [accessed 13/3/2017].
- 2 HUGHES, B. & IRELAND, R., West, B., SMITH, N. and SHEPERD, D. 2012. Project Management for IT related projects. 2nd ed. BCS.
- 3 PRESSMAN, R., 2009. Software Engineering: A practitioner's approach. 7th ed. McGraw-Hill.
- 4 CRESWELL, J.W., 2014. Research design: qualitative, quantitative, and mixed methods approaches. Sage.
- 5 CADLE, J. & YEATES, D. 2007. Project management for information systems. 5th ed. Prentice Hall.