Title	Computer Science Project
Long Title	Computer Science Project
Credits	**10**
NFQ Level	**8**
Module Author	**Eoin O'Regan**

Module Description:

This module develops within the learner the knowledge, know-how and skills, and competences required to successfully complete a computer science project in accordance with an approved plan. The module requires the learner either individually or as part of a team to develop, implement and critically assess a detailed methodology to address a defined problem within a prescribed time-frame. The learner is expected to be self motivated whilst working under direction of a project supervisor and to communicate the process and outcomes of their work in a style and manner appropriate for professional practitioners in the discipline.

Learning Outcomes

On successful completion of this module the learner will be able to:

LO1	Undertake a comprehensive review of relevant and appropriate literature to determine current knowledge in the project area.
LO2	Review suitable methodologies with the aim of selecting and adapting an appropriate methodology for a computer science project.
LO3	Develop a project plan that will meet the needs of identified stakeholders.
LO4	Systematically review and adapt the methodology in response to practical, real-world constraints.
LO5	Use appropriate written and oral communication skills required of the professional practitioner to convey the underlying message of the project.
LO6	Critically assess the project outcomes.

Indicative Content

Literature Review
Gather, critically analyze and reference research and other appropriate literature in the areas of computer science covered as part of the course.

Core Problem
Formulate the core research question(s) to be addressed by the project.

Development of Methodology
Formulate and assess viable methodologies and technologies to address the identified research question(s) with a view to identifying the most appropriate methodology and technology(ies).

Project Planning & Implementation
Supervised self-directed learning, utilizing the identified methodologies and technologies, that addresses the learning outcomes specified for the module and which draws on the curriculum content as a whole.

Written Report
Write a professional report in a manner appropriate to the discipline.

Oral Presentation
Making an oral presentation on the undertaken project and its research outcomes.

Course Work

Assessment Type	Assessment Description	Outcome Addressed	% of Total	Assessment Date
Written Report	Interim written report with project plan and outline of initial literature review and progress made towards the development of a methodology or analysis and design.	1, 2, 3	20.0	Week 5
Presentation	Oral and / or poster presentation on the project.	1,2,3,4,5,6	20.0	Sem End
Written Report	Comprehensive written report detailing and assessing research outcomes and / or analysis and design of the project.	1,2,3,4,5,6	30.0	Sem End
Other	Mark associated with initiative, decision making, application and demonstration / performance / implementation of project outcomes.	1,2,3,4,5,6	30.0	Sem End

No End of Module Formal Examination

Assessment Breakdown

	%
Coursework	100

Re-Assessment Requirement

Coursework Only
This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

Workload – Full Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Leaner Workload
Lecturer-Supervised Learning (Contact)	Supervision provided by regular meetings with project supervisor.	0.5	Every Week	0.50

Independent & Directed Learning (Non-contact)	Independent research and development.	13.5	Every Week	13.50
	Total Hours			14.00
	Total Weekly Learner Workload			14.00
	Total Weekly Contact Hours			0.50

Workload – Part Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Leaner Workload
Lecturer-Supervised Learning (Contact)	Supervision provided by regular meetings with project supervisor.	0.5	Every Week	0.50
Independent & Directed Learning (Non-contact)	Independent research and development.	13.5	Every Week	13.50
	Total Hours			14.00
	Total Weekly Learner Workload			14.00
	Total Weekly Contact Hours			0.50

Recommended Book Resources

- **Bryan Greetham 2014, *How to Write Your Undergraduate Dissertation*, 2nd ed. Ed., Palgrave Macmillan [ISBN: 9781137389763]**

- **Gary Thomas 2011, *Doing Research*, Palgrave Macmillan [ISBN: 9780230290167]**

Supplementary Book Resources

- **Kate Williams 2013, *Planning Your Dissertation*, Palgrave Macmillan [ISBN: 9781137327949]**

This module does not have any article/paper resources

Other Resources

- **Website: The Irish Centre for Cloud Computing & Commerce*Core Research Areas***

  http://www.ic4.ie/research