

2024 / 25

School of Science and Computing

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**SE
TU**

Ollscoil
Teicneolaíochta
an Oirdheiscirt

South East
Technological
University

Module Descriptor

Project 1 (Research) (Computing and Mathematics)

Project 1 (Research) (A14786)

Short Title: Project 1 (Research)
Department: Computing and Mathematics
Credits: 5
Level: Advanced

Description of Module / Aims

This is the capstone module for Semester one; it should bring together the student's knowledge on all aspects of IT and utilise many facets of their previous learning, with a view to identifying a suitable research problem that is to be investigated. This module requires the student to identify a research area of interest, conduct a preliminary investigation, identify suitable research question(s), conduct a literature review and critique and select a suitable methodology to enable them to gather and analyse data. In addition, it requires the student to prepare a report on the first stage of their fourth year project in conjunction with a learning contract established between student and supervisor.

Programmes

stage/semester/status		
PROJ-0167	BSc (Hons) in Applied Computing (International) (WD_KACCM_BI)	4 / 7 / E
PROJ-0167	BSc (Hons) in Applied Computing (WD_KACCM_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in Applied Computing (WD_KCOMP_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in Computer Forensics and Security (WD_KCOFO_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in Computer Science (WD_KCMSC_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in Creative Computing (WD_KCRCO_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in Information Technology Management (WD_KITMA_B)	1 / 7 / E
PROJ-0167	BSc (Hons) in Information Technology (WD_KINTE_B)	4 / 1 / E
PROJ-0167	BSc (Hons) in Multimedia Applications Development (WD_KMULM_B)	4 / 1 / E
PROJ-0167	BSc (Hons) in Software Engineering (WD_KDEVP_BI)	4 / 7 / E
PROJ-0111	BSc (Hons) in Software Systems Development (WD_KCSDV_B)	4 / 1 / E
PROJ-0167	BSc (Hons) in Software Systems Development (WD_KDEVP_B)	4 / 7 / E
PROJ-0167	BSc (Hons) in the Internet of Things (International) (WD_KINTT_BI)	4 / 7 / E

Indicative Content

- Write succinct and referenced, well-structured reports
- Introduction
- Analysis of research questions
- Literature review
- Research methodology

Learning Outcomes

On successful completion of this module, a student will be able to:

1. Appraise a research area.
2. Create appropriate research questions.
3. Complete a literature review.
4. Select an appropriate research methodology and data gathering technique.

Learning and Teaching Methods

- The students will be introduced to the theory of conducting research through a series of meetings with their supervisor, which will be interactive and discursive in nature.
- The Supervisor will meet and guide the student on a weekly basis to develop a coherent and achievable research document.

Learning Modes

Learning Type	F/T Hours	P/T Hours
Lecture	12	
Tutorial	6	
Independent Learning	117	

Assessment Methods

	Weighting	Outcomes Assessed
Dissertation	100%	1,2,3,4

Assessment Criteria

<40%: Unable to identify relevant research questions and conduct a thorough literature review.

40%–49%: Be able to identify research questions and conduct a thorough literature review.

50%–59%: Ability to identify research questions, conduct comprehensive literature review, critique research methodologies.

60%–69%: Be able to identify research questions, conduct comprehensive literature review, critique research methodologies and appraise other options.

70%–100%: All the above to an excellent level in terms of robustness, thoroughness and completeness.

Essential Material(s)

- Cresswell, J.S. *Research Methods: Qualitative, Quantitative and Mixed Methods Approaches*. New York: Sage, 2002.