SE TU

Ollscoil
Teicneolaíochta
an Oirdheiscirt

South East
Technological
University

Module Descriptor

Project 2 (Research) (Computing and Mathematics)

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Project 2 (Research)
(A14866)

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Short Title: Project 2 (Research)
Department: Computing and Mathematics
Credits: 10 **Level:** Advanced

Description of Module / Aims

This module gives the student experience in developing a computing-related project by undertaking research, based on the work the student has completed in Project 1, semester 7. The student will present their work at the end of the module by submitting a dissertation, in addition to a poster, a short video, and a presentation.

Programmes

		stage/semester/status
PROJ-0170	BSc (Hons) in Applied Computing (International) (WD_KACCM_BI)	4 / 8 / E
PROJ-0170	BSc (Hons) in Applied Computing (WD_KACCM_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in Applied Computing (WD_KCOMP_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in Computer Forensics and Security (WD_KCOFO_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in Computer Science (WD_KCMSC_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in Creative Computing (WD_KCRCO_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in Multimedia Applications Development (WD_KMULM_B)	4 / 2 / E
PROJ-0170	BSc (Hons) in Software Engineering (WD_KDEVP_BI)	4 / 8 / E
	BSc (Hons) in Software Systems Development (WD_KCSDV_B)	4 / 2 / E
PROJ-0170	BSc (Hons) in Software Systems Development (WD_KDEVP_B)	4 / 8 / E
PROJ-0170	BSc (Hons) in the Internet of Things (International) (WD_KINTT_BI)	4 / 8 / E

Indicative Content

- Incorporate feedback from project supervisors/examiners, relating to the work done in Semester 1, that work being a literature review and consequent formulation of research question(s), and initial investigative work on appropriate research methodologies, including data gathering strategies.

- Complete the consideration of the research methodologies to be used, and design of the data collection instruments.

- Complete the development of any customised software tools to be used in investigation or data gathering and analysis.

- Further develop the student's ability to write referenced academic and technical reports, principally a required final dissertation, not less than 6000 words and not more than 12000 words, accompanied by a poster and a video.

- To provide the student with the opportunity (and requirement) to meet with a supervisor week by week and to complete the work according to the initial or a revised plan.

- To enable the student to apply investigative, problem-solving and technical knowledge to address issues as they arise.

Learning Outcomes

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

1. Integrate feedback from Project 1.
2. Complete the process of devising/designing a research methodology.
3. Create the research question(s), using the appropriate tools and methodologies.
4. Reflect on limitations and potential of the chosen methodology and resulting discoveries.
5. Validate the final dissertation, with accompanying video and poster and competently discuss the research area, showing competence in research methods.

Learning and Teaching Methods

- Weekly meetings with project supervisor
- Self-directed learning using library and Internet sources
- Devising ways of testing research methodologies before using them.

Learning Modes

Learning Type	F/T Hours	P/T Hours
Tutorial	6	
Independent Learning	264	

Assessment Methods

	Weighting	Outcomes Assessed
Final Project	100%	1,2,3,4,5

Assessment Criteria

<40%: Failure to incorporate feedback. Failure to competently demonstrate an understanding of research and proceed to an adequate level.

40%–49%: Produces a basic research dissertation with basic documentation complete.

50%–59%: As above and produces a dissertation meeting most of the objectives (unless failure to do so is justified). Documentation and reports are clear and of good quality. Comprehensive knowledge of research area.

60%–69%: As above and requirements fully met in an adequate manner. Demonstration shows evidence of ability to see limitations or potential in approaches used.

70%–100%: As above and produces an excellent, professional calibre stand-alone, robust and thorough piece of research with equally excellent documentation/dissertation. Demonstrates ability to abstract ideas and reflect on the research process.

Supplementary Material(s)

- Bell, J. and C. Opie. *Learning from research: getting more from your data.* Buckingham: Open University Press, 2002.
- Bell, J. and S. Waters. *Doing your research project: A Guide for first time researchers.* Buckingham: Open University Press, McGraw-Hill, 2014.