## H9INTERN: Internship

Module Code:		H9INTERN			
Long Title		Internship APPROVED			
Title		Internship			
Module Level:		LEVEL 9			
EQF Level:		7			
EHEA Level:		Second Cycle			
Credits:		30			
Module Coordinator:		Arghir Moldovan			
Module Author:		Arghir Moldovan			
Departments:		School of Computing			
Specifications of the qualifications and experience required of staff		PhD/Master's degree in a computing or cognate discipline. May have industry experience also.			
Learning Outcomes					
On successful co	ompletion of this modu	le the learner	will be able to:		
#	Learning Outcome	e Description			
L01	Propose a research question, project objectives and methodology.				
LO2	Analyse, synthesise, and critically evaluate the state of the art.		evaluate the state of the art.		
LO3	Propose, architect, implement and evaluate an ICT solution related to the programme area.		evaluate an ICT solution related to the programme area.		
LO4	Investigate potential future research and invention disclosures.				
LO5	Present and defend the research findings through a viva, artefact/product demo, and report.				
LO6	Understand the ethical issues that need to be addressed when conducting research.				
LO7	Demonstrate initiative whilst working alone or part of a team, and appropriate communication and interpersonal skills.				
Dependencies					
Module Recommendations					
No recommendations listed					
Co-requisite Modules					
No Co-requisite modules listed					
Entry requirements		1	Programme entry requirements must be satisfied.		

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Module Content & Assessmen	t						
Indicative Content							
Research Questions and Literature Review and Novel Contribution • Structure and purpose of a literature review • Search tools and sources • Selecting and coping with literature • Identifying novel contribution							
Scientific Methodology, Research Questions and Literature Review <ul> <li>Exploring different research methodologies and assessing the context for these research methodologies</li> <li>Formulating a research question</li> <li>Ethics in research</li> </ul>							
Computing Community and Resources The research community and their major platforms (journals, conferences, etc) • Making use of scientific articles to make informed choices in development							
Computing Practices and Project Management • Planning software development and evaluation • User involvement • Descriptive, theory oriented and applied projects • Time and project management, making efficient use of time and resources to manage multiple tasks at the same time and reach the goals.							
Academic Writing • Proposal structure • Selection and asse	essing the quality of literature						
Academic Writing • Project structure • Citations and referencing							
Academic Writing <ul> <li>Presenting qualitative data</li> <li>Presenting</li> </ul>	g quantitative data						
Academic Writing • The importance of ethics and reproduce	Academic Writing     The importance of ethics and reproducibility in research						
Academic Writing • Scientific writing and style consideration	Academic Writing     Scientific writing and style considerations • Plagiarism						
Technical Information • Reading, understanding and summarising technical material, including source code, academic articles, patents, and documentation • Writing effective technical documentation and materials							
Ethics • Ethics considerations around human pa	articipants, secondary datasets • Eth	ics approval process					
Communication • Dynamics of oral, written, and electroni	ic team and group communication						
Assessment Breakdown			%				
Coursework			100.00%				
Assessments			·				
Full Time							
Coursework							
Assessment Type:	Formative Assessment	% of total:	Non-Marked				
Assessment Date:	n/a	Outcome addressed:	1,2,3,4,5,6,7				
Non-Marked:	Yes						
Assessment Description: Formative assessment will be provided on the in-class individual or group activities. Feedback will be provided in written or oral format, or on-line through Moodle. In addition, in class discussions will be undertaken as part of the practical approach to learning.							
Assessment Type:	Project	% of total:	100				
Assessment Date:	n/a	Outcome addressed:	1,2,3,4,5,6,7				
Non-Marked:	No						
Assessment Description: Project Proposal and Ethics Approval (10%); Project Specification and Objectives (5%); Literature Review (10%); Artefact/Product Development (30%); Artefact/Product Evaluation and Analysis (25%); Document Presentation/Structure, Referencing, and Configuration Manual (10%); Weekly Activity Report (5%); Viva (5%);							
No End of Module Assessment							
No Workplace Assessment							
Reassessment Requirement							
Coursework Only This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.							
Pagesement Description							

Reassessment Description The repeat strategy for this module is by a project that covers all learning outcomes.

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Module Workload					
Module Target Workload Hours	s 0 Hours				
Workload: Full Time					
Workload Type	Workload Description	Hou	rs Frequency	Average Weekly Learner Workload	
Lecture	Classroom and demonstrations	1	2 Per Semester	1.00	
Tutorial	Mentoring and small-group tutoring	3	6 Per Semester	3.00	
Independent Learning	Independent learning	36	6 Per Semester	30.50	
Workbased learning	Work-based learning	33	6 Per Semester	28.00	
		Total Weekly	Contact Hours	32.00	
Workload: Blended					
Workload Type	Workload Description	Hou	rs Frequency	Average Weekly Learner Workload	
Lecture	Classroom and demonstrations	1	2 Per Semester	1.00	
Tutorial	Mentoring and small-group tutoring	2	4 Per Semester	2.00	
Directed Learning	Directed e-learning	1	2 Per Semester	1.00	
Independent Learning	Independent learning	36	6 Per Semester	30.50	
Workbased learning	Work-based learning	33	6 Per Semester	28.00	
	Total Weekly Contact Hou				
Workload: Part Time					
Workload Type	Workload Description	Hou	rs Frequency	Average Weekly Learner Workload	
Lecture	Classroom and demonstrations	1	2 Per Semester	1.00	
Tutorial	Mentoring and small-group tutoring	3	6 Per Semester	3.00	
Independent Learning	Independent learning	36	6 Per Semester	30.50	
Workbased learning	Work base	33	6 Per Semester	28.00	
	·	Total Weekly	Contact Hours	32.00	

Module Resources						
Recommended Book Resources						
John W. Creswell, J. David Creswell. (2022), Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, 6th Ed. Sage Publications, Incorporated, [ISBN: 978-1071817940].						
Justin Zobel. (2015), Writing for Computer Science, 3rd Edition. Springer, [ISBN: 978-1447166382].						
Christian Dawson. (2015), Projects in Computing and Information Systems: A Student's Guide, 3rd Edition. Pearson, [ISBN: 978-1292073460].						
Supplementary Book Resources						
Gary Thomas. (2017), How to Do Your Research Project: A Guide for Students, 3rd Edition. SAGE Publications Limited, [ISBN: 978-1473948860].						
Justin Kitzes, Daniel Turek, Fatma Deniz. (2017), The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences, Univ of California Press, p.364, [ISBN: 978-0520294745].						
David Evans, Paul Gruba, Justin Zobel. (2014), How to Write a Better Thesis, 3rd Edition. Springer, p.167, [ISBN: 978-3319042855].						
Diana Ridley. (2012), The Literature Review: A Step-by-Step Guide for Students, 2nd Edition. SAGE Publications, p.233, [ISBN: 978-1446201435].						
This module does not have any article/paper resources						
Other Resources						
[Website], Intellectual Property Office of Ireland, https://www.ipoi.gov.ie/en/						
[Website], European Patent Office, http://www.epo.org/searching/free/espace net.html						
[Website], Prof Alan Bundy. How to Write an Informatics Paper, University of Edinburgh, https://sweb.inf.ed.ac.uk/bundy/how-tos/ writingGuide.html						
Discussion Note:						