# H9RPROJ: Research Project

Module Code: H9RPROJ					
Long Title	Research	Research Project SUPERSEDED			
Title	Research	Research Project			
Module Level:	LEVEL 9	LEVEL 9			
EQF Level: 7		7			
EHEA Level:		Second Cycle			
Credits:		25			
Module Coordinator:	Christos	Christos Grecos			
Module Author:	Christos	Christos Grecos			
Departments:	School o	School of Computing			
Specifications of the qualifier and experience required of a		PhD/Master's degree in a computing or cognate discipline.			
Learning Outcomes					
On successful completion of this module the learner will be able to:					
# Learning O	ng Outcome Description				
LO1 Analyse, sel	ect and implement	and implement appropriate research methods and techniques			
LO2 Research ar	earch and critically analyse the state of the art of a problem domain				
LO3 Propose, are	ppose, architect and implement an ICT solution related to the programme area				
LO4 Evaluate the	Evaluate the solution based on identified measures				
LO5 Investigate	vestigate potential future research possibilities				
LO6 Present and	d defend the research findings through a viva, artefact/product demo and research paper style report.				
Dependencies					
Module Recommendations					
No recommendations listed					
Co-requisite Modules					
No Co-requisite modules listed					
Entry requirements A level 8 de		A level 8 degree or its equivalent in any discipline			

## H9RPROJ: Research Project

### Module Content & Assessment

### Indicative Content

Literature Review

The literature review should demonstrate evidence of independent research critically analysing the potential of an application / idea and provide insights into how it can be implemented and evaluated. This is built upon the work conducted in Semester 2 as part of Research in Computing module and may have to be updated and revised based on feedback from supervisors and based on the final developed product. **Project Specifications** The project specifications describe the research background that includes the research question and definition of research variables Solution Development Learners develop a solution that addresses the research question. This may involve the development of an application prototype, the design of an algorithm, the implementation of an innovative service or component of a system. **Evaluation and Analysis** A comprehensive evaluation must be conducted by each learner using multiple strategies, example; an algorithm may be benchmarked by performance specific metrics whilst an internet application or mobile application may be evaluated using suitable usability testing techniques. Statistical tools should be used to critically evaluate, assess and analyse the experimental research outputs and levels of significance. **Conclusion and Future Work** Learners must arrive at a conclusion from their research question as defined within the position paper. A detailed future work section must be included showing the learners understanding of their own research conducted Viva The viva shall involve a presentation of the research work carried out and a demonstration of the final results to at least two academic examiners. A demo of the developed artefact/product will be required during the Viva.

## Assessment Breakdown % Coursework 100.00%

#### Assessments

Full Time					
Coursework					
Assessment Type:	Written Report	% of total:	90		
Assessment Date:	n/a	Outcome addressed:	1,2,3,4,5		
Non-Marked:	No				
marked based on the written rep	ort for the research project using the follo	to 20 pages, and describes the individual researd wing schema: Literature review 10%, Project sp Structure and Referencing 10%, User configuration	ecification 10%, Artefact/ Project Develo		
Assessment Type:	Project	% of total:	10		
Assessment Date:	n/a	Outcome addressed:	6		
Non-Marked:	No				
Assessment Description: Learners will have to defend the must attend the viva.	ir individual research in front of examiners	s. A demo of the artefact/product developed will I	be rquired to be presented in the viva. The	ne learner	
No End of Module Assessment					
No Workplace Assessment					
Reassessment Requirement					

# H9RPROJ: Research Project

Module Workload									
Module Target Workload Hours 0 Hours									
Workload: Full Time									
Workload Type	Workload Description		Hours	Frequency	Average Weekly Learner Workload				
Lecturer Supervised Learning	circa 1 hour per week		1	Every Week	1.00				
Independent Learning Time	No Description		51	Every Week	51.00				
Total Weekly Contact Hours					1.00				
Workload: Part Time									
Workload Type	Workload Description		Hours	Frequency	Average Weekly Learner Workload				
Lecturer Supervised Learning	circa 1 hour per week		1	Once per semester	0.08				
Independent Learning Time	No Description		49	Once per semester	4.08				
Total Weekly Contact Hou					s 0.08				

Module Resources					
Recommended Book Resources					
Zobel, J (2004), Writing for computer science, 2nd Edition. Springer, Berlin.					
Berndtsson, M (2008), Thesis projects: a guide for learners in computer science and information systems, Springer, London.					
This module does not have any article/paper resources					
Other Resources					
[journal], IEEE Transactions on Communications, IEEE, http://host.comsoc.org/transcom/home.htm I					
[journal], IEEE Transactions on Mobile Computing, http://ieeexplore.ieee.org/xpl/Recentlss ue.jsp?punumber=7755					
[website], Prof Alan Bundy, University of Edinburgh. How to Write an Informatics Paper, http://homepages.inf.ed.ac.uk/bundy/how- tos/writingGuide.html					
Discussion Note:					