

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No Co-requisite modules listed

No requirements listed

COMP H2218: Software Engineering for Games 1

	XX	University			
Module Title:		Software Engineering for Games 1			
Language of Instruction:		English			
Credits: 10					
NFQ Level: 6					
Module Delivered In		No Programmes			
Teaching & Learning Strategies:		Lectures, tutorials and practicals on specific techniques, continuous assessment, final exam;			
Module Air	m:	To equip the learners with the ability to employ object oriented design and methodologies within a software process as used in the games industry.			
Learning C	Outcomes				
On success	sful completion of t	his module the learner should be able to:			
LO1	Apply a suitable	software development process.			
LO2	Use tools for so	ftware development within an agile context.			
LO3	Employ object of	priented software engineering principles, concepts and techniques on new and existing projects.			
LO4	Produce object oriented design documents.				
Pre-requis	ite learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisi	Co-requisite Modules				



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Module Content & Assessment

Indicative Content

Object Oriented Software Engineering for Games Development

Need for, issues, software development process models, evolutionary software development (e.g. the Unified Process), agility, modern object oriented concepts (e.g. interfaces)

Software Requirements Analysis

Analysis modeling (e.g. vision document, use cases, supplementary specification), object oriented domain modeling, notations (e.g. UML) and tools

Software Design

Object oriented design concepts and principles, logical architecture, fundamental design patterns, notations (e.g. UML) and tools

CodingCode generation from design

Advanced Design Patterns: GoF patterns, MVC pattern

Assessment Breakdown	%
Continuous Assessment	20.00%
Project	20.00%
End of Module Formal Examination	60.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Class test	3	5.00	Week 7
Case Studies	Active participation	1,2,3,4	5.00	n/a
Case Studies	Development of an individual Object Oriented Analysis and Design for a simple game in two iterations lasting 12 weeks	1,2,3,4	10.00	Week 9

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Full time joint project for 3 weeks combined with the other modules during which the students have to produce the artefacts relevant to the development of a game in group.	1,2,3,4	20.00	Week 22

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	No Description	1,3,4	60.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	30 Weeks per Stage	2.00		
Laboratory	30 Weeks per Stage	1.00		
Estimated Learner Hours	30 Weeks per Stage	3.00		
Tutorial	30 Weeks per Stage	1.00		
	Total Hours	210.00		