

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

No requirements listed

ENGR: Software Engineering for Games

University					
Module Title) :	Software Engineering for Games			
Language of Instruction:		English			
Credits:	5				
NFQ Level:	6				
Module Deli	vered In	1 programme(s)			
Teaching & Strategies:	Learning	Lectures, tutorials and practicals on specific techniques, continuous assessment, final exam;			
Module Aim:		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 Ou	ıtcomes				
On successf	ul completion of t	his module the learner should be able to:			
LO1	Discover object	oriented domain models from requirements			
LO2	Employ object oriented software engineering principles and techniques to produce robust software architectures				
LO3	3 Communicate object oriented designs				
Pre-requisite 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-requisite Modules					
No Co-requisite modules listed					

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Module Content & Assessment

Indicative Content

Software Requirements Analysis
Analysis modeling, object oriented domain modeling, notations (e.g. UML) and tools

Software DesignObject oriented design concepts and principles, logical architecture, fundamental design patterns.

Object oriented software design SOLID principles, DRY, Demeter, cohesion & coupling

Design Patterns:Some GoF patterns, MVC pattern, patterns applicable to games

Assessment Breakdown	%
Continuous Assessment	15.00%
Project	20.00%
Practical	25.00%
End of Module Formal Examination	40.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Class test	2	5.00	Week 7
Examination	n/a	1,3	10.00	n/a

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Collaborative project to produce artefacts relevant to the development of a game.	1,2,3	20.00	Week 22

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	A series of lab sessions supported by worksheets to gain skills in prototyping tools, need finding and evaluation	1,2,3	25.00	Every Second Week

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	No Description	1,2,3	40.00	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	12 Weeks per Stage	2.00		
Laboratory	12 Weeks per Stage	1.00		
Tutorial	12 Weeks per Stage	1.00		
Estimated Learner Hours	15 Weeks per Stage	5.13		
	Total Hours	125.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCCGD_B	Bachelor of Science (Honours) in Computer Games Development	4	Mandatory