

RequirementsThis 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

GAME H3202: Developing for Games Devices

-	XX	Technological University			
Module Title:		Developing for Games Devices			
Language of Instruction:		English			
Credits: 5					
NFQ Level:	7				
Module Delivered In		No Programmes			
Teaching & Learning Strategies:		The course material is delivered in a studio environment in which students are given lectures, including guest lecturers from industry, interactive labs, and practical exercises. In tandem, students design and develop a single player game for mobile/web and then develop a multiplayer mode for this game.			
Module Aim:		Design and develop games for mobile and web platforms.			
Learning Outcomes					
On successful complete	on of th	his module the learner should be able to:			
LO1 Design a	Design and implement 2D mobile and web games				
LO2 Design a	Design and implement networked games for mobile and web				
LO3 Deploy a	Deploy and test games on mobile and web				
LO4 Submit a	game	to an app store			
Pre-requisite learning					
Module Recommenda This is prior learning (o		ctical skill) that is recommended before enrolment in this module.			
No recommendations listed					
Incompatible Modules These are modules wh		re learning outcomes that are too similar to the learning outcomes of this module.			
No incompatible modules listed					
Co-requisite Modules					

GAME H3202: Developing for Games Devices

Module Content & Assessment

Indicative Content

Development environment

Introduction to tools for development, debugging, source control, project management; coding standard

Basic animation and graphics
Game design, game loop, rendering primitives, game input (keyboard, mouse), movement, collision detection, particle systems

User interface UI/UX, managing game states

Sprite animation and audioSprite animation, asset manager, loading files, sprite sheets, texture packing, sound effects, background music

Deployment, debugging, game input (touch), audio, loading metadata, persistence of game data, integrating sub-systems, game balance, playtesting

Multiplayer games

Sockets, serialisation, message based systems, player management, session management, cloud hosting, server deployment

Store submissionSubmission process, asset preparation, distribution build, testing distribution build

Assessment Breakdown	%
Continuous Assessment	40.00%
Project	60.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Class test	1,2,3,4	10.00	n/a
Other	Learning Resource 1	1,2,3	10.00	n/a
Other	Learning Resource 2	1,2,3	10.00	n/a
Practical/Skills Evaluation	Labs	1,2,3	10.00	n/a

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Project 1	1,3	30.00	Sem 1 End
Project	Project 2	1,2,3,4	30.00	Sem 2 End

No End of Module Formal Examination

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



GAME H3202: Developing for Games Devices

Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Laboratory	20 Weeks per Stage	4.00
Estimated Learner Hours	20 Weeks per Stage	1.00
	Total Hours	100.00