

ENVI C4G01: The Virtual Environment 1

University					
Module Title:		The Virtual Environment 1			
Language of Instruction:		English			
Credits:	5				
NFQ Level:	8				
Module Deliv	vered In	1 programme(s)			
Teaching & I Strategies:	Learning	Lectures Tutorials Private study Practical sessions within a laboratory			
Module Aim:		To give the student the theoretical knowledge and practical understanding of the application of visual effects pipeline and rendering in using relevant software. The aims of the subject are: (1) to develop a greater knowledge of the principles and practice of project management, general management and health and safety; (2) to develop a knowledge of and understanding of the management of the human resource; (3) to develop leadership, business development, management and negotiation skills; (4) to develop an entrepreneurial spirit			
Learning Ou	tcomes				
On successfu	I completion of t	his module the learner should be able to:			
LO1					
LO2	Understand Un	realEngine pipeline, components and development environment			
LO3	LO3 Implement 3D Set Design in a virtual environment				
LO4 Demonstrate an understanding of project management and the management of other resources in a construction environment		n understanding of project management and the management of other resources in a construction			
LO5	Apply current management techniques in project management and safety management in a construction environment, manage and negotiate materials and plant resources for a construction project using modern techniques				
Pre-requisite learning					
<i>Module Recommendations</i> 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					
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.					

No requirements listed



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Module Content & Assessment

Indicative Content

(1) Introduction

Introduction to Visual Effects and the virtual world

(2) Unreal Engine Components Virtual world User Interface , Asset Workflow, Components

(3) Realtime Rendering Camera Rigging, Lighting, Video Export

(4) Project Management (a) Project management Code of Practice and PMBoK (b) Project Management Plan and Production workflows (c) Project Procurement Methods (d) Project Lifecycle, (e) Scope Management (f) Time Management (g) Cost Management (h) Uncertainty and risk management (i) Change management (j) Quality management

(5) Supply Chain, Materials and Plant Management (a) Purchasing strategies and systems (b) Negotiation (c) Plant management (d) Supply Chain Management

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

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Case Studies	2 x Continuous Assessment Case Studies	4,5	20.00	n/a	

Project					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Project	Construct a virtual set	1,2,3	20.00	n/a	

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Lab practical's in using relevant software and platforms	1,2,3	20.00	n/a	

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	No Description	1,2,3,4,5	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	Every Week	1.00		
Tutorial	Every Week	2.00		
Estimated Learner Hours	Every Week	4.00		
	Total Hours	7.00		

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_CGSDC_B	Bachelor of Science (Honours) in Set Design and Construction	7	Mandatory	