

#### **MODULE SPECIFICATION PROFORMA**

Module Code:	COM458							
Module Title:	Game Design & Interaction							
Level:	4	Credit Value:		20				
Cost Centre(s):	GACP	JACS3 code: HECoS code:		I620 101268				
Faculty:	Arts, Science and Technology		Module Leader:	Richard Hebblewhit				
Scheduled learning and teaching hours			36 hrs					
Guided independent study			164 hrs					
Placement			0 hrs					
Module duration (total hours)			200 hrs					
Programme(s) in which to be offered (not including exit awards)					Core	Option		
BSc (Hons) Computer Game Development								
BSc (Hons) Computer Game Design and Enterprise								
BSc (Hons) Computer Game Development (with Industrial Placement)								
BSc (Hons) Computer Game Design and Enterprise (with Industrial Placement)					<b>✓</b>			
BA (Hons) Game	e Art			✓				
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Pre-requisites								
N/A								

Office use only

Initial approval: 28/11/2018 Version no:1

With effect from: 01/09/2019

Date and details of revision: 12/04/19 APSC approved change to module title 
Version no:2

and programme list to include BA (Hons) Game Art

#### **Module Aims**

This module aims to introduce practical experience in working with industry standard game and media development environments as part of a small professional team. Students will develop an awareness of the agile management processes required in small size games and media projects, as well as a practical application of the media production cycle.

The module will also develop an appreciation the key technical elements of real time game engine technology and their practical implications, along with an introduction to the fundamentals of game design and its impact on technology.

### **Intended Learning Outcomes** Key skills for employability KS1 Written, oral and media communication skills KS2 Leadership, team working and networking skills KS3 Opportunity, creativity and problem solving skills KS4 Information technology skills and digital literacy KS5 Information management skills KS6 Research skills Intercultural and sustainability skills KS7 KS8 Career management skills KS9 Learning to learn (managing personal and professional development, selfmanagement) KS10 Numeracy At the end of this module, students will be able to Key Skills KS2 KS3 1 Manage and implement a small scale game or media project. KS6 KS1 Demonstrate an understanding of the fundamental principles and practices related to game design and the impact of design decisions within a development project... KS5 KS10 Engage with industry standard development environments KS4 and tools in the development of a small game or media project Transferable skills and other attributes

# **Derogations**

N/A

#### Assessment:

**Indicative Assessment Tasks:** 

The first assignment will ask students to develop a case study based on a modern game title where the focus will be on the analysis of game design choices and impact on player experience and sales performance. Some consideration for game mechanics, difficulty and challenge and general fitness for purpose should be given.

The second assignment will focus on the development of a prototype game application as part of a small team. The students will work to professional procedures and production methodology standards. The project will incorporate design documentation, technical documentation and art style guidelines.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,3	Coursework	50		2000
2	2,1	Group Project	50		2000

# **Learning and Teaching Strategies:**

The primary skill base of this module will be delivered through a series of lectures, demonstrations and studio workshops which will equip the students with the practical means to develop small scale games and media products.

The primary teaching will revolve around the development of a central game product in small teams. This product will then be readied for deployment on the Android, Apple or Steam platforms. The students will be expected to develop an appreciation for the use of such hardware (such as tablets and smart phones) aswell as underpin their development process with a recognized methodology such as SCRUM.

Students will also research best modern industry practice in relation to the design and deployment of popular products.

#### Syllabus outline:

Syllabus includes topic areas that include:

Agile development methodologies – SCRUM (overview)

Team based development.

Effective brainstorming, rapid application design and conceptualization.

Media production cycle.

Research, design and planning.

Game and media design principles.

Testing and quality assurance.

Development cycle and testing for smart phones and tablets.

Game engine architecture and rendering.

Industry standard development environments and tools such as: - Fusion Developer, Unreal Engine 4, JIRA & Agile Management

# **Indicative Bibliography:**

### **Essential reading**

Macklin, C. (2016) Games, Design and Play: A Detailed Approach to Iterative Game Design. Addison-Wesley Professional.

# Other indicative reading

Schreier, J. (2017) Blood, Sweat, and Pixels: The Triumphant, Turbulent Stories Behind How Video Games Are Made. Harper Paperbacks.

Schell, J. (2014) The Art of Game Design: A Book of Lenses. A K Peters/CRC Press.

Nixon, D. (2017) Unreal Engine 4 for Beginners. Luquinox

# Useful Resources:

http://www.GamaSutra.com http://www.gamesindustry.biz