

MODULE SPECIFICATION

Part 1: Information						
Module Title	Introduction to Creative Coc	oduction to Creative Coding				
Module Code	UFCF8L-30-1	Level	Level 4			
For implementation from	2018-19	-19				
UWE Credit Rating	30	ECTS Credit Rating	15			
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies			
Department	FET Dept of Computer Sci a	FET Dept of Computer Sci & Creative Tech				
Contributes towards	Digital Media [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Digital Media [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19 Digital Media [Sep][FT][SHAPE][3yrs] BSc (Hons) 2018-19 Digital Media [Aug][PT][SHAPE][6yrs] BSc (Hons) 2018-19					
Module type:	Standard					
Pre-requisites None						
Excluded Combinations	None	None				
Co- requisites	None	None				
Module Entry requireme	nts None	None				

Part 2: Description

Educational Aims: This module will enable students to develop key creative and technical skills.

Outline Syllabus: Indicative areas of study will include:

Introduction to creative computer programming Creative applications programming environments, differences between languages like Java/Javascript (Processing) and C/C++ (OpenFrameworks/Cinder) Basic drawing functions Introduction to animation Data types/ iteration (for and while)/ selection (if and switch) /functions Introduction to object-oriented programming using particle systems Classes, objects, and data-encapsulation Algorithmic particle generation and control Introduction to creating Graphical User Interfaces Audio generation fundamentals Audio Reactivity Introduction to Creating with Data Introduction to embedded creative computing

Teaching and Learning Methods: Developing software using open source and freely available frameworks, students will develop creative practices such as visual design, animation and basic interactivity. This will be balanced with the technical practices that enable them to produce these creative outputs. These skills lie at the core of the industries that graduates will work within.

Part 3: Assessment

The assessment strategy in this module is based upon the module information covered in lectures, seminars, tutorial sessions and student's self-directed research.

Summative Assessment: Projects are evaluated on subject specific criteria clearly stated on each project brief at the outset of each project. Students will submit: A presentation on a generative drawing method or research approach from a prescribed list. (Component A)

A 2D generative drawing program that creates graphics based on code-driven drawing techniques (Component B1)

A functional, reactive algorithmic audio-visual application working in 2D or 3D and linking with sound generation (Component B2)

Formative Assessment: A mix of individual, peer-to-peer and group tutorials will be provided.

Feedback: Feedback will be given oral and written feedback through discussions in class, tutorials, written feedback on assignments and comments on students' research blogs.

Plagiarism: All submissions will checked using the university plagiarism software

First Sit Components	Final Assessment	Element weighting	Description
Project - Component B		30 %	Generative drawing project
Project - Component B		45 %	Creative audio-visual application project
Presentation - Component A	\checkmark	25 %	Formal presentation (15 minutes)
Resit Components	Final Assessment	Element weighting	Description
Project - Component B		30 %	Generative drawing project
Project - Component B		45 %	Creative audi-visual appliction project
Presentation - Component A	~	25 %	Video presentation (about 15 minutes)

		Part 4: Teaching and Learning Methods				
Learning Outcomes	On successful completion of this module students will be able to:					
		Module Learning Outcomes				
	MO1					
			uses of both C++ and java based programming environments			
	within the creative applications context					
	MO2		Research contemporary digital artworks and online resources to aid creative and technical development			
	MO3	Develop small-scale reactive audio-visual programs that apply understanding of the foundations of both technical and creative approaches				
	MO4	Understand and use the basic programming constructs and Isolate and fix common errors in custom programs.				
	MO5		Manipulate various datatypes, such as arrays, strings, and			
	MO6	Apply object-oriented approaches to c	creative software problems			
Contact Hours	Contact Hours Independent Stud	dy Hours:				
	Independ	204				
		Total Independent Study Hours:	204			
	Scheduled Learning and Teaching Hours:					
	Face-to-fa	96				
	Total Scheduled Learning and Teaching Hours:		96			
	Hours to be alloc	ated	300			
	Allocated Hours	300				
Reading	The reading list for	this module can be accessed via the following link:				
List	https://uwe.rl.talis.com/modules/ufcf8I-30-1.html					