

## **MODULE SPECIFICATION**

Part 1: Information							
Module Title	Information Systems Development						
Module Code	UFCFGC-15-3	Level	Level 6				
For implementation from	2018-19						
UWE Credit Rating	15	ECTS Credit Rating	7.5				
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies				
Department	FET Dept of Computer Sci & Creative Tech						
Contributes towards							
Module type:	Standard						
Pre-requisites	None	None					
Excluded Combinations	None	None					
Co- requisites	None	None					
Module Entry requireme	nts None	None					

## Part 2: Description

Educational Aims: See Learning Outcomes

**Outline Syllabus:** A review of contemporary approaches to systems development and its methods, tools and practices. Frameworks for evaluating methodologies and choosing between them.

The architecture of dynamic web-based (Model-View-Controller) applications and their underlying standards tools and technologies e.g.: RDBMS, SQL, PHP, XHTML, XML, XSLT, XMLSchema.

The components, tools and architectures of complex web-based and workflow systems; business process modelling and enactment; business process management.

Critical evaluation of the forces which shape the development process: organisational structure, technological possibilities, designer knowledge and presumptions, development under constraints.

## STUDENT AND ACADEMIC SERVICES

The architecture of web based applications. Formulating problem specifications. Modelling and description of systems and applications. Methodologies, tools and techniques for the development of web based systems. The application of frames and patterns to systems development.

Teaching and Learning Methods: Contact time: 36 hours

Assimilation and development of knowledge: 69 hours

Exam preparation: 30 hours

Coursework preparation: 15 hours

Total study time: 150 hours

A mixture of readings, lectures and case studies will be used. There will be a significant practical element to the module and students will be expected to analyse, design and implement examples of web-based information systems using a variety of technologies.

## Part 3: Assessment

The module is assessed by a 3 hour examination at the end of the teaching and also by coursework. The exam assesses the students' understanding of the theoretical aspects of the module. The coursework allows the student to demonstrate practical application of methodology, tools and techniques.

First Sit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component B		25 %	Individual assignment developing a web based application
Examination - Component A	<b>✓</b>	75 %	Exam
Resit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component B		25 %	Individual assignment developing a web based application
Examination - Component A	✓	75 %	

	Part 4: Tea	aching and Learning Methods					
Learning Outcomes	On successful completion of this module students will be able to:						
	Module Learning Outcomes						
	MO1 Explain and evaluate the architecture of web based applications						
	MO2						
	MO3	Analyse and model information systems and applications effectively using patterns, frameworks and constraints					
	MO4	Analyse requirements and specify and design software to meet user needs with consideration of usability issues					
	MO5 Develop web based applications for a given architecture using appropriate methodologies, tools and techniques						
Contact Hours	Contact Hours						
	Independent Study Hours:						
	Independent study/self	114					
		Total Independent Study Hours:	114				
	Scheduled Learning and Teaching Hours:						
	Face-to-face learning	36					
	Total Sched	36					
	Hours to be allocated	150					
	Allocated Hours	150					
Reading List	The reading list for this module continuous.htm	an be accessed via the following link:	<u>l</u>				