STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	Mobile Applications		
Module Code	UFCF7H-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	Information Technology [Sep][FT][Frenchay][1yr] BSc (Hons) 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: See Learning Outcomes.

Outline Syllabus: The syllabus includes:

Introduction:
Historical overview of mobile device technologies. The current mobile application marketplace
and its impact on mobile application development. Convergence of the web and mobile
technologies. Differences between desktop and mobile applications; designing for context. Mobile
strategies and types of mobile applications. Mobile information architecture and design.

Mobile platforms and the development process:
Features of mobile platforms and devices, advantages and limitations. The mobile software
development process. Application development methodology for mobile apps. Commercial
licensing frameworks.

Design:
Mobile application design; application model and infrastructure; hardware and software architecture; managing resources; development workflow. Interaction design.

Interface technologies provided by modern mobile devices. Implementation features that can be applied to mobile device applications. Adapting to devices; progressive enhancement, device detection, full adaptation. Opportunities provided through GPS, orientation sensors and networking.

Security:
Security issues and secure design for mobile applications.

The Future:
Innovations in the mobile market. Emerging trends.

Teaching and Learning Methods: Students will learn through a combination of lectures, tutorials and practical activities in a digital media studio. Students will be expected to learn independently and carry out reading and directed study beyond that available within taught classes.

Contact Hours:

Activity:
Contact time: 36 hours
Assimilation and development of knowledge: 74 hours
Exam preparation: 10 hours
Coursework preparation: 30 hours
Total study time: 150 hours

Part 3: Assessment

The assignment for this module will be designed to consolidate the students' knowledge and practical skills in relation to the learning outcomes and to provide independent learning and problem solving.

The assignment will be a software development task using tools and applications associated with the mobile development pipeline. Typical student assignment time allocation between 15 and 20 hours.

The written unseen exam will provide an opportunity to test application of knowledge and more generic technical and commercial aspects of mobile application development.

Assessment criteria will be established against learning outcomes and objectives provided in the assignment specification.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		50 %	Assignment with supporting documentation
Examination - Component A	✓	50 %	Written unseen exam
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		50 %	Assignment with supporting documentation
Examination - Component A	✓	50 %	Written unseen exam

Part 4: Teaching and Learning Methods		3
Learning Outcomes	On successful completion of this module students will be able to:	

	Module Learning Outcomes
MO1	Analyse and critically evaluate mobile platform technologies for the development of mobile apps
MO2	Interpret user expectations and apply these in the context of mobile applications
MO3	Design, develop, test and document a working application for a mobile device.
MO4	Consider current and emerging trends in mobile device technology and have regard to commercial licensing frameworks for mobile development.

Contact Hours	**Contact Hours**	
	Independent Study Hours:	
	Independent study/self-guided study	114
	Total Independent Study Hours:	114
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	36
	Total Scheduled Learning and Teaching Hours:	36
	Hours to be allocated	150
	Allocated Hours	150
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/modules/ufcf7h-15-3.html	