

MODULE DESCRIPTOR

Module Title

Mobile App Development				
Reference	CM3110	Version	3	
Created	June 2022	SCQF Level	SCQF 9	
Approved	August 2017	SCQF Points	15	
Amended	July 2022	ECTS Points	7.5	

Aims of Module

To enable the students to develop well designed and accessible mobile applications making use of appropriate design tools and methods.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Describe how mobile devices can work with fixed network computers in implementing various types of application.
- 2 Select and make effective use of software tools to implement, simulate and test applications for mobile phones and other resource constrained computing devices.
- ³ Design and develop effective mobile computing applications based on a considered choice of system architecture and integrating appropriate software tools and technologies.

Indicative Module Content

Mobile app development, paper prototyping, mobile design, data persistence, UI metaphors, web services, JSON/XML, mobile accessibility and evaluation.

Module Delivery

Key concepts are introduced and illustrated through briefings which precede each lab session. In the lab sessions the students will learn practical aspects of mobile programming using a modern integrated development environment.

Indicative Student Workload	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3
Description:	A coursework normally typically consisting of designing, development and testing of a mobile application.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 100% weighing of C1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	The student needs to achieve an A in C1
В	The student needs to achieve a B in C1
С	The student needs to achieve a C in C1
D	The student needs to achieve a D in C1
E	The student needs to achieve an E in C1
F	The student needs to achieve an F in C1
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements	
Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 Wallace Jackson, Android Apps for Absolute Beginners, Apress, Berkeley, CA 2017
- 2 Sp?th, Peter ; Friesen, Jeff Learn Java for Android Development: Migrating Java SE Programming Skills to Mobile Development. Springer 2020
- 3 PHILLIPS, B. and STEWART, C., 2017. Android Programming: The Big Nerd Ranch Guide. Big Nerd Ranch Guides.
- 4 Ted Hagos, Learn Android Studio 3. Efficient Android App Development. Apress, Berkeley, CA. 2018