

Module Code	Pre-requisite Module codes	Co-Requisite Modules code(s)	ISCED Code	Subject Code	ECTS Credits	NFQ Level (CPD)#
TBD	CMPU2029				10	7
Module Title	Mobile Software Development					

Mobile Software Development

School Responsible:	School of Computing
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Module Overview:

This module covers the knowledge and practical skills to design and implement basic mobile phone applications, in a specific mobile development environment. In order to set mobile software development in context, it also covers background mobile communication technologies such as GSM, GPRS, EDGE, 3G, Bluetooth, and examines leading mobile development platforms and typical mobile data applications.

The aim of this module is to enable the learner to develop mobile phone applications in a leading mobile phone development platform, whilst also providing an understanding of relevant mobile phone technologies in order to set the application development in context.

Learning Outcomes (LO):

On Completion of this module, the learner will be able to

1	Develop mobile phone applications in a leading mobile development platform;
2	Understand and apply good design guidelines for mobile application development;
3	Discuss and compare the leading mobile development platforms such as but not limited to: Android, Qt, Windows Mobile, and iOS (Apple);
4	Discuss and compare the mobile phone communication technologies such as, but not limited to: GSM, GPRS, EDGE, 3G, Bluetooth;

Indicative Syllabus:

Technologies for mobile software development have and continue to develop and change rapidly. Therefore, no specific mobile platform is prescribed. The content is described generically, and will be covered for the particular platform used when the module is taught:

Mobile phone development: typical applications, technologies, usage;

Mobile communications technologies: local (e.g. Bluetooth) and network technologies (e.g. GSM, 3G);

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Use of the relevant IDE for application development;

Mobile GUI components such as widgets, containers, menus;

Mobile GUI Layouts;

Mobile communications via the Internet;

Using persistent data with mobile applications;

Design consideration for mobile application development.

Learning and Teaching Methods:

The course delivery involves a combination of lectures and labs which may incorporate the use of blended learning techniques as appropriate throughout the delivery.

Total Teaching Contact Hours	39
Total Self-Directed Learning Hours	148

Module Delivery Duration:

This module is delivered over one semester

Assessment

Assessment Type	Weighting (%)	LO Assessment (No.)
Final Exam	50%	3,4
Continuous Assessment	50%	1,2
Module Specific Assessment Arrangements (if applicable)		
(a) Derogations from General Assessment Regulations		
(b) Module Assessment Thresholds		
(c) Special Repeat Assessment Arrangements		

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Essential Reading: (author, date, title, publisher)

This will be prescribed by the lecturer at the beginning of the module as it will be specific to the mobile platform used.

Version No:		Amended By	
Commencement Date		Associated Programme Codes	

Modules that are to be offered as Stand-Alone CPD Programmes must have an NFQ level assigned

*Details of the assessment schedule should be contained in the student handbook for the programme stage.

Date of Academic Council approval

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