	Reference CM3019
	SCQF LevelSCQF 9
Module little	SCQF Points 15
Programming Mobile Devices	ECTS Points 7.5
	Created May 2003
Keywords	ApprovedApril 2005
programming resource constrained devices	Amended
	2011
	Version No. 4

# This Version is No Longer Current

The latest version of this module is available here

#### Prerequisites for Module

#### CM2015 Object Oriented **Full Time** Contact Hours Software Design or equivalent Assessment 20 Laboratories 20 **Corequisite Modules** 20 Lectures None. Directed Study **Directed Study** 40 **Precluded Modules** Private Study None. **Private Study** 50

# Aims of Module

To enable the student to develop effective mobile computing applications using appropriate software tools.

# Learning Outcomes for Module

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

# **Mode of Delivery**

Key concepts are introduced and illustrated through lectures. Practical skills are devloped through a series of laboratory assignments which develop the student's problem solving skills and illustrate the practical application of the lecture content.

**Indicative Student Workload** 

### **Assessment Plan**

- 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/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**

The module will focus on developing competence in the Java programming language for developing mobile applications under the Android operating system. Key topics will include: application fundamentals; application components i.e activities, services, content providers, broadcast receivers; component activation by intent; user interface design (UI) and implementation: declaring layouts and handling UI events; data storage on the mobile device; communication via the internet.

	Learning Outcomes	
	Assessed	
Component 1	1,2,3	

Component 1 - Coursework

## **Indicative Bibliography**

1.ANNUZZI J., DARCY L., CONDER S.. 2015. Introduction to Android Application Development, 5th Edition. Addison Wesley.