Designing Software Apps

Module Information

2022.01, Approved

Summary Information

Module Code	4176CSD
Formal Module Title	Designing Software Apps
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	44

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	This module aims to provide a thorough understanding of the principles of programme design.This module goes on to introduce the fundamental principles of how to design apps that are functional, effective and attractive. Mobile devices and smartphones have become the de facto vehicle for apps. The module will also explore the design of apps within the Android environment. The module will develop students' practical programming capability to build mobile based applications and generate effective user and technical documentation.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Create programming language constructs to demonstrate application and control of smart systems and devices.
MLO2	2	Apply appropriate software to design and create mobile applications.
MLO3	3	Write effective and comprehensive design and end-user documentation.

Module Content

Outline Syllabus	Programming basics and fundamentals.Structured software development and programme design techniques.Evaluation of existing mobile applications Application of UX (user Experience) and UI (user interfacing) for mobile app designUse of App Inventor and Android Studio softwareIntegration of mobile apps with plug-ins, web services, and external devices
Module Overview	
Additional Information	The module provides the student with a practical software-based design problem.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Report	70	0	MLO1, MLO2, MLO3
Report	Lab	30	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Magomed Muradov	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings