

# Mobile Computing

## Module Information

2022.01, Approved

### Summary Information

Module Code	5116COMP
Formal Module Title	Mobile Computing
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

### Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	22
Tutorial	11

### Module Offering(s)

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

### Aims and Outcomes

Aims	To develop an understanding of the theory and practice of building modern mobile computing system.To introduce wireless communication and networking principles the support modern mobile computing systemsTo provide an in-depth study of the application and network requirements of mobile computing systems.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Apply software technologies and methods to the development of a mobile computing system
MLO2	2	Explain the technical requirements of a mobile computing system
MLO3	3	Discuss mobile computing challenges and contemporary solutions to support them

### Module Content

Outline Syllabus	Introduction to Mobile ComputingMobile Computing Platforms and TechnologiesWireless Area NetworksWireless Cellular NetworksWireless Internet and Mobile IPMobility ManagementLocation Based Services
Module Overview	
Additional Information	Students will use their software development skills to design and develop a simple mobile application, that illustrates various challenges in the delivery of real-world mobile applications. Students will also examine contemporary mobile systems and use/enhance their research skills in producing a research report.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Design of a mobile system	50	0	MLO1, MLO2
Report	Research on mobile technology	50	0	MLO2, MLO3

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Gyu Myoung Lee	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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