

Summary Information

Module Code	3211FNDCMP
Formal Module Title	Applied Computing
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 3
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Syed Naqvi	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
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Lecture	22
Workshop	22

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	-The module aims to build students' knowledge of contemporary real-world applications of computing and information technology.-The module aims to explore scientific, technology and engineering concepts in computing with respect to the deployment of large scale information systems.-The module aims to equip students with skills to research case studies around a particular computing theme.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Identify relevant information relating to contemporary computing applications
MLO2	Compare solutions for large computing problems
MLO3	Combine information from a variety of sources to support a proposal
MLO4	Apply computing knowledge to a real-world scenario

Module Content

Outline Syllabus
The module will be delivered as set of topics on contemporary uses of computing to deliver large-scale solutions. The list of topics may vary each year but could include:• Cloud Computing• Big Data• Cryptography• Virtual / Augmented Reality• Serious Games• Mobile / Wireless Networks• Internet of Things (IoT)Case studies involving application of these topics in industries such as:• Emergency services• Healthcare• Sport• Law Enforcement• Environment• Government• Transport/logistics• Marketing

Module Overview
The emphasis of this module will be on the underlying computing challenges of large-scale applications of the kind regularly featured in the general media. The intention is to demystify these applications and spark your interest in the underlying computing challenges and solutions. Lectures on contemporary applied computing topics will be complemented with lab sessions encouraging you to research information and develop high-level solutions to related problems.

Additional Information

The emphasis will be on the underlying computing challenges of large-scale applications of the kind regularly featured in the general media. The intention is to demystify these applications and spark students' interest in the underlying computing challenges and solutions.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Review of computing solutions	40	0	MLO2, MLO1
Report	Proposal of a solution	60	0	MLO3, MLO4