Pre Masters Computing

Module Information

2022.01, Approved

Summary Information

Module Code	6600PMEC
Formal Module Title	Pre Masters Computing
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Study Group

Learning Methods

Learning Method Type	Hours
Lecture	10
Practical	50
Seminar	25
Tutorial	10

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit

JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aims	This module aims to provide students with knowledge of the fundamental concepts within computer science and an undertaking of hardware, software and issues around design and usability. Students will understand how to design and write programs as well as being able to understand problem solving skills in software design and development.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate an in-depth knowledge and understanding of the core concepts of key technologies and physical infrastructure elements used in computing.
MLO2	2	Critically examine the core concepts of the nature and development of software.
MLO3	3	Explain how computing interacts with user professional issues.
MLO4	4	Evaluate and apply the most appropriate IT applications and information handling techniques.
MLO5	5	Demonstrate the ability to apply a critical appreciation of the subject area with reference to leading developments in the field.

Module Content

Outline Syllabus	Hardware – Key principles, typesKey concepts of computer architecture – representation of data and programs in memory, arithmetic/logic unit, registers and instruction setsHistorical, current and future trends.Software – Key principlesMain types of software including operating systems, application softwareThe role of programmingThe legal, economic and social professional issues.Current state of the art programming
Module Overview	
Additional Information	This module will provide students with the knowledge and skills to prepare for progression to a postgraduate level programme in Engineering or Computing.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Presentation	Portfolio	50	0	MLO3, MLO4, MLO5
Exam	Examination	50	2	MLO1, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Contact Name	Applies to all offerings	Offerings