

Summary Information

Module Code	6521CSWUC
Formal Module Title	Contemporary Concepts in Computer Science
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Somasundaram Ravindran	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Martin Randles	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Westford University College

Learning Methods

Learning Method Type	Hours
Lecture	11
Practical	11
Tutorial	22

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	The aim of this module is to introduce Computer Science topics that are used or significant potential to impact upon future applications in modern technology.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Independently evaluate research topics within Computer Science.
MLO2	Assess the applicability of novel tools and complex techniques within a specified problem domain.
MLO3	Critically evaluate emerging research directions in computer science, and their impact on society and business.

Module Content

Outline Syllabus

Topics will be selected that are currently provoking widespread interest as regards applications (current and potential) or research and development. Such topics include:-Information and Social Networks-Parallel Computation-Quantum computation-Declarative Programming Languages-Data mining-Bioinformatics-Multi-agent systems-Cloud Computing

Module Overview

Additional Information

This module will develop an understanding of how computer science concepts, tools and techniques used in modern technology.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Report	50	0	MLO3, MLO1
Technology	Technology	50	0	MLO2