Contemporary Concepts in Computer Science

Module Information

2022.01, Approved

Summary Information

Module Code	6521COMECA
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

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Education Centre of Australia Pty Ltd

Learning Methods

Learning Method Type	Hours
Online	44

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
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.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Independently evaluate research topics within Computer Science.
MLO2	2	Assess the applicability of novel tools and complex techniques within a specified problem domain.
MLO3	3	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 regardsapplications (current and potential) or research and development. Such topicsinclude:-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)	Module Learning Outcome Mapping
Portfolio	Report	50	0	MLO1, MLO3
Portfolio	Technology	50	0	MLO2

Module Contacts

Module Leader

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

Partner Module Team

Contact Name	Applies to all offerings	Offerings