

Computer Science

Programme Information

2022.01, Approved

Overview

Programme Code	36678
Programme Title	Computer Science
Awarding Institution	Liverpool John Moores University
Programme Type	Top-up

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Bachelor of Science with Honours - BSH	N/A

Alternate Award Names	
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Partner Name	Partnership Type
Westford University College	Franchised

External Benchmarks

Subject Benchmark Statement	UG-Computing (2019)
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length Programme Length Unit
Full-Time, Face to Face	February	Westford University College	1 Years
Full-Time, Face to Face	September	Westford University College	1 Years

Aims and Outcomes

Educational Aims of the Programme	<p>The overall aim of the course is to provide a balanced, integrated and practical based education in all aspects of computing and the underlying science behind it for utilisation in organisations where IT and computing is a major activity. The specific aims of the course are as follows: -To provide students with a full, systematic understanding of current and developing Computer Science. -To enable the student to acquire the skills needed in applying computer science to practical development. -To bring the student to an understanding of the mathematical and scientific concepts that underpin modern computing. -To enable students to explore the issues surrounding Computer Science in Industrial contexts. -To facilitate students in the development of expertise and interest in topic areas of direct and complementary relevance to their work or planned career. -To encourage students to become advanced autonomous learners.</p>
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Learning Outcomes

Code	Number	Description
PLO1	1	Be critically aware of current and developing principles and practices within Computer Science.
PLO2	2	Specify a complex computer-based system.
PLO3	3	Deploy a wide range of appropriate computing tools, facilities and techniques to solve a computing problem.
PLO4	4	Deploy a wide range of information technology for effective information retrieval.
PLO5	5	Apply numerical and formal methods to computing problems involving a quantitative dimension.
PLO6	6	Communicate complex information effectively by written or verbal means.
PLO7	7	Apply conceptual and practical knowledge and skills to Computer Science problems.
PLO8	8	Use a range of advanced tools and techniques used in the specification of complex computer based systems.
PLO9	9	Critically analyse a range of software development domains.
PLO10	10	Plan and manage an IT project.
PLO11	11	Plan, conduct and report a research project.
PLO12	12	Implement systematic and comprehensive knowledge and understanding of Computer Science concepts, principles and theories.
PLO13	13	Use knowledge with originality in system modelling, requirements analysis and design.

PLO14	14	Critically evaluate and test a computer-based system.
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Course Structure

Programme Structure Description	WUC students will enter the programme at Level 6 with the Pearson BTEC Level 5 Higher National Diploma in Computing.
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Programme Structure - 120 credit points	
Level 6 - 120 credit points	
Level 6 Core - 120 credit points	CORE
[MODULE] 6521CSWUC Contemporary Concepts in Computer Science Approved 2022.01 - 20 credit points	
[MODULE] 6500CSWUC Project Approved 2022.01 - 40 credit points	
[MODULE] 6520CSWUC Computer Graphics and Visualisation Approved 2022.01 - 20 credit points	
[MODULE] 6519CSWUC Advanced Topics in AI Approved 2022.01 - 20 credit points	
[MODULE] 6529CSWUC Applied Data Science Approved 2022.01 - 20 credit points	

Teaching, Learning and Assessment

Teaching, Learning and Assessment	Core knowledge and understanding is acquired via lectures, tutorials, practical work, workshops and guided independent study. Independent study is used where appropriate resource material is available and increases as the programme progresses. Assessment methods are specified in each module specification. All learning outcomes in a module are assessed and the type of assessment specified for each outcome. Each module is assessed by course work. The nature of the course work varies for each module. Cognitive skills are developed throughout the programme via tutorial, group discussion, coursework, projects and presentations. Assessment of skills is by coursework. The final year project will further demonstrate the student's ability in this area. Practical skills are assessed via laboratory sessions, workshops, submission of reports, demonstration of skills and individual projects. Key skills are developed throughout the programme in a variety of forms. Specifically through a combination of research related coursework, guided independent study, projects and presentations. Key skills are assessed as part of coursework, and projects.
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Opportunities for work related learning

Opportunities for work related learning
WUC will provide dynamic opportunities for work-related learning, overseas exchanges, community engagement and student enterprise. This will be done through experiential training aids learning, as well as industry visits, overseas exchanges and visits are made wherein students from WUC visit foreign colleges and universities, as well as engage in social work outside.

Entry Requirements

Type	Description
BTECs	Pearson BTEC Level 5 Higher National Diploma in Computing delivered by WUC
Alternative qualifications considered	Applicants must have English language skills at the level required to study the programme, these are: a GCSE 'O Level' English of at least grade C (or IELTS 6.0 or equivalent) ; or the candidate will have studied a first degree that has been taught and assessed in English.

Programme Contacts

Programme Leader

Contact Name

Link Tutor

Contact Name

Silvester Czanner
