

Overview

Programme Code	36452
Programme Title	Computer Science
Awarding Institution	Liverpool John Moores University
Programme Type	Masters
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	
Link Tutor(s)	Dhiya Al-Jumeily

Partner Name	Partnership Type
UpGrad Education Private Limited	Franchised

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Master of Science - MS	See Learning Outcomes Below

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Part-Time, Face to Face	August	UpGrad Education Private Limited	7 Months
Part-Time, Face to Face	February	UpGrad Education Private Limited	7 Months
Part-Time, Face to Face	May	UpGrad Education Private Limited	7 Months
Part-Time, Face to Face	November	UpGrad Education Private Limited	7 Months

Aims and Outcomes

Educational Aims of the Programme

The overall aim of the programme is to provide people of graduate status working, or planning to work, in an advanced Computer Science and software development environment with the opportunity to enhance their career prospects by gaining additional knowledge and skills in the areas of Computer Science. The specific aims of the programme are as follows: -To provide students with a fuller, systematic understanding of current and developing computer science. To enable students to explore the issues surrounding Computer Science and algorithm development in Industrial contexts. -To facilitate students in the development of expertise and interest in topic areas of direct and complementary relevance to their work. -To encourage students to become advanced autonomous learners. -To provide students with a comprehensive understanding, critical awareness and ability to conduct evaluation of current Computer Science research issues. -To further develop students originality in applying analytical, creative, problem solving and research skills. -To provide advanced, conceptual understanding, underpinning career development, innovation and further study such as PhD.

Learning Outcomes

Code	Description
PLO1	Be critically aware of current and developing principles and practices within Computer Science.
PLO2	Use such knowledge with originality in algorithm modelling, requirements analysis and design of algorithms.
PLO3	Perform critical evaluation and testing for a computer based system.
PLO4	Deploy appropriate methods and tools creatively for the development of a complex computer based system.
PLO5	Apply appropriate research methods critically to conduct original computer related research.
PLO6	Develop and evaluate complex algorithms and projects.
PLO7	Manage Computer Science projects.
PLO8	Use a wide range of computing facilities effectively.

Code	Description
PLO9	Work individually and/or as a team member.
PLO10	Have widened and deepened conceptual and practical knowledge and skills in the areas of algorithms development and Computer Science.
PLO11	Have been exposed to and applied a range of advanced tools and techniques used in the development of complex computer based systems.
PLO12	Have critically analysed a range of development domains.
PLO13	Have a clear understanding of how to effectively and creatively manage the Development of different advanced algorithms.
PLO14	Be able to use knowledge with originality and be innovative in Computer Science.
PLO15	Be able to comprehensively and critically understand current research issues in the relevant aspects of Computer Science.
PLO16	Be able to study independently at an advanced level and have developed effective methodology skills for original research.
PLO17	Demonstrate systematic and comprehensive knowledge and understanding of Computer Science concepts, principles and theories.

Programme Structure

Programme Structure Description

This Computer Science programme exists as an MSc progression award for students progressing from the IIIT-B UpGrad Diploma in Software Engineering (Block Chain) or Software Engineering (Fullstack). Students starting prior to January 2021 will follow the previous programme rules. To obtain an MSc, students must acquire 180 level 7 credits:

Programme Structure - 180 credit points	
Level 7 - 180 credit points	
Level 7 Core - 70 credit points	CORE
[MODULE] 7613UPGRAD Project Dissertation Approved 2022.01 - 60 credit points	
[MODULE] 7639UPGRAD Research Methods Approved 2022.01 - 10 credit points	
Level 7 Optional - No credit points	OPTIONAL

Module specifications may be accessed at <https://proformas.ljmu.ac.uk/Default.aspx>

Teaching, Learning and Assessment

Acquisition of 1 - 14 is through a combination of lectures and tutorials. Throughout the learner is encouraged to undertake independent reading both to supplement and consolidate what is being taught / learnt and to broaden their individual knowledge and understanding of the subject. Knowledge and understanding is assessed via formal examination, individual and team coursework, and a full-scale individual MSc Dissertation. Skills 1 - 9 are taught through lectures and developed through tutorial work throughout the programme. Cognitive skills are partly assessed via formal examinations, but mainly through coursework assessment. The MSc Dissertation allows a student to demonstrate his/her cognitive skills. Practical advanced skills are developed throughout the programme. Key skills are developed throughout the programme in a variety of forms. Specifically through a combination of research related coursework, guided independent study and projects, group work and presentations. Key skills are assessed as part of coursework, projects, written examinations and presentations.

Opportunities for work related learning

There are no external placements during the programme. However business skills of project development, management, implementation and presentation are embedded throughout the course. Each student will be allocated to a supervisor who will act as the line-managers for the project. The supervisor will have complementary skill sets in the problem domain and the machine learning domain. Weekly 1 hour meetings of the supervisor and student will monitor progress and provide opportunities for developmental feedback. The aim is to run the projects in the same fashion as either an academic or industrial project is done externally. As part of the research methods and project modules, the students will be encouraged and assisted to develop a professional on-line presence.

Entry Requirements

Type	Description
Other international requirements	IIIT-B UpGrad Diploma in Software Engineering (Block Chain) or Software Engineering (Full stack).

Extra Entry Requirements