



NEW START4U CIC
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12-14 Riley Square,
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MSc Computing and Technology (Part-Time)

London Campus

Level of study: Postgraduate

Mode of study: Part-time

Duration: 2 years (15 weekends)

Overview

The MSc Computing and Technology programme is designed specifically to enable you to update, extend and deepen your knowledge in computing and IT and wider digital leadership and technology subjects, in order to enhance and accelerate your career opportunities. By completing the MSc Computing and Technology you will be able to demonstrate capabilities in the disciplines of Computing and Digital Technology.

The programme is specially aimed at those who are wishing to develop and advance their career within the technology sector and is ideally suited to those who have no prior learning in computing subject areas, the modular content is reflective of this strategy.

Key facts

- . Designed for those wishing to develop or accelerate a career in computing and technology
- . Delivered over 2 years in Part-Time mode – 15 weekends with supporting online or face-to-face tutorials as required
- . Enhance your knowledge in the application of programming language, big data and software life cycle modelling Learn how to develop an innovation strategy whilst assessing associated risks and innovation capabilities in an organisation. Structured professional practice support for career development or transition, including a career review and development plan.

Course information

Level of study: Postgraduate

Fees: To find out about current fees and student finance contact us

Entry requirements: 2:2 (second class) honours or equivalent from a recognised university in any subject (except Cyber Security) Professional qualifications that are equivalent to an honours degree or work experience may also be acceptable .

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Assessment methods: Coursework

Scholarships or bursaries: available

Student finance: available

Payment plan: available

Starts: Jan, Apr, Jul, Oct,

About this course:

What will I study?

The MSc Computing and Technology programme is designed specifically to enable you to update, extend and deepen your knowledge in computing and IT and wider digital leadership and technology subjects, in order to enhance and accelerate your career opportunities. By completing the MSc Computing and Technology you will be able to demonstrate capabilities in the disciplines of computing and digital technology.

This programme is also available full-time, or as MSc Computing and Technology with Advanced Practice which includes an internship, consultancy project or research project.

The central theme of the programme is to develop you as digital leader, and in support of this throughout the programme you will engage in a range of modules designed to develop your competences in areas such as Digital Leadership, Information Governance and Cyber Security, Innovation in Business & Technology, Software Engineering and Database Analytics.

The modular content has been designed to allow you to extend and deeper learning in specific areas in the areas of specialism which are relevant to you. For example, the digital leadership module is designed to support future career progression into roles within engineering and technology organisations. It also provides a useful foundation for those seeking to pursue a career in areas such as technology research and development, technology commercialisation, leading technology spin out firms and new business ventures, and innovation consultancy.

The programme recognises that as a computing professional you are required to develop competences in a range of specific computing techniques alongside softer skills in areas such as leadership, communication, problem solving and commercial reasoning. By successfully completing your programme you will have not only have demonstrated mastery of these skills but alongside the development of your personal practice your ability to impact on personal and organisational performance. It is the combination of these factors that will advance your personal development and enlance your career opportunities.

As you progress through the programme you will develop as a well-rounded and outward looking professional capable of taking responsibility for, and effective leadership of, computing and technology projects and people, capable of



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making good decisions and improving the performance of yourself, your people, your areas of responsibility and your organisation.

The programme will cover the following languages:

- . Web Technologies such as HTML, CSS and JavaScript
- . Object Oriented Programming languages such as Java
- . Database and Data Analytics- SQL, MySQL, and data analytics software (e.g. Tableau, etc.)

How will I be taught and assessed?

You'll be taught using a range of methods such as workshops, tutorials, directed study and discussion forums, and led by experienced lecturers and academics who use their industry and research experience to demonstrate how the theories, tools, technologies and methods you will learn on the programme translate in to real life situations.

As a student working in the computing environment you will be encouraged by your tutor to integrate your work practice in the module content and development of assessments. By following this approach there are opportunities to connect learning delivered during the module to your role and vice versa.

For each module you can expect 24 hours of overall contact time delivered through interactive workshops and face-to-face classroom sessions. This will be supported by a minimum of 12 hours of guided tutor learning which can be delivered virtually, examples include tutorials, tutor led collaborative exercises with peers, discussion forums and video presentations.

You will also be expected to engage in independent study, around 164 hours for each module. This will be supported by your module tutor and will consist of pre-class reading preparation, research, assessment preparation, development and writing as well as skills development and online tests and quizzes.

The assessment for this programme is 100% coursework, with examples including report writing and tangible pieces of work such as a programme or database, portfolio and final project.

Technology Enhanced Learning (TEL) is embedded throughout the course with tools such as the 'Blackboard' eLearning Portal and electronic reading lists that will guide your preparation for seminars and independent research.

We offer extensive student support in and outside of the classroom with a dedicated student support team based in London.

Careers and further study

This Masters programme has been designed in consultation with partners from industry to ensure you learn up-to-date computing knowledge required by employers across the industry. Graduates from the programme will be equipped to work in a variety of careers in the IT industry or to progress to academic or research-orientated careers.

The modular content has been designed to allow you to extend and deeper learning in specific areas in the areas of specialism which are relevant to you.



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This MSc has been designed to ensure that graduates from the programme will be equipped to work in a variety of careers in the IT industry. Indeed, the qualification is designed to accelerate your skills and competence in a range of job

roles, including roles in leadership and management in IT, Software Engineer, Database Developer, Data Analyst, Information Security professional, Business Analyst, to name but a few.

Entry requirements

Applicants should have:

Standard entry requirements

. Minimum 2:2 or above from a recognised university in any discipline (except Cyber Security)

. Professional qualifications that are equivalent to an honours degree

Non-standard entry requirements

Relevant qualifications and/or work experience, such as CompTIA, Cisco, Microsoft, (ISC)2, Amazon AWS or any other related certifications, will be taken into consideration where the applicant has the judged potential to benefit from the programme. Requests will be considered on an individual basis by the Programme Leader and relevant module tutors where appropriate.

Modules

All modules on this course are core.

Information Governance and Cyber Security (20 credits)

In this module you will learn about the information governance and cyber security principles that underpin the management of an organisation's information assets. In doing so you will critically analyse the key concepts, theories, standards and frameworks of information governance and security, including risk management. This will enable you to evaluate an organisation's or the one in which you work, their current approach to information governance and cyber security and to advise on the design and implementation of an appropriate strategy for managing an organisation's information assets to meet legal, regulatory, organisational and/or societal needs for information governance and cyber security.

Leadership in a Digital Age (20 credits)

In this module you will develop new knowledge and skills in leadership in a digital context. These capabilities are essential for your career development as they enable you to become competent at the visioning, development and deployment of technological strategies and responses to challenges and opportunities in complex organisational environments.

Principles of Software Engineering (20 credits)

In this module, you will develop new knowledge and skills in Software Engineering, apply them, and critically analyse the implementation and recommend potential future improvements. Such knowledge and



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Database and Analytics Principles (20 credits)

In this module, you will develop new knowledge and skills in data analytics, apply them in your own context, critically analyse the implementation and recommend potential future improvements. Such knowledge and skills are particularly beneficial for a career in areas such as business analytics, business intelligence, data analytics and data science.

Innovations in Business and Technology (20 credits)

In this module, you will develop new knowledge and skills in Managing Technology Innovation, apply them and critically analyse how innovation in its various forms affect business competitiveness and recommend potential future improvements. This module prepares technologists and specialists to be innovators within their own organisation, enabling them to contribute or lead future internal transformation or entrepreneurial initiatives.

Research Methods for Professional Practice (20 credits)

This module is designed to ensure you have the skills and knowledge to complete a postgraduate research project which is relevant to Computing and Technology and career or future aspirations. As such, in the early part of your studies you will work closely with careers and professional development specialists to consider your career or future learning opportunities post completion of your degree. You will subsequently develop a career plan and reflective log considering how your learning from the programme can accelerate the achievement of this plan.

Academic Language Skills for Computer and Information Sciences (0 credits)

The aim of this module is to support your study, language and communication skills for academic purposes in the study in your chosen discipline. The module is designed to enable you to become an independent learner. The module is supported by a teaching and learning plan which outlines the formal sessions, together with the tutor-directed study and independent reading. Interactive seminars will be tailored to address some of the specific issues that you meet within your discipline. Directed learning will require a range of activities including pre-reading, preparation for interactive activities and use of the e-learning platform. You will be expected to identify those skills which you need within your programme, and to develop these independently through a range of learning activities that might include extended reading, and reflection.

MSc Computing and Digital Technologies Project (60 credits)

The aim of this module is to enable you to undertake a substantial academic research project at Masters level and present the results from this work in both written and oral forms. Your project itself will be a major piece of independent

and original research centred at the forefront of your programme discipline within the wider sphere of the computer science and digital technologies field. You will experience the full life cycle of a research project



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from initial conception and development of a research proposal, through a critical review of the literature, planning, design, implementation and analysis of your main research project, to final evaluation, reflection and dissemination. You will be expected to consider and address the professional, ethical, legal and social issues related to this academic research project. You will also be expected to apply your expertise, project management and practical skills within your particular domain of computer science and digital technologies and demonstrate critical and innovative thinking and problem solving within a research environment.

Please note that your tuition fees do not include the cost of course books that you may choose to purchase, stationery, printing and photocopying, accommodation, living expenses, travel or any other extracurricular activities. As a London Campus student, you will have full access to our online digital library with over 400,000 e-books and 50,000 electronic journals.

The modules you will study do not require you to purchase additional textbooks although we recommend you allow an additional £200-250 for the duration of your studies should you choose to purchase any additional reading materials.

Payment plans

We offer an interest free monthly payment plan available to all self-funded students after payment of your deposit.