



**NEW START4U CIC**  
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12-14 Riley Square,  
Coventry CV2 1LX, UK

# **MSc Computing and Technology with Advanced Practice**

**London Campus**

**Level of study: Postgraduate**

**Mode of study: Full-time**

**Duration: 16 - 24 months**

## **Overview**

The MSc Computing and Technology with Advanced Practice 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.

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 Advanced Practice option integrates an Internship, Group Consultancy Project or Research Project into the Masters programme, offering the opportunity to spend three months gaining all-important work experience and employability skills in a professional work setting.

## **Key facts**

Enhance your knowledge in the application of programming language, big data and software life cycle modelling. Develop your business intelligence and leadership capabilities

The Advanced Practice includes an Internship, Group Consultancy Project or Research Project, enhancing your employability with all-important work experience. Upon graduating, opt to further develop your skills and employability with Professional Pathways programmes through one of the UK's leading IT and project management training providers.

## **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 degree or equivalent IELTS 6.5 (or above) with no component less than 5.5 .**

**English language requirements: IELTS 6.5 with no component less than 5.5**



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**Mode of study: Full-time**

**Duration: 16 - 24 months**

**Assessment methods: Coursework**

**Scholarships or bursaries: available**

**Student finance: available**

**Payment plan: available**

**Starts: Jan, May, Sep,**

### **About this course:**

#### **What will I study?**

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.

This programme is also available as MSc Computing and Technology which lasts for one year. Alternatively, you can study the MSc Computing and Technology Part-Time.

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

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 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 enhance your career opportunities.

#### **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.)

Advanced Practice stage



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The Advanced Practice version of this course offers you a valuable opportunity to secure a 12-15 week internship, Group Consultancy Project or complete a Research Project, giving you experience of the workplace environment or live computing issues, and an excellent way to put your learning into practice.

This stage of the programme will take place between your second and final semester, and is a semester long (15 weeks) in duration.

The full duration of your programme will depend on your start date:

September start dates: your programme will last up to 21 months. You will have a summer break after Semester 2, and commence your Advanced Practice stage in September.

January start dates: your programme will run for 24 months. You will commence your Advanced Practice stage in the following January. Please note there are two summer breaks included in this programme for those starting in

January.

May start dates: your programme will run for 16-18 months. There is no summer break included in this programme

for those starting in May. Your Advanced Practice stage will commence in January.

### **How will I be taught and assessed?**

You'll be taught 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.

Teaching will take place in a mix of lectures, workshops, labs, seminars and tutorials, totalling between 10-12 hours per week.

You will also be expected to engage in independent study involving directed and self-directed learning, between 30-32 hours per week.

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. Computer labs equipped with software are also used for practical sessions. The programme is 100% assessed through coursework, including critical report writing, practical exercises, individual, group and research project work. Significant emphasis is placed on developing your ability to complete a Masters degree. As part of induction you will be made fully familiar with the learning resources and support available to you. There will also be weekly academic support sessions designed to build your confidence and ability as a postgraduate learner. You will also be allocated an individual guidance tutor at induction. You will meet this tutor at regular intervals across your period of study.

### **Careers and further study**

This Masters programme has been designed to ensure that 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. Indeed, the qualification



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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 the following:

Academic requirements

. Minimum 2:2 (second class) honours degree from a UK university or equivalent

Professional qualifications with equivalent standing which had a significant requirement for academic study, may also be considered. If you don't meet the academic requirements Applicants who do not meet the academic requirements but who do have substantial experience of working in a business organisation and/or possess a relevant professional qualification will also be considered. If you are unsure if you meet the entry criteria, please contact us and our team will be able to advise you.

Alternatively, you may also be eligible for our Pre-Masters courses. These are pathway programmes designed specifically for students who are looking to progress on to a Masters degree.

### **English language requirements**

Students require IELTS 6.5 (or above) with no single element below 5.5 or equivalent.

If you have IELTS 5.5 – 6.0, you may be eligible to join our Pre-Sessional English before starting this programme.

### **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.



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### **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 skills are particularly beneficial for a career in roles where you are required to architect, develop and deliver complex software systems from agreed specifications by employing industry standard conventions and tools.

### **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.

### **Engineering and Environment Advanced Practice (60 credits)**

The Advanced Practice module is designed to deepen your knowledge and enhance employability in your specialist field. The module provides you with the option to either undertake a work placement, complete a group consultancy project or join a research group for one semester as part of your programme. This



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experience gives you the opportunity to apply skills and knowledge acquired during the taught part of your programme and to acquire new skills and knowledge in an alternative learning environment. Specific learning will be defined in a personal learning contract.

You will have the option to complete one of the following:

- . A Group Consultancy Project
- . An Internship
- . Research project

### **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 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.