



**NEW START4U CIC**  
024 7767 1470  
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12-14 Riley Square,  
Coventry CV2 1LX, UK

# MSc Cyber Security Technology (Part-Time)

**London Campus**

**Level of study: Postgraduate**

**Mode of study: Part-time**

**Duration: 2 years (15 weekends)**

## **Overview**

This MSc will provide you with a recognised postgraduate qualification in Cyber Security Technology. The programme is designed specifically to enable you to update, extend and deepen your knowledge in Cyber Security and related technology and wider digital leadership and technology subjects, in order to enhance and accelerate your career opportunities.

The programme has been designed for those who have an undergraduate degree in any discipline who wish to study for a qualification which focuses on cyber security. The MSc in Cyber Security Technology is ideally suited to those who have no prior learning in cyber security, the modular content is reflective of this strategy.

## **Key facts**

Designed for those wishing to develop or accelerate a career in Cyber Security and Management of Cyber Security Work related assessment wherever possible designed to deliver impact into your organisation. Develop an understanding of the architectures and security concepts relevant to cloud computing and data storage Learn cutting edge computer security principles, models and technologies required to defend against security threats, attacks, vulnerabilities, threat actor types, critical security controls and cryptography types. Delivered over 2 years in Part-Time mode – 15 weekends with supporting on-line or face to face tutorials as required 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.**

**Mode of study: Part-time**

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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 Cyber Security Technology programme is designed specifically to enable you to update, extend and deepen your knowledge in cyber security technology and wider digital leadership and technology subjects, in order to enhance and accelerate your career opportunities. By completing the MSc in Cyber Security Technology you will be able to demonstrate capabilities in the areas of the Digital Leadership, Information Governance and Cyber Security, Cloud and Big Data Security, Introduction to Computer Networks Security, Computer Networks and Security, Research Methods for Professional Practice and Computing and

#### **Digital Technologies Project.**

As you progress through the programme, you develop as an up to date, well rounded and outward looking professional capable of taking responsibility for and effectively leading cyber security 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 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 where there is a requirement to manage other cyber specialists. It also provides a useful foundation for those seeking to pursue a career in cyber security in a role where you are required to perform security vulnerability assessments and penetration testing for networked information systems. Knowledge gained from studying the programme will enable you to conduct threat intelligence analysis to keep up to date with the changing threat landscape.

The programme recognises that as an aspiring cyber security technology professional you are required to develop competences in a range of specific cyber 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



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performance. It is the combination of these factors that will advance your personal development and enhance your career opportunities.

### **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 programme has been designed to ensure that graduates will be well equipped to work in a variety of careers in the cyber security/IT industry or to progress to academic or research-orientated careers. 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, Cyber Security Engineer, Cyber Security Analyst, Cyber Security Consultant, IT Security and Support Manager, Information Security professional and Business Analyst. In addition, the specialist modules provide opportunities to develop your career in roles such as Big Data Security Analyst and Big Data Developer and also for a career in the networking field such as Network Analyst, Network Solution Architect, Network Engineer, Network Specialist and Network Manager.

### **Entry requirements**

Applicants should have:



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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.

### **Big Data and Cloud Security (20 credits)**

This module will provide you with an in-depth knowledge of cloud and big data security. This module is a specialist module and as such will develop your skills in a variety of aspects of cloud security, these capabilities are becoming increasingly desirable by employers as more organisations use the cloud for storing sensitive data.

### **Computer Networks and Security (20 credits)**

The module aims to introduce you to the role and internal operation of computer networks. You will learn relevant concepts and technologies at a layer's level, and the demands placed upon computer networks and security requirements required to successfully support current and emerging applications

This module provides you with a critical appreciation of computer networks and security. You will learn about the underpinning networking concepts and security consideration to design and implement a secure network using appropriate technologies.

### **Computer Security (20 credits)**



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This module builds on 'Introduction to Computer Networks and Security' and aims to provide you with a deeper understanding of critical computer security techniques and in-depth knowledge of countermeasures. You will learn relevant cutting-edge computer security principles, models and terminologies required to secure modern computers. This module provides you with a critical appreciation of computer security. You will learn computer security concepts, technologies, countermeasures, issues and industry standards.

### **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 Cyber Security 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 or 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.

### **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.



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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.