

## Template C4



# Programme Specification

**Title of Course:** *BSc (Hons) Computer Science (Networking and Network Security)*

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<b>Version number</b>	5
<b>Faculty</b>	Faculty of Engineering, Computing and the Environment
<b>School</b>	School of Computer Science and Mathematics
<b>Department</b>	Department of Computer Science
<b>Delivery Institution</b>	ESOFT Metro Campus

This Programme Specification is designed for prospective students, current students, academic staff and employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if they take full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes and content of each modules can be found in the course VLE site and in individual Module Descriptors.

## SECTION 1: GENERAL INFORMATION

<b>Award(s) and Title(s):</b> <i>Up to 10 pathways</i>	BSc (Hons) Computer Science (Networking and Network Security)
<b>Intermediate Awards(s) and Title(s):</b> <i>There are 4 Intermediate awards for each pathway</i>	No applicable
<b>Course Code</b> <i>For each pathway and mode of delivery</i>	
<b>UCAS code</b> <i>For each pathway</i>	N/A

<b>RQF Level for the Final Award:</b>	6
<b>Awarding Institution:</b>	Kingston University
<b>Teaching Institution:</b>	ESOFT Metro Campus
<b>Location:</b>	Sri Lanka
<b>Language of Delivery:</b>	English
<b>Modes of Delivery:</b>	Full-time
<b>Available as:</b>	
<b>Minimum period of registration :</b>	Full-time - Full-time – 1 year
<b>Maximum period of registration :</b>	Full-time - Full-time – 2 years
<b>Entry Requirements:</b>	The minimum entry qualifications for the programme are: 1. Edexcel HND Levels: A pass in the relevant HND to include a pass in the sixteen units listed in Table 1 below (or their equivalent) and the achievement of an overall score of 240 credit points of which 120 would be at Level 5

2. Completed the 2<sup>nd</sup> year of the University Of Colombo, School Of Computing's Bachelor of Information Technology External Degree, covering the subjects shown in Table 2.  
Or
3. Completed the British Computer Society's (BCS) Higher Education Qualification's (HEQ) Certificate and Diploma levels, shown in Table 3.  
Or
4. Case by case consideration of equivalent academic and professional qualifications achieved at comparable levels

Table 1: Pearson BTEC HND in Computing (Network Engineering)

Subject Details	QCF Level	Cred
Programming	4	
Networking	4	
Professional practice	4	
Database design and development	4	
Security	4	
Managing a successful computing project	4	
Maths for computing	4	
Web design and development	4	
Computing research project	5	
Business intelligence	5	
Cloud computing	5	
Emerging technologies	5	
Computing research project	5	
Discrete maths	5	
Transport network design	5	
Network security	5	

Table 2: UCSC BIT Degree Year 1 and Year 2

Subject Details	QCF Level
Information Systems & Technology	4
Computer Systems I	4
Web Application Development I	4
Communication Skills	4
Introductory Mathematics	4
Personal Computing	4
Mathematics for Computing I	4
Programming I	4
Database Systems I	4
Systems Analysis & Design	4

Object Oriented Analysis & Design	5
Fundamentals of Software Engineering	5
Mathematics for Computing II	5
User Interface Design	5
Web Application Development II	5
Programming II	5
Information Technology Project Management	5
Rapid Software Development	5
Computer Networks	5

Table 3: BCS HEQ Certificate & Diploma Level

Subject Details	QCF Level
Information Systems	4
Software Development	4
Computer & Network Technology	4
Professionals issues in IS practice	5
Option to be selected	5
Option to be selected	5
Option to be selected	5

A minimum overall IELTS score of 6.0 with a minimum of 5.5 each element, iBT TOEFL 80 with R at 20, L at 19, S at 21 and W at 20 or equivalent is required for those for whom English is not their first language. A minimum of a Credit pass at the Sri Lankan G.C.E O/L English Language exam will also be considered as equivalent to this level.

We will consider a range of alternative qualifications or experience that is equivalent to the typical offer. Applications from international students with equivalent qualifications are welcome.

All applications will be subject to the Kingston University Accreditation of Prior Learning (APL) rules and regulations applicable at the time of application.

<b>Programme Accredited by:</b>	Non-accredited programme
<b>QAA Subject Benchmark Statements:</b>	Computing
<b>Approved Variants:</b>	<ul style="list-style-type: none"> <li>• <u>Not applicable</u></li> </ul>

<b>Is this Higher or Degree Apprenticeship course?</b>	

*For Higher or Degree Apprenticeship proposals only*

<b>Higher or Degree Apprenticeship standard:</b>	N/A
<b>Recruitment, Selection and Admission process:</b>	n/a
<b>End Point Assessment Organisation(s):</b>	n/a

## SECTION 2: THE COURSE

### A. Aims of the Course

The over-arching aim of the Computer Science (Networking and Network Security) course is to produce highly trained graduates with specialist technical knowledge and scientific mind set, capable of solving real world problems, are driven by passion, sustainability and wider socio-technical implications are considered at all levels. Specifically the aims are to produce graduates who:

- have the required knowledge, skills and attitudes to practice as computing professionals in both industry and commerce
- are equipped to meet the academic, professional and practical requirements for membership of appropriate professional bodies.
- are aware of the actual and potential range of information and computer-based systems and of the ways in which these interact with their material, human, organizational and social environments
- possess the appropriate ability and inclination, and are equipped, to undertake advanced studies and/or research and development in the computing and information systems disciplines
- can apply their knowledge and skills in the various contexts in which information and computer-based systems are developed. In particular, can both initiate and sustain a planned and disciplined personal effort when working alone and can participate effectively as a member of a team
- have an inquisitive and reflective attitude when modelling systems and understands the functional and qualitative properties of systems.
- have the ability to evaluate and predict security, performance and efficiency associated system properties and their context dependencies.
- understand and can articulate the legal, ethical, social, cultural and public aspects of problems and solutions.
- have the capacity to acquire new knowledge and skills independently; reflect on trends in the computing domain and their actions are demonstrative of a creative contribution.

### B. Intended Learning Outcomes

The programme outcomes are referenced to the QAA subject benchmarks for Computing and the [Framework for Higher Education Qualifications of UK Degree-Awarding Bodies \(2014\)](#), and relate to the typical student. The course provides opportunities for students to develop and demonstrate knowledge and understanding specific to the subject, key skills and graduate attributes in the following areas:

The programme learning outcomes are the high-level learning outcomes that will have been achieved by all students receiving this award. They must align to the levels set out in the [‘Sector Recognised Standards in England’](#) (OFS 2022).

Programme Learning Outcomes					
	Knowledge and Understanding		Intellectual Skills		Subject Practical Skills
	On completion of the course students will be able to:		On completion of the course students will be able to		On completion of the course students will be able to
A5	identify the different project management approaches commonly used in the IT industry and select, modify or construct one for a given context	B5	use different programming approaches, patterns and/or paradigms, and justify the selection of one or more for a given context	C5	specify, design and prototype human/computer interfaces using HCI and UX theory and best practices
A4	explain the different ways in which data and information may be represented, stored and transmitted	B4	elicit, evaluate and model business, customer and user requirements, incorporating considerations such as sociological and commercial contexts, user experience, aesthetics and technical practicalities	C4	implement software solutions using a variety of programming languages, environments and platforms
A3	explain security issues and evaluate risk for the safe operation of computing and information systems	B1	analyse, abstract and decompose problems to design effective solutions	C3	collaborate and communicate effectively with other professionals/stakeholders to plan, design, manage, implement and deliver IT projects
A1	explain and apply essential concepts, theories, principles and practices of computer science	B2	synthesise information from disparate and potentially incomplete sources to model and build systems, documents and other related artefacts	C2	use (and, where appropriate, modify) established systems, software development methods, techniques and tools to model and build computer based solutions
A2	explain the social, ethical, legal, commercial and other human factors that affect the design, development, deployment of computer systems	B3	analyse and evaluate the extent to which a system meets the criteria for its current use and future development	C1	develop and critically evaluate specifications for specialist computer systems and communicate these specifications to other computing professionals





In addition to the programme learning outcomes, the programme of study defined in this programme specification will allow students to develop the following range of Graduate Attributes:

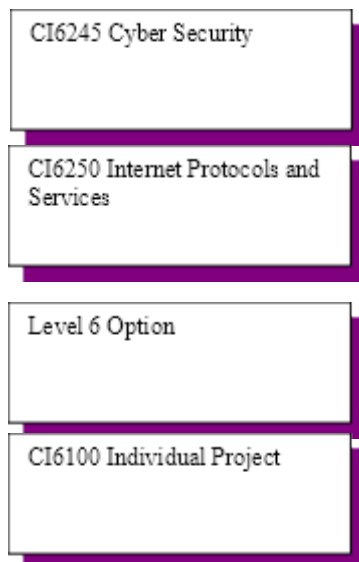
1. Creative Problem Solving
2. Digital Competency
3. Enterprise
4. Questioning Mindset
5. Adaptability
6. Empathy
7. Collaboration
8. Resilience
9. Self-Awareness

### C. Outline Programme Structure

This programme is offered in full-time mode and leads to the award of a BSc (Hons) degree. Entry is normally at level 6 with HND (See section D). Transfer from a similar programme is possible but is at the discretion of the admissions tutor. Intakes are normally in January and September.

*BSc (Hons) Computer Science (Networking and Network Security) – top-up year*

#### LEVEL 6



#### **Level 6 Modules**

Student must take three core modules (including the Individual Project module) and select one option modules.

#### Core Modules

## BSc (Hons) Computer Science (Networking and Network Security)

Level 6							
BSc (Hons) Computer Science (Networking and Network Security)							
Core modules	Module code	Credit Value	Level	Teaching Block	Pre-requisites	Full Time	Part Time
Cyber Security	CI6245E	30	6	1 and 2	None		
Individual Project	CI6100	30	6	1 and 2	None		
Internet Services and Protocols	CI6250	30	6	TY13		3	
Optional Modules							
Advanced Data Modelling	CI6320E	30	6	1 and 2	None		
Digital Entrepreneurship	CI6415E	30	6	1 and 2	None		
Software Development Practice	CI6125	30	6	Ty13		3	

### D. Principles of Teaching, Learning and Assessment

The learning and teaching strategies reflect the field aims and learning outcomes, student background, potential employer requirements and the need to develop a broad range of technical and professional skills, with the ability to apply them appropriately. The strategies ensure that students have a sound understanding of computing and have acquired the transferable skills expected of modern-day graduates.

The programme is designed according to the Kingston University Curriculum Design Principles and it utilises a wide range of teaching and learning methods to enable all students to be actively engaged throughout the course. The learning, teaching and assessment strategies reflect the programme aims and learning outcomes, student background, potential employer requirements, and the need to develop a broad range of technical skills with the ability to apply them appropriately.

The academic year includes scheduled contact time for lectures, workshops, enhancement activities, and revision. The standard module provision includes laboratory sessions, seminars, group work – to underpin the principles taught in the lectures – but, also dedicated programming aid sessions for students needing further help.

The capstone project is a mandatory part of the programme. It offers students the opportunity to integrate their cumulative academic studies and practical skills with a single project, which may be for a real client.

Learning computer science is often most readily undertaken in the context of the search for solutions to real-life problems. This is reflected in the approach that will be gradually

introduced to this programme, alongside conventional classroom teaching, and is epitomised in the problem-centred learning practice. Students will be frequently working in groups, focusing on real-world problem solving. This will contribute to creating a rich learning environment in which students and their teachers collaborate as a team. It significantly enhances students' readiness for employment in industries where different skills and backgrounds complement each other to deliver a better product.

ESOFT Learning Management System (ELMS), the Campus' virtual learning environment (VLE), is used extensively in all modules as a communication tool and means of dissemination of learning and reference materials, formative worksheets, assignments, links, videos and lecturer-annotated slides. In this way it acts as a dynamic study guide in each module and going further it provides a structured learning space to support students for independent study, facilitate discussion, and in addition in some modules, for formative and summative tests and surveys. ELMS (VLE) is also used to facilitate group work, both formatively and summatively.

Study materials, including examples and exercises, are published on ELMS in advance of the time-tabled sessions, to allow students to prepare and fully benefit from classroom time. The availability of this material assists students from various backgrounds to achieve a common level at the start of the session or to highlight any deficiencies which they can then address with the lecturer.

Students are encouraged to develop as independent learners as they progress through their course. This is supported explicitly through the individual project module.

### **Assessment and Feedback**

The assessment is regarded as an integral part of our learning and teaching strategy, and incorporates both assessments of and for learning. Ample opportunities are given to students for formative assessment with rapid feedback.

A wide range of assessment mechanisms is used to ensure that students with diverse backgrounds and different strengths and abilities are not disadvantaged and to ensure that our students are capable of tackling many different types of problems. The methods of assessment have been selected so as to be most appropriate for the nature of the subject material, teaching style and learning outcomes in each module and the balance between the various assessment methods for each module reflects the specified learning outcomes. Emphasis is given to authentic assessments based on real-world problems. This allows the students to produce "artefacts" as outcomes of the assessment process, forming a portfolio which provides tangible evidence of their developing skills and knowledge thus enhancing their employment prospects.

### **Inclusive Teaching Practice**

Opportunities to insure that the curriculum is inclusive take place at forums as the Staff Student Consultative Committees and Boards of Study together with discussions at module and course level. Meetings take place between subject teams to consider subject specific issues. The variety of teaching activities also takes account of the students' different learning preferences and experiences and there is a careful balance of individual and group based activities.

Marking criteria are provided for all assessments as part of the assessment booklet at the beginning of the year for each module and care is taken to ensure that the language used in the assessment is jargon free, which is checked by the moderator. The case studies used are designed to be inclusive.

Feedback, in a variety of formats provides students with guidance in developing skills which are both beneficial for future assessments and highly valued by employers.

The 30 credit capstone Individual Project, consolidates independent learning skills and typically provides an opportunity for practical application of their academic knowledge to the implementation of a solution or construction of a suitable artefact.

In the programme as a whole, the following components are used in the assessment of the various modules:

- Practical exercises: to assess students' understanding and technical competence
- Individual and group-based case studies: to assess ability to understand requirements, to provide solutions to realistic problems and to interact and work effectively with others as a contributing member of a team. The outcomes can be:
  - Written report, where the ability to communicate the relevant concepts, methods, results and conclusions effectively will be assessed.
  - Oral presentation, where the ability to summarise accurately and communicate clearly the key points from the work in a brief presentation will be assessed.
  - Poster presentation where information and results must be succinct and eye-catching.
  - Video, which may replicate features of oral presentations but allows advance preparation away from the audience (which may suit some students better).
  - Article emphasising the ability to communicate with different audiences.
  - Interview emphasising the ability to answer questions appropriately and relevantly.
  - Simulated client interactions: letters, quotations, etc.
- Multiple choice or short answer questions: to assess competence in basic techniques and understanding of concepts.
- Long answer structured questions in coursework assignments: to assess ability to apply learned techniques to solve simple to medium problems and which may include a limited investigative component
- Long answer structured questions in end-of-module examinations: to assess overall breadth of knowledge and technical competence to provide concise and accurate solutions within restricted time
- Project: The individual project module represents an opportunity for students to draw together different aspects of their learning on the course and to apply the techniques learned in an extended study. As such the assessment here will place a greater emphasis on ability to plan work, manage time effectively, and research background information, culminating in a written report and interview.

At the beginning of each academic year there is a joint department-wide meeting at which the delivery of material and assessments is planned with a full calendar being constructed.

This ensures:

- that care is taken to avoid summative assessment bunching and thus student workloads are managed;
- synchronised and coherent delivery of material across the programme in a way that is visible both to staff and students, thus enabling assessments to draw on skills and knowledge from an appropriate variety of modules.

Students are expected to develop their skills, knowledge, confidence and understanding through independent and group learning, in the form of guided and self-directed study, and the exploration of the application of computing in the real world, throughout their course. These are reinforced with professional development opportunities tailored for the top-up level and delivered by ESOF Career Guidance Unit. Furthermore, all students explore group case

studies in computing and information systems, requiring the collaborative investigation/solution of some real world problems as well as the production of written reports and oral or poster presentations. These foster the development of team-working, research and (formal) communication skills. All students will carry out research and development and present the background to and findings of their projects as indicated above. This will enhance their research and investigative skills to explore and master complex new ideas, learn and apply advanced techniques and further develop their independent working and communication skills.

### **Research Informed Teaching**

The course team is research active within the ESOFTE Research Centre (ERC), which is dedicated to the advancement of the theory and applicability of computer science to enable internationally-leading work in the field of informatics, addressing the needs of society in the thematic areas of health, communications, security and data. The centre provides an inclusive and outward looking environment for research development, fostering interdisciplinary and multidisciplinary research to achieve maximum impact in real-world applications.

The ERC is still in its early stages. An international research journal has already been published, and academic staff is actively encouraged to take part in all areas of research. The ERC is a specific requirement of the University Grants Commission (UGC) in terms of approving the application that has been submitted by ESOFTE Metro Campus, to be recognised as a non-state degree awarding institution.

There is good linkage between research and teaching and the teaching team for computer science draws from ERC members.

Students are also able to develop their research skills which form a fundamental part of Level 6's curriculum. These skills enable students to distinguish and present appropriate evidentiary information in an argument. These skills are greatly valued by employers.

Staff members also engage with research into teaching and learning in Higher Education which feeds through to support learning in lectures and other forms of student engagement during contact time.

## **E. Support for Students and their Learning**

Students are supported by a highly qualified team of academic staff that includes individuals in the following roles:

- A Course Director to help students understand the programme structure
- A Module Leader for each module
- A Personal Tutor to provide academic and personal support

Additional support is provided by the following specialist staff:

- A Placement Tutor to give general advice on placements
- Technical Support to advise students on IT and the use of software
- A designated Programme Administrator
- English language support for international students

Matters outside the academic arena are supported by:

- Student support facilities that provide advice on issues such as finance, regulations, legal matters, accommodation, international student support etc.
- Disability and dyslexia student support
- Careers and Employability Service
- ESOFTE Student Council (ESC)
- An induction week at the beginning of each new academic session
- Staff Student Consultative Committee
- A virtual learning environment (VLE) available on the Campus' intranet

The students are introduced to all these mechanisms during induction sessions at the beginning of the top-up year. It is here that students first encounter the Campus' computer network, which includes their personal access to the ELMS and how to use it as a learning environment.

Students are expected to be involved in the development of their programme. On an individual level through meetings with their personal tutors at which they can discuss their academic progress, personal development and can seek advice on course and module choices in the light of their career aspirations. As a cohort, students can contribute to many aspects of programme evolution for example by student representation on committees including Staff Student Consultative Committees as well as by their formal and informal feedback such as end-of-module reviews.

### **Support for Academic Skills**

There is a Student Support Team to help students with any problem that has an effect on their studies. This can range from illness, problems writing an assignment, questions about academic regulations to serious confidential issues.

### **The Personal Tutoring Scheme (PTS)**

There exists a Faculty-wide student support system. It includes, for example, an ESOFTE counselling centre where students could seek advice without an appointment; also, they can email, or phone a designated number to get instant help. Students are assigned a member of the computing academic staff as their Personal Tutor (PT) which they retain for the full three or four-year duration of their time at Campus. The first contact between student and PT is during Induction Week for an introductory meeting and thereafter the following procedure is followed:

In the top-up year the principle focus is on graduation and employability and the PT scheme uses the capstone project module to promote PT-style discussions alongside regular project meetings

In the first weeks of term the PT's role is to welcome students, encourage them to reflect on their progress, and plan to make the most of their final year, exemplified by early deliverables in the project module. Throughout Level 6, the ESOFTE Career Guidance Unit team provides activities which the PT signposts for students, some of which are delivered within and linked explicitly to sessions and assignments in core modules.

At the beginning of the second teaching block, the PT meets with their tutees to discuss the opportunities for graduate study and employment and provide contact details for employers' reference requests. The final project is a key employability "artefact". Students can seek advice from their personal tutor or project supervisor who may be a different academic.

Both the Project Supervisor and Personal Tutor are able, in collaboration with ESOFTE Career Guidance Unit, to encourage students how best to present their project on their CV and at interview.

## **F. Ensuring and Enhancing the Quality of the Course**

The ESOF Metro Campus has several methods for evaluating and improving the quality and standards of its provision. These methods are actively monitored by the Kingston University. These include:

- External examiners
- Boards of study with student representation
- Annual Monitoring and Enhancement
- Periodic review undertaken at subject level
- Student evaluation including MEQs, level surveys and the NSS
- Moderation policies
- Feedback from employers

## **G. Employability and work-based learning**

Computing qualifications are amongst the most versatile and enable graduates to find employment in a wide spectrum of careers ranging from systems and business analysts, and software engineers, through to programmers and network specialists in a wide range of public and private sector industries.

ESOF curriculum, like Kingston University's, is largely applied in nature with many case studies chosen for their topicality and relevance to industry such as information systems design, programming, networking, and implementation issues. Working on case studies designed to simulate the working environment, typically in teams, gives students experience of applying their computing, information systems and networking methods and key skills to open-ended problems with complex solutions, and presenting their findings, including any limitations, in a professional manner. This mirrors the experience of computing professionals working in commerce and industry. To further set the material in context as well as inspire our students, leading practitioners from industry are invited to give guest lectures and workshops. Throughout the course students develop communication and interpersonal skills, learn time management and the value of prioritising and planning by involvement in the learning activities outlined in section F above.

In preparation for their future employment we make extensive use of industry standard software such as Oracle J Developer, Oracle SQL Developer, Eclipse, Adobe, MS Visual Studio, NetBeans etc. throughout the course. The use of the guided option routes enable students to specialise in their chosen domains.

### **Personal Development Portfolio (PDP)**

PDP is centred on student learning and development to encourage the student to become a more effective, independent and confident self-directed learner which appeals to employers. The student is responsible for engaging with the PDP process which is introduced during the induction period, to support them and enable them to reflect upon their learning and achievements, formulate study action plans and to plan their career development needs. Students create a personal record of learning containing evidence of their qualities, key skills, achievements and products (artefacts of their learning and assessments) to support industrial placement applications and future job applications or applications for graduate studies. The development plans are reviewed regularly for feedback from their personal tutor.

### **Student Employability**

Our programme is designed to embed employability skills within the curriculum at all levels and develop students' ability to recognise their personal and academic achievements and

career aspiration. This is fostered through the strand of professional environments modules built into the programme from the start. During these, students experience a transition from guided towards independent learning and career planning and development, through a series of sessions, offered under the auspices of ESOF Career Guidance Unit (ECGU), including; Professional Communication, Time and Self-Management and Identifying and Articulating Skills. There are also opportunities to perfect skills required to gain employment such as; CV writing, Psychometric Test and Using LinkedIn. These modules are shared with other courses in the School and students study and work in a multidisciplinary environment, developing their ability to communicate with non-subject specialists. In this way students gain insight into the true nature of commercial teamwork, harnessing a range of different talents and skills to tackle complex problems, preparing them for the workplace. As they progress students enhance their planning, teamwork and communication skills, and show evidence of these through oral and poster presentations and both individual and group written reports. Outputs from these (written reports, posters and records, e.g. as videos and/or slideshows), plus products such as computer programs or results from modelling exercises on real-world problems, can be collated into a portfolio which may be presented to potential employers. Furthermore, their personal development and career options and plans are discussed with their personal tutors at regular intervals throughout their studies, and guidance given as appropriate. This is in liaison with the ESOF Career guidance team, the Campus' Careers Service.

This theme culminates in the Level 6 capstone project module, which draws together the academic strands of the course. It also enhances students' employability skills in different ways, giving them an insight into what professionals do in graduate careers. Typically, the project involves the creation of an artefact relevant to the course, often with some new element or feature. Undertaking this type of activity gives students a taste of independent research, albeit supported by the supervisor, as they familiarise themselves with the real world situation and the techniques required to investigate it. In the project, students are encouraged to develop their critical thinking, creative and analytical skills, and gain experience and proficiency in technical writing. When choosing their Level 6 option choices and project topic, students are guided by their Personal Tutor regarding what possible choices best suit their career aspirations.

The experiences gained during, and their reports and presentations on, students' projects can provide a valuable case study to be cited in job applications and, if shortlisted, a focus for discussion and demonstration of professional skills in interviews. This has proved to be vitally important for several recent graduates, for whom giving an account of their project and the skills developed therein was crucial in securing a position of graduate employment during their interviews.

The ESOF course is vocational and curriculum developments are discussed with the Kingston University CSM School's Industrial Advisory Panel. Both CSM and ESOF have strong links with industry and with the professional body, the BCS Chartered Institute for IT. It hosts a local BCS chapter and several members of the CSM School are involved with the Institute at corporate level.

The Destinations and Leavers survey by the Kingston University indicates that graduates from this programme go onto the following careers:

Technical Analyst	Technical manager / Information Systems Manager	System support manager / Information Manager	Software developer / Software Engineer
Software	IT Consultant /	IT developer	Database administrator /



administrator	Systems Architect		IT systems administrator
Network support / Network Engineer executive	Analyst / Application Analyst / Business Analyst	Internet developer	Project manager
Web master	Analyst programmer	Web designer / Web Developer	Network analyst
Data Analyst / Information Analyst	Multimedia Programmer	UX Analyst	Communication Manager / Network Consultant

***Work-based learning, including sandwich courses and higher or degree apprenticeships***

N/A

**H. Other sources of information that you may wish to consult**

QAA Benchmark statement website: <https://www.qaa.ac.uk/quality-code/subject-benchmark-statements>

Professional or statutory body information: <http://www.bcs.org/>

Module guides

Student handbook

Guidance on Enterprise and Entrepreneurship (Draft)

<https://www.qaa.ac.uk/en/quality-code/advice-and-guidance/external-expertise>

Shadbolt review

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/518575/ind-16-5-shadbolt-review-computer-science-graduate-employability.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/518575/ind-16-5-shadbolt-review-computer-science-graduate-employability.pdf)

Hinchliffe, G. & Jolly A. (2009), "Employer Concepts of Graduate Employability", The Higher Education Academy, Subject Centre for Education (ESCalate), York

**I. Development of Course Learning Outcomes in Modules**

This table maps where course learning outcomes are **summatively** assessed across the modules for this course. It provides an aid to academic staff in understanding how individual modules contribute to the course aims, a means to help students monitor their own learning, personal and professional development as the course progresses and a checklist for quality assurance purposes.

Module Code		Level 6					
		C16415E	C16320E	C16100	C16245E	C16250	C16125
Knowledge & Understanding	A5			S			
	A4		S	S	S		
	A3			S	S		
	A1	S	S	S	S		
	A2	S		S			
Intellectual Skills	B5			S			
	B4	S	S	S			
	B1	S	S	S	S		
	B2	S	S	S			
	B3	S		S			
Practical Skills	C5			S			
	C4		S	S			
	C3	S	S	S			
	C2	S	S	S	S		
	C1		S	S			

Students will be provided with formative assessment opportunities throughout the course to practise and develop their proficiency in the range of assessment methods utilised.