

<p><b>Validated Programme Specification</b> <b>BSc (Hons) Computer Networks and Systems Support</b></p>
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1.	<b>Awarding Institution/Body</b>	University of Bolton
2.	<b>Teaching Institution</b>	Bradford College
3.	<b>Collaborating Organisations</b> <i>(include type)</i>	N/A
4.	<b>Delivery Location(s)</b>	David Hockney Building, Bradford College
5.	<b>Programme Externally Accredited by (e.g. PSRB)</b>	N/A - no external accreditation
6.	<b>Award Title(s)</b>	BSc (Hons) Computer Networks and Systems Support
7.	<b>UoB Faculty</b>	Games, Computing and IT
8.	<b>Additional Contributing Schools</b>	Not applicable
9.	<b>FHEQ Level</b> <i>[see guidance]</i>	4/5/6
10.	<b>Bologna Cycle</b> <i>[see guidance]</i>	NQF Level 6 - First cycle (end of cycle) qualifications
11.	<b>JACS Code and JACS Description</b>	G420 Networks and communications
12.	<b>Mode of Attendance</b> <i>[full-time or part-time]</i>	Full-time and part-time
13.	<b>Relevant QAA Subject Benchmarking Group(s)</b>	Computing
14.	<b>Relevant Additional External Reference Points</b> <i>(e.g. National Occupational Standards, PSB Standards)</i>	
15.	<b>Date of Production/Revision</b>	January 2017

16.	<b>Criteria for Admission to the Programme</b>	Typically 180 UCAS points and Grade C or better in GCSE Maths and English. Applications from candidates who do not meet these criteria but have experience in the subject area are welcomed.																										
17.	<b>Educational Aims of the Programme</b>  The overall aims of the programme are to: <ul style="list-style-type: none"> <li>• Provide a coherent learning experience that equips students with the technical, professional skills and transferable skills needed for employment</li> <li>• Enable students to understand, explore and analyse the body of knowledge related to Computer Networks and Systems Support</li> <li>• Provide an environment where students can explore current knowledge and thinking and develop the research skills required to respond effectively to the needs of a constantly changing industry</li> </ul>																											
18.	<b>Learning Outcomes</b>  The programme will enable students to develop the knowledge and skills listed below. <b>On successful completion of the programme, the student will be able to:</b> <table border="1" data-bbox="276 875 1410 1758"> <tr> <th colspan="2" data-bbox="276 875 1410 913"><b>Knowledge and Understanding</b></th> </tr> <tr> <td data-bbox="276 913 339 981">K1</td> <td data-bbox="347 913 1410 981">Plan, design and evaluate a negotiated, self-managed major project</td> </tr> <tr> <td data-bbox="276 981 339 1088">K2</td> <td data-bbox="347 981 1410 1088">Design and create a range of practical solutions that demonstrate a detailed and comprehensive knowledge of the skills, tools and techniques required for the development and maintenance of networked computer systems</td> </tr> <tr> <td data-bbox="276 1088 339 1155">K3</td> <td data-bbox="347 1088 1410 1155">Synthesise and critically appraise theory, skills and techniques and apply these to the development and maintenance of networked computer systems</td> </tr> <tr> <td data-bbox="276 1155 339 1223">K4</td> <td data-bbox="347 1155 1410 1223">Evaluate a range of theories, skills and techniques in order to solve complex problems.</td> </tr> <tr> <td data-bbox="276 1223 339 1330">K5</td> <td data-bbox="347 1223 1410 1330">Analyse the impact of the ethical, legal and security issues that face networked computer systems and make appropriate judgments as to how these issues can be addressed</td> </tr> <tr> <th colspan="2" data-bbox="276 1330 1410 1368"><b>Cognitive/Intellectual Skills</b></th> </tr> <tr> <td data-bbox="276 1368 339 1476">C1</td> <td data-bbox="347 1368 1410 1476">Synthesise, appraise and evaluate data and knowledge from a range of sources and use this to support the independent design and development decisions across a range of practical work</td> </tr> <tr> <td data-bbox="276 1476 339 1543">C2</td> <td data-bbox="347 1476 1410 1543">Evaluate a range of networked computer systems and build a coherent and logical argument that identifies how these could be further developed</td> </tr> <tr> <td data-bbox="276 1543 339 1610">C3</td> <td data-bbox="347 1543 1410 1610">Demonstrate flexibility when considering and applying a range of possible solutions to a complex problem</td> </tr> <tr> <th colspan="2" data-bbox="276 1610 1410 1648"><b>Practical/Professional Skills</b></th> </tr> <tr> <td data-bbox="276 1648 339 1715">P1</td> <td data-bbox="347 1648 1410 1715">Apply a range of skills and techniques that ensure that the legal, security and ethical issues facing a networked computer system are addressed</td> </tr> <tr> <td data-bbox="276 1715 339 1758">P2</td> <td data-bbox="347 1715 1410 1758">Work with increasing autonomy with a minimum of guidance and supervision</td> </tr> </table>		<b>Knowledge and Understanding</b>		K1	Plan, design and evaluate a negotiated, self-managed major project	K2	Design and create a range of practical solutions that demonstrate a detailed and comprehensive knowledge of the skills, tools and techniques required for the development and maintenance of networked computer systems	K3	Synthesise and critically appraise theory, skills and techniques and apply these to the development and maintenance of networked computer systems	K4	Evaluate a range of theories, skills and techniques in order to solve complex problems.	K5	Analyse the impact of the ethical, legal and security issues that face networked computer systems and make appropriate judgments as to how these issues can be addressed	<b>Cognitive/Intellectual Skills</b>		C1	Synthesise, appraise and evaluate data and knowledge from a range of sources and use this to support the independent design and development decisions across a range of practical work	C2	Evaluate a range of networked computer systems and build a coherent and logical argument that identifies how these could be further developed	C3	Demonstrate flexibility when considering and applying a range of possible solutions to a complex problem	<b>Practical/Professional Skills</b>		P1	Apply a range of skills and techniques that ensure that the legal, security and ethical issues facing a networked computer system are addressed	P2	Work with increasing autonomy with a minimum of guidance and supervision
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<b>Key Transferable Skills</b>	
<b>T1</b>	Develop a portfolio of work that will demonstrate a high level of skills and techniques to a potential employer
<b>T2</b>	Develop a considered and thorough action plan that is built upon an honest and realistic evaluation of the current skill set.
<b>T3</b>	Communicate clearly, fluently and persuasively to a range of academic, technical and commercial audiences
<b>T4</b>	Apply mathematical skills when solving open-ended enterprise addressing schemes and security challenges
<b>T5</b>	Evaluate individual and collective contributions to team work and identify strategies and techniques that will improve future performance

<b>19.</b>	<p><b>Key Learning &amp; Teaching Methods</b></p> <ul style="list-style-type: none"> <li>• Concepts, theory and principles related to computer networks and systems support are introduced through a series of lectures. These are then explored in depth through tutor led tutorials and student-led seminars. Workshops are used to support the development of practical skills</li> <li>• Independent learning is developed and supported through problem based learning and self-study. Teaching throughout the course uses relevant and timely scenarios to contextualise the concepts, theories, principles and technical skills</li> <li>• Transferable and professional skills are developed through assessment where students will be encouraged to reflect on their own learning and on their future development</li> <li>• Personal Development Planning is promoted and actively supported at each stage and forms part of the module learning outcomes</li> </ul>
<b>20.</b>	<p><b>Key Assessment Methods</b></p> <ul style="list-style-type: none"> <li>• Assessment is centred on the practical and professional skills required by the industry. Consequently, assessment focuses on the implementation of a practical solution to a specified problem. The process of research, analysis, evaluation and reflection that takes place in reaching this solution is used to assess cognitive, intellectual and academic skills</li> <li>• Assessment is seen as central to the promotion of student learning. A variety of assessment methods is used, the underlying principle being that the method chosen is both reliable and valid</li> <li>• Wherever possible one single assignment that meets all learning outcomes is provided for each module. This assignment is broken down into a series of tasks that provide formative feedback for students throughout the process.</li> <li>• Assignment briefs use an appropriate scenario that reflects the professional and technical skills required by the industry</li> <li>• Group work is used to promote transferable skills in appropriate modules and this group work forms part of the assessment process</li> <li>• Communication skills are developed through a range of delivery methods including presentation, demonstration, report, essay and discussion</li> </ul>

21.	<b>Programme Modules</b>					
	<b>NQF Level 4</b>					
	<i>Code</i>	<i>Title</i>	<i>Credits</i>	<i>Status</i>	<i>Non-Compensatable</i>	<i>Compensatable</i>
		Operating Systems, Hardware and Maintenance	20	Core		✓
		Introduction to Networks & Computer Security	20	Core		✓
		Introduction to Systems Support	20	Core		✓
		Networking Architecture, Standards and Addressing Schemes	20	Core		✓
		Supporting Operating Systems	20	Core		✓
		Emerging Technologies	20	Core		✓
	<b>NQF Level 5</b>					
	<i>Code</i>	<i>Title</i>	<i>Credits</i>	<i>Status</i>	<i>Non-Compensatable</i>	<i>Compensatable</i>
		Configuring and Maintaining Routing Environments	20	Core		✓
		Desktop Support Technician	20	Core		✓
		Helpdesk Management	20	Core		✓
		Enterprise Routing and Switching	20	Core		✓
		Systems Security	20	Core		✓
		Project Management for IT	20	Core		✓
	<b>NQF Level 6</b>					
	<i>Code</i>	<i>Title</i>	<i>Credits</i>	<i>Status</i>	<i>Non-Compensatable</i>	<i>Compensatable</i>
		Designing and Supporting Enterprise Networks	20	Core		✓
		Server Configuration and Administration	20	Core		✓
	Advanced Network Design and Testing	20	Core		✓	
	Employability Skills for Computer Graduates	20	Core		✓	
	Final Year Project	40	Core	✓		

22.

**Programme Structure**

Students may join the programme in September or January and follow the structure below:

<b>NQF Level 4</b>			
<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
Operating Systems, Hardware and Maintenance	20 Credit Points	Networking Architecture, Standards and Addressing Schemes	20 Credit Points
Introduction to Networks & Computer Security	20 Credit Points	Supporting Operating Systems	20 Credit Points
Introduction to Systems Support	20 Credit Points	Emerging Technologies	20 Credit Points
<b>NQF Level 5</b>			
<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
Configuring and Maintaining Routing Environments	20 Credit Points	Enterprise Routing and Switching	20 Credit Points
Desktop Support Technician	20 Credit Points	Systems Security	20 Credit Points
Helpdesk Management	20 Credit Points	Project Management for IT	20 Credit Points
<b>NQF Level 6</b>			
<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
Designing and Supporting Enterprise Networks	20 Credit Points	Employability Skills for Computer Graduates	20 Credit Points
Server Configuration and Administration	20 Credit Points	Final Year Project	40 Credit Points
Advanced Network Design and Testing	20 Credit Points		

In year one of the programme students will study the foundations of the subject area and equip themselves with the skills, knowledge and techniques that will prepare them for further study. Students are also introduced to the theories that underpin the development and support of networked computer systems. The Operating Systems, Hardware and Maintenance and Networking Architecture, Standards and Addressing Schemes modules will equip the student with the core skills required for these disciplines whilst the practical work undertaken will enable them to consider the needs of both the enterprise and the home user when developing solutions. The

Introduction to Systems Support module will introduce students to the principles that underpin a typical systems support provision whilst the Supporting Operating Systems module will focus this conceptual knowledge by dealing with operating systems issues in particular. This mix of concept, theory and practice will provide the foundation for the independent development of computer networks and support systems, using appropriate technologies, operating systems, utilities, principles and practices later in the course.

Year two focuses on the planning, development and implementation of a range of networked computer system based solutions. Students will use problem solving techniques and demonstrate how current theories have been applied in arriving at an appropriate solution. The Project Management for IT module reinforces this contextualisation through the planning and development of a small scale group project as well as providing students with the project management, organisational and time-management skills essential for success on Year 3.

Year 3 develops existing technical skills to an advanced level and requires students to analyse and evaluate enterprise networks and support systems through the research and synthesis of a range of sources. The Server Configuration and Administration module contextualises these analytical and technical skills to the build and maintenance of a Client / Server environment.

The year culminates in a significant individual project. This project provides students with the opportunity to showcase technical, academic and time-management skills, along with their ability to work independently to a high professional standard. The Employability Skills for Computer Graduates module reinforces this independence by asking students to research, reflect and plan for future employment, personal development and life-long learning.

### Part Time

Part-time study on the BSc (Hons) Computer Networks and Systems Support will be flexible and, as far as possible, tailored to the needs of individual students. A typical structure would be as follows:

<b>Level 4</b>			
<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
Operating Systems, Hardware and Maintenance	20 Credit Points	Networking Architecture, Standards and Addressing Schemes	20 Credit Points
Introduction to Systems Support	20 Credit Points	Supporting Operating Systems	20 Credit Points
<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
Introduction to Networks & Computer Security	20 Credit Points	Emerging Technologies	20 Credit Points
<b>Level 5</b>			

	<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
	Configuring and Maintaining Routing Environments	20 Credit Points	Enterprise Routing and Switching	20 Credit Points
	Desktop Support Technician	20 Credit Points	Systems Security	20 Credit Points
	<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
	Helpdesk Management	20 Credit Points	Project Management for IT	20 Credit Points
	<b>Level 6</b>			
	<b>Semester 1 (for September starters or Semester 2 for January starters)</b>		<b>Semester 1 (for January starters or Semester 2 for September starters)</b>	
	Designing and Supporting Enterprise Networks	20 Credit Points	Employability Skills For Computer Graduates	20 Credit Points
	Advanced Network Design and Testing	20 Credit Points	Server Configuration and Administration	20 Credit Points
	<b>Semester 3</b>			
	Final Year Project 40 Credit Points			
<b>23.</b>	<b>Support for Students and Their Learning</b>			
	<ul style="list-style-type: none"> <li>Teaching is delivered by an experienced team of lecturers each of whom has expertise in a range of specialist subjects (see course proposal, staff CVs and course handbook documents).</li> <li>Induction week comprises of a full programme of events designed to welcome to the students to the College, and make them familiar with their new surroundings. The process of establishing effective relationships between students and the teaching team begins at this point and activities are geared towards establishing and promoting a cohort identity. All students are provided with a Student and Course Handbook and supported in gaining access to on-line resources.</li> <li>Extensive use is made of a VLE. This has comprehensive support material at course and module level as well as additional learning resources and links to off-site study support. Independent learning is encouraged through the use of student forums, blogs and message boards. These are also used to provide students with regular and timely formative feedback.</li> <li>At the start of each academic year all students undertake a numeracy and literacy skills test. The results of these are analysed and allow for learner specific additional support to be offered where required.</li> <li>The School of Computing is equipped with hardware and software that reflects the standards required by industry. Specialist software is provided. Hardware and Software requirements are reviewed annually (see course proposal document).</li> </ul>			

	<ul style="list-style-type: none"> <li>• A tutorial system is in place that provides academic and pastoral support to all students. Staff are available on both a walk-in and by-appointment basis. Staff are also contactable via email and the VLE.</li> <li>• The College have extensive library facilities including a wide range of on-line resources. Library resources are reviewed by the School on an annual basis. Group study areas are available within the College library.</li> <li>• The Teaching Team operates a series of additional workshops throughout the academic year. A specialist tutor is available at each of these to offer support and guidance to students.</li> </ul>
24.	<p><b>Distinctive Features</b></p> <p>By combining the study of systems support with networking, this programme aims to provide students with a core set of enterprise support skills and abilities, complemented by sound practical knowledge of the technology underpinning this. The programme aims to produce graduates who are strong technically, equipped with a combination of support and network skills that are highly sought after by the computing industry. This is increasingly more evident in employers' insistence on successful applicants having a range of vendor qualifications on their CV's, alongside more traditional academic qualifications. This is borne out by vendors such as Microsoft and Cisco providing specific training programmes and in what Cratec IT Limited has said regarding the technical certification that graduates need for employment. (See supporting consultation evidence file).</p> <p>The range of modules offered allows the learner to specialise in a particular area of interest and to evidence this specialism in the Final Year Project. The practical focus of the modules allows learners to develop a portfolio of work during their three years of study that will enable them to showcase their skills to prospective employers. The development of this portfolio is supported through the tutorial system.</p> <p>Graduates will be equipped with the necessary skills to meet Industry needs for practitioners that understand the key aspects of computer networks and systems support, who recognise how industry competitiveness and effective organisation are critically dependant on network performance and effective use of network systems.</p>



## Stage Outcomes (Undergraduate Awards only)

Please give the learning outcomes for interim stages of the programme for each named pathway or award, e.g. for Honours degrees programme, Stage/Level 4(1) outcomes, and Stage/Level 5(2) outcomes, and for Foundation Degrees, Stage 1/Level 4 and programme outcomes. Separate Stage/Level 6(3) outcomes are not required as it is assumed that these are consistent with the programme outcomes in the programme specification. (If there have been no significant changes made to the programme outcomes as part of the review, then the stage outcomes from the original programme documentation can be included). Please add additional rows where necessary.

**Key:** K = Knowledge and Understanding C = Cognitive and Intellectual P = Practical Professional T = Key Transferable [see programme specification]

No.	Programme Outcome	Stage/Level 5(2)	Stage/Level 4(1)
<b>K1</b>	Plan, design and evaluate a negotiated, self-managed major project	Consider a range of more complex problems associated with the development of computer networks and support systems and select appropriate research methods for investigating these	Identify and explain the key concepts and principles associated with the development of a computer network and its inherent support system
<b>K2</b>	Design and create a range of practical solutions that demonstrate a detailed and comprehensive knowledge of the skills, tools and techniques required for the development and maintenance of networked computer systems	Describe in detail and deploy the tools, techniques, principles and underlying theories associated with the development of computer networks and support systems	Identify, describe and demonstrate the range of skills required to develop computer networks and support systems
<b>K3</b>	Synthesise and critically appraise theory, skills and techniques and apply these to the development and maintenance of networked computer systems	Relate the findings of research and the analysis of theories, ideas and opinions to practical activities	Employ a suitable range of research methods to investigate a given problem

<b>K4</b>	Evaluate a range of theories, skills and techniques in order to solve complex problems.	Critically review and analyse a range of theories, ideas and opinions related to the development of computer networks and support systems	Demonstrate awareness the importance of research both for academic success and of the role that it plays in industry
<b>K5</b>	Analyse the impact of the ethical, legal and security issues that face networked computer systems and make appropriate judgments as to how these issues can be addressed	Describe, in detail, the legal, security and ethical issues associated with the development of computer networks and support systems and demonstrate through practical activities how these issues can be effectively addressed	Identify the security issues associated with the development of networked computer systems and discuss and describe the legal, social and commercial implications of these
<b>C1</b>	Synthesise, appraise and evaluate data and knowledge from a range of sources and use this to support the independent design and development decisions across a range of practical work	Employ data and evidence from a range of sources to build a balanced and logical argument to support the planning and development of practical tasks	Consider the range and scope of information available to networking and systems support practitioners and describe the validity and integrity of these
<b>C2</b>	Evaluate a range of networked computer systems and build a coherent and logical argument that identifies how these could be further developed	Demonstrate an ability to integrate new ideas and thinking within the planning and development of practical tasks	Record and describe data and evidence and use this to justify the choice of software, hardware and development platforms
<b>C3</b>	Demonstrate flexibility when considering and applying a range of possible solutions to a complex problem	Analyse given problems and justify the selection of appropriate techniques to provide solutions	Propose appropriate solutions to a range of simple problems and employ the tools and techniques required to reach this solution
<b>P1</b>	Apply a range of skills and techniques that ensure that the legal, security and ethical issues facing a networked computer system are addressed	Design and develop a range of more complex networked computer systems applications that take into account ethical and legal issues	Identify the data protection, security and legal issues related to a simple problem and employ the tools and techniques required to resolve these issues

<b>P2</b>	Work autonomously with a minimum of guidance and supervision	Show evidence of an increasing ability to work independently both as an individual and as part of a team	Demonstrate an ability to work effectively and in a timely manner both as an individual and as part of a team
<b>T1</b>	Develop a portfolio of work that will demonstrate a high level of skills and techniques to a potential employer	Use a range of different software packages in the development of computer networks and associated support systems, demonstrating an increasing awareness of the tools and techniques available	Recognise the importance of a portfolio for those seeking employment as a computer network and systems support practitioner and plan for the development of this
<b>T2</b>	Develop a considered and thorough action plan that is built upon an honest and realistic evaluation of the current skill set.	Reflect on formative and summative feedback and contextualise this in line with future career aspirations	Reflect on the formative and summative feedback received and use this to identify personal strengths and weakness
<b>T3</b>	Communicate a coherent argument clearly, fluently and persuasively to a range of academic, technical and commercial audiences	Communicate information (using a range of media) to different audiences and evaluate the effectiveness of both the content and the method chosen	Identify and describe the different styles of writing (technical, academic and user-friendly) that are required both for study and commercial purposes
<b>T4</b>	Analyse a range of open-ended enterprise addressing schemes and security challenges and identify and apply the appropriate mathematical skills needed to solve these	Apply more complex mathematical skills to solve a range of logical addressing and security problems	Identify and employ the underlying mathematical principles associated with computer networks and their support
<b>T5</b>	Evaluate individual and collective contributions to team work and identify strategies and techniques that will improve future performance	Apply theoretical approaches to team work and use this to evaluate both individual and collective contribution	Engage in team activities and describe the team roles needed to successfully develop, support and maintain a computer network

## Map of Outcomes to Modules

Please provide a map for each named pathway or separate award. Insert outcomes key across the top of each column, adding in additional columns where necessary, insert module names in the left of the grid and place an "A" in the box where the programme outcome is assessed.

**For Undergraduate programmes please provide a map for each Stage, e.g. Stages 1 and 2 and programme outcomes for Honours degrees, and Stage 1 and programme outcomes for Foundation Degrees.**

Module Name	Outcome Key														
	K1	K2	K3	K4	K5	C1	C2	C3	P1	P2	T1	T2	T3	T4	T5
Operating Systems, Hardware and Maintenance	A	A	A	A		A		A		A	A				
Introduction to Networks & Computer Security	A	A	A	A		A		A		A			A		
Introduction to Systems Support	A	A	A	A		A			A	A			A		A
Networking Architecture, Standards and Addressing Schemes	A	A	A			A		A		A	A			A	
Supporting Operating Systems	A	A	A	A		A		A		A	A				
Emerging Technologies	A		A	A	A	A	A	A	A			A	A		

Configuring and Maintaining Routing Environments	A	A	A	A		A		A		A	A				
Desktop Support Technician	A	A		A	A	A		A		A	A				
Helpdesk Management	A	A	A	A		A		A		A	A	A			A
Enterprise Routing and Switching	A	A	A	A		A		A		A	A				
Systems Security		A		A	A	A	A	A	A					A	
Project Management for IT	A	A					A	A		A	A		A		A
Designing and Supporting Enterprise Networks		A	A	A		A	A	A		A	A				
Server Configuration and Administration		A	A	A		A	A	A		A	A				
Advanced Network Design and Testing		A		A	A	A		A	A					A	A

Employability Skills for Computer Graduates			A		A		A		A	A	A	A	A		A
Final Year Project	A	A	A			A	A		A	A	A		A		

## Assessment Chart

Where there are more than one components of assessment, please give details of both as separate bullet points within the box.

Module Name	Formative Assessment Type and Week of Completion	Summative Assessment Type and Week of Submission
Operating Systems, Hardware and Maintenance	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 60% practical assessment and 40% written report. Students will complete the practical work by week 10 and the report by the end of week 13.
Introduction to Networks & Computer Security	Students will be asked to complete a series of practical and theoretical tasks and compile them into a report. This will showcase the design and build of a small network. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment comprising of one component – 100% report that is supported by a completed network build. Students will complete this by the end of week 14.
Introduction to Systems Support	Students will be asked to individually complete a research report that investigates typical support systems practices. Working in groups, they will use their research to develop some systems support documentation for a given scenario. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 50% research report and 50% group task. Students will complete the research task by week 9 and the group tasks by the end of week 13.
Networking Architecture, Standards and Addressing Schemes	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 60% practical assessment and 40% written report. Students will complete the practical work by week 10 and the report by the end of week 13.

Supporting Operating Systems	Students will be asked to individually complete a research report that investigates typical support systems practices. Working in groups, they will use their research to develop some systems support documentation for a given scenario. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 50% research report and 50% practical group task. Students will complete the research task by week 9 and the group tasks by the end of week 13.
Emerging Technologies	Students will be asked to complete an essay that discusses and analyses an appropriate emerging technology. Then, they will reflect on their current abilities and identify skills that they need in order to become a practitioner in the emerging technology discussed in their report. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 70% essay and 30% evaluative task. Students will complete the essay by week 11 and the evaluative task by week 14.
Configuring and Maintaining Routing Environments	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 70% practical assessment and 30% written report. Students will complete the practical work by week 11 and the report by the end of week 13.
Desktop Support Technician	Students will be asked to complete a research report that investigates typical support systems practices. Then, they will use their research to develop some systems support documentation for a given scenario. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 50% research report and 50% practical task. Students will complete the research task by week 9 and the practical tasks by the end of week 13.



Helpdesk Management	Students will be asked to individually complete a research report that investigates and appraises typical helpdesk practices. Working in groups, they will use their research to develop some helpdesk documentation for a given scenario. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 50% research report and 50% practical task. Students will complete the research task by week 9 and the group tasks by the end of week 14.
Enterprise Routing and Switching	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 60% practical assignment and 40% written report. Students will complete the practical work by week 10 and the report by the end of week 13.
Systems Security	Students will be asked to complete a series of practical and theoretical tasks and compile them into a report. This will showcase the design and deployment of a secure enterprise network. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment made up of one component – 100% report that is supported by a completed network build. Students will complete this by the end of week 13.
Project Management for IT	Students will be asked to complete and present a group project. This project will showcase the technical skills being delivered within the programme. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 50% group project and 50% exam. Students will complete the project by week 11 and the exam by the end of week 12.
Designing and Supporting Enterprise Networks	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorials	A single assignment broken down into two components – 70% practical assessment and 30% written report. Students will complete the practical work by week 11 and the report by the end of week 13.

Server Configuration and Administration	Students will be asked to complete a series of practical tasks in order to build up a portfolio of work. The report will then comment on the practical work completed. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 70% portfolio and 30% written report. Students will complete the portfolio by week 11 and the report by the end of week 13.
Advanced Network Design and Testing	Students will be asked to work in groups to design and test a network prototype to meet a given business need. They will then appraise and critically evaluate what they have achieved with a view to make improvements. The case studies completed will help to underpin this activity. Formative Feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 80% design and testing report supported by a working prototype and 20% case study tasks. Students will complete the case studies by week 8 and the report and working prototype by the end of week 14.
Employability Skills for Computer Graduates	Students will build a portfolio of evidence throughout the module. Formative feedback will be given on a weekly basis during tutorial sessions.	One component: evidence file (100%), broken down into a number of elements.
Final Year Project	Students will undertake and complete a significant project in their chosen area of study. Formative feedback will be given on a weekly basis during tutorial sessions.	A single assignment broken down into two components – 40% research, project specification and design document and 60% project deployment, demonstration and evaluation. The project will be completed and presented by week 14.