

1 PROGRAMME SPECIFICATION - BSc (Hons) COMPUTING TECHNOLOGY

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| 1. Qualification BSc (Hons) | 2. Programme Title Computing Technology | 1. UCAS Code G600 (3 year) G601 (3.5 year) | 4. Programme Type Modular Single, Major and Joint Full time and Part time |
| 5. Main Purposes and Distinctive Features of the Programme To provide: <ol style="list-style-type: none"> i. skill in management of heterogeneous computer installations including installing the operating system, installing applications and optimising the performance of the system ii. ability to select and configure appropriate computer hardware and software to enhance and optimise a computer system for a particular purpose such as high reliability or fast response iii. skill in development of advanced multimedia-based web pages (depending on options selected) <p>Special Features</p> <p>A practically orientated pathway with a high content of relevant laboratory work Professional accreditation from The British Computer Society (BSC) as meeting the academic requirements for full membership of BCS. Professional accreditation is an attractive feature to many employers since it validates the academic programme as providing a qualification recognised by the professional body. Note: In this case professional accreditation only applies to on campus students. Not students studying via off campus centres.</p> | | | |
| 2. What a Graduate should know and be able to do on completion of the Programme <p style="text-align: center;">(Objectives and Learning Outcomes)</p> | | | |
| <i>Knowledge and understanding in the context of the subject</i> Graduate will: <ol style="list-style-type: none"> i. understand principles of operation of networked computer installations ii. know the main architectures and components of networked computer systems iii. have adequate breadth of skill and knowledge to ensure flexibility iv. display an appreciation of software development | | <i>Subject-specific practical/professional skills</i> Ability to: <ol style="list-style-type: none"> i. use a range of computer facilities ii. install the operating software for a networked computer system iii. install applications and optimise performance iv. undertake administration and maintenance of a heterogeneous computer installation v. display a range of skills in computing such as web site development, networking, enterprise systems, depending on options taken | |
| <i>Cognitive skills in the context of the subject</i> Ability to: <ol style="list-style-type: none"> i. evaluate and select hardware and software for a computer system to achieve a specified objective ii. evaluate a networked computer system iii. identify and solve problems in the | | <i>Other skills (e.g. key/transferable) developed in subject or other contexts</i> <ol style="list-style-type: none"> i. capacity to pursue an independent investigation using learning resources and practical evaluation ii. communicate effectively verbally and in writing iii. use a range of computer (IT) facilities iv. independent study, self appraisal | |

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| operation of computer systems iv. make practical application of information/knowledge v. think critically | (reflection) and goal setting v. time management and organization of study time vi. literature review skills vii. employability skills |
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7. Qualities, Skills & Capabilities Profile

The educational and training goals of the programme seek to develop and demonstrate the following qualities, skills, capabilities and values in its graduates

| Cognitive | Practical | Personal & Social | Other |
|---|--|---|---|
| Design/Synthesis; Evaluation of systems/ideas; Applied problem solving; Analysis of information; | Computer hardware and software installation, troubleshooting and optimisation; | Self motivation Organisation and time management | Communication: Technical report-writing; Investigation; information gathering; |

8. Subjects Studied, Levels, Credits and Qualifications

3 years full-time; 4-5 years part-time; organised on 2 semesters per year basis.

Part 1 comprises 6 level 1 20 credit modules, or equivalent

Part 2 comprises 6 level H2 20 credit modules, or equivalent AND

6 level H3 20 credit modules, or equivalent

| | Core Modules | Dissertation/Project | Optional Modules |
|--|---|--|---|
| <i>Bachelor Honours degree - 360 credits</i> | | | |
| Part 2 Level 3 | Professional Issues in Computing; Advanced Operating Systems; Enterprise Systems. | 40 credit individual project (for single subject pathway) involving self-managed integration, extension and practical application of knowledge | Electronic Commerce; Web and Systems Based Programming; Network Management; Internet Security; Network Design and Integration; |
| <i>HE Diploma - 240 credits</i> | | | |
| Part 2 Level 2 | Unix; Service Management; Computer Security; Project Skills; Career Development; | | Database Theory and Practice; Internet 2; Wireless Networking; Network Administration; Network Architecture; Wide Area Networks. |
| <i>HE Certificate - 120 credits</i> | | | |
| Part 1 Level 1 | Core Skills; Internet 1; Introduction to Programming; Networking Basics; Routing Basics; Network Operating Systems | | |

9 Learning , Teaching and Assessment Strategy

Learning and Teaching Methods

Practical skills are acquired by students through laboratory sessions, demonstrations and activity-based assignments. Active learning is promoted via seminars and guided study supported by lectures, videos and tutorials

Assessment Methods

Assessment tasks are linked to objectives (learning outcomes) of each module and are normally completed by the end of each module. Types of assessment include: written examinations (unseen or open-book), essays, assignments, projects, case study analyses, in-class tests (practical or written), demonstration, interview

Assessment Classification System

Pass mark for individual modules = 40%
Final degree classification based on aggregated performance in Part 2 modules

Honours Classification Bands

| | | |
|---------------|---|------------------------------|
| 70% and above | - | First class |
| 60% - 69% | - | Upper second class |
| 50% - 59% | - | Lower second class |
| 40% - 49% | - | Third class |
| 30% - 39% | - | Borderline/ consideration |

for

degree

unclassified

10. Other Information

Date Programme first offered

September 1998

Admission Criteria

Standard Entry

2 'A' level passes and A to C passes in English, Mathematics and a science subject a GCSE

Acceptable alternatives to the 2 'A' level passes are:

BTEC diploma/certificate

Advanced GNVQ (merit)

NVQ level 3

Foundation pass

Scottish or Irish leaving certificate

(including 2 higher level passes)

Non-standard Entry

Experience and Interview

Other cases dealt with by admissions tutor on an individual basis

Indicators of Quality and Standards

- i. validated by panel with external subject specialists
- ii. external examiner moderates part 2 assignments and examinations

MAPPING OF LEARNING OUTCOMES TO MODULES

1.1 BSc (Hons) Computing Technology

| LEARNIG OUTCOME | LCT1000 | LCT1019 | LCT1014 | CST1205 | LCT1023 | LCT1020 | LCT2519 | LCT2516 | LCT2517 | LCT2514 | LCT2515 | LCT2504 | LCT2506 | LCT2509 | LCT2518 | CST2503 | LCT2512 | CST3104 | LCT3009 | LCT3012 | CST3007 | LCT3011 | LCT3008 | LCT3007 | LCT3013 | LCT3001 |
|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| K1 | | X | X | | | X | | | | | | X | | | X | | X | X | X | | | | | | | |
| K2 | | X | X | | | | | | | | | | | | X | | X | X | X | | X | | | | | |
| K3 | X | | X | | | | X | X | X | | | X | X | | X | X | X | X | | X | | X | X | | | |
| K4 | | | | X | | | | | | | | | | | | | | | | | | | X | | | |
| S1 | X | | | X | | | X | | | | | X | | | | X | | X | | | | | | | | |
| S2 | | | X | | | | | | | | | X | | | | | | | X | | | | | | | |
| S3 | | | X | | | | | | | | | | | X | | | | | X | | | | | | | |
| S4 | | | X | | | | | | | | X | | X | X | X | | | | X | | X | | | | X | |
| S5 | | | | | | X | X | X | X | | | X | X | | | X | | X | X | X | | X | | | | |
| C1 | | X | | | | X | | | X | | | | | | | X | | X | X | X | | X | | X | | |
| C2 | | | | | | | | | | | X | | | | | | | | X | | X | | | | X | |
| C3 | | | X | | | | | | X | | X | | | | X | | | X | X | X | | X | | | X | |
| C4 | X | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | | X | X | | | X |
| C5 | | | | X | | | | | X | X | | | | | X | | | | | | | X | | | | X |
| O1 | X | | X | X | | | | | X | | X | X | | | | | X | | X | | | X | X | | | X |
| O2 | X | | | X | | | | | X | | X | | | | X | | | | X | | X | X | | | | X |
| O3 | X | | X | | | | | | | | X | X | | | | | X | | X | | X | | | X | | |
| O4 | | | | X | | | | | X | X | | | | | | | | | | | | | | | | X |
| O5 | | | | X | | | | | X | | | | | | | | | | | | | | | | | X |
| O6 | | | | | | | | | X | | | | | | X | | | | | | | | | | | |
| O7 | | | | | | | | | | X | | | | | | | | | | | | | | | | |

Kn, Sn, Cn, On are Knowledge, Subject-specific, Cognitive and Other learning outcomes respectively. Refer to the Programme Specification for a definition of each learning outcome.

Core modules are shown in bold. An X at a row/column intersection indicates that the specified module supports the specified learning outcomes

