

Programme specification

(Notes on how to complete this template are provide in Annexe 3)

1. Overview/ factual information

1. Overview/ factual information	lion	
Programme/award title(s)	Foundation Degree in Cyber Security and Digital Forensics	
Teaching Institution	South Eastern Regional College	
Awarding Institution	The Open University (OU)	
Date of first OU validation	11/05/22	
Date of latest OU (re)validation	N/A	
Next revalidation		
Credit points for the award	120 credits at Level 4 120 credits at Level 5 Total – 240 credit points - FD	
UCAS Code	N/A	
HECoS Code	N/A	
LDCS Code (FE Colleges)	N/A	
Programme start date and cycle of starts if appropriate.	01/09/2022	
Underpinning QAA subject benchmark(s)	Subject Benchmark Statement – QAA Computing (2019)	
Other external and internal reference points used to inform programme outcomes. For apprenticeships, the standard or framework against which it will be delivered.	Higher Education Credit Framework for England: Advice on Academic Credit Arrangements (2021) SEEC Credit Level Descriptors (2021)	
Professional/statutory recognition		
For apprenticeships fully or partially integrated Assessment.		
Mode(s) of Study (PT, FT, DL, Mix of DL & Face-to-Face) Apprenticeship	PT, FT, Face to Face	
Duration of the programme for each mode of study	2 Years Full Time 3 Years Part Time	
Dual accreditation (if applicable)	N/A	



Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

More detailed information on the learning outcomes, content, and teaching, learning and assessment methods of each module can be found in student module guide(s) and the students handbook.

The accuracy of the information contained in this document is reviewed by the University and may be verified by the Quality Assurance Agency for Higher Education.

2.1 Educational aims and objectives

The Foundation Degree in Cyber Security and Digital Forensics is designed to fulfil the following aims:

- To provide a programme of study that will equip individuals with the skills, knowledge and understanding appropriate for employment within the cyber security sector.
- To provide industrial experience through project based learning teaching strategies and the work based learning module which will build student skills and prepare them for employment and further study.
- To develop the synergy between practical and theoretical aspects of cyber security and digital forensics activities.
- To support the students in the development of interpersonal skills and to be able to take responsibility for their own professional development.
- To enable the students to show enterprise and creativity skills.
- To allow progression onto an Honours Degree in this, or a related area.
- To support and develop the knowledge pool of computing practitioners in cyber security and digital forensics by providing suitably skilled computing graduates.
- To produce graduates who can make a significant contribution to their chosen profession.
- To highlight the importance of professional, moral, ethical, and legal issues specific to cyber security and digital forensics.

Date of production/revision of		
this specification		

March 2022

2.2 Relationship to other programmes and awards

(Where the award is part of a hierarchy of awards/programmes, this section describes the articulation between them, opportunities for progression upon completion of the programme, and arrangements for bridging modules or induction)



SERC currently offers courses from Level 2 to Level 5 in Computing. It is expected that the student cohorts which currently enrol on the Level 3 programmes will be attracted by the opportunity to study locally for a university accredited Foundation Degree in Cyber Security and Digital Forensics.

SERC also offers a broad range of industrial certified computing courses (e.g., Microsoft and Cisco certification) along with University Access Courses. The Foundation Degree in Computing provides a suitable progression opportunity for both groups.

Where students have a desire to sit professional certification exams, they would be required to personally make all the arrangements at their own expense.

This programme has the opportunity for progression upon completion of the course to enter the BSc Hons Cyber Security and Digital Forensics (Top-up) or the BSc Hons Cloud Computing Technologies (Top-up), which are also being validated at SERC.

2.3 For Foundation Degrees, please list where the 60 credit work-related learning takes place. For apprenticeships an articulation of how the work based learning and academic content are organised with the award.

There will be a 40-credit work-based learning module in the Year 2, 2nd Semester of the programme for full time learners and Year 3, 2nd Semester for the part time learners on the course.

SERC utilities Project Based Learning within the college and this will be included in all modules of the programme. This allows the students to demonstrate a wide range of meta skills through the use of real world projects throughout all modules to give an industry focus while also demonstrating an understanding of their learning.

2.4 List of all exit awards

Certification of Higher Education in Cyber Security and Digital Forensics – requires a minimum of 120 credits at level 4

Foundation Degree in Cyber Security and Digital Forensics – requires 240 credits (a minimum of 120 credits must be at level 5)



3. Programme structure and learning outcomes (The structure for any part-time delivery should be presented separately in this section.)

There will be two intake periods per annum. Learners enrolling during intake period one will commence study in September with learners enrolling during intake period two commencing study in January.

September Intake - Full Time

Programme Structure - LEVEL 4 (Full time)					
Compulsory modules	Credit points	Optional modules		Is module compensatable?	Semester runs in
Computation Mathematics	20			Yes	1
Computer Systems	20			Yes	1
Programming Fundamentals	20			Yes	1
Incident Response	20			Yes	2
Web Technologies and Applications	20			Yes	2
Network Infrastructure	20			Yes	2



January Intake - Full Time

Programme Structure - LEVEL 4 (Full time)					
Compulsory modules	Credit points	Optional modules		Is module compensatable?	Semester runs in
Computational Mathematics	20			Yes	2
Computer Systems	20			Yes	2
Programming Fundamentals	20			Yes	2
Incident Response	20			Yes	1
Web Technologies and Applications	20			Yes	1
Network Infrastructure	20			Yes	1



September Intake - Part Time

Programme Structure - LEVEL 4 (Part Time and HLA)					
Compulsory modules	Credit points	Optional modules	Credi t point s	Is module compensatable?	Semester runs in
	20			Yes	Year 1
Computational Mathematics					Semester 1
	20			Yes	Year 1
Computer Systems					Semester 1
•	20			Yes	Year 1
Programming Fundamentals					Semester 2
Incident Response	20			Yes	Year 1
·					Semester 2
Web Technologies and Applications	20			Yes	Year 2
<u> </u>					Semester 1
Network Infrastructure	20			Yes	Year 2
					Semester 1



January Intake - Part Time

Programme Structure - LEVEL 4 (Part Time and HLA)					
Compulsory modules	Credit points	Optional modules	Credi t point s	Is module compensatable?	Semester runs in
	20			Yes	Year 1
Computational Mathematics					Semester 2
	20			Yes	Year 1
Computer Systems					Semester 2
	20			Yes	Year 1
Programming Fundamentals					Semester 1
Incident Response	20			Yes	Year 1
·					Semester 1
Web Technologies and Applications	20			Yes	Year 2
5 11					Semester 1
Network Infrastructure	20			Yes	Year 2
					Semester 1

Intended learning outcomes at Level 4 are listed below:



Learning	Outcomes -	- LEVEL	4

3A. Knowledge and understanding

Learning outcomes:

A1 use essential programming theories and concepts which underpin software development methodologies
A2 apply a knowledge of key computer hardware, architecture, peripheral devices, processor speed and capacity, computer networks, systems software, and distributed computing

A3 demonstrate a knowledge of key mathematical skills in computing, processing of information, formal methods and statistical techniques to analyse data in the computing industry

A4 develop practical skills to underpin industrial practice in the development of computer systems

A5 show an awareness of professional, moral, ethical and legal issues which underpin the computing industry

Learning and teaching strategy/ assessment methods

Learning and Teaching Methods:

Subject-related qualities are acquired mainly through lectures, tutorials, seminars, practical-based exercises, directed reading, videos, IT-based resources, case studies, virtual learning environment (VLE) integration and experiential learning. Tutorials promote reflective learning and the development of generic skills. Project based learning and work based learning also provide vehicles for learning and teaching.

Exploration, analysis, and evaluation of industry practice will enable learners to work on academic writing skills, make judgements and develop arguments pertaining to the cyber security and digital forensics industry while expanding their knowledge and understanding at Level 4. This familiarity of terminology and context at Level 4 will form the basis of their knowledge and understanding for Level 5.

Assessment Methods:

Testing the knowledge base is principally through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations.



<u>Learning Outcomes – LEVEL 4</u>		
3A. Knowledge	e and understanding	
	Assessment strategies offer students clear guidance regarding future development. Self-reflection constitutes an influential part of formative assessment. Summative assessment provides learners with clear and concise feedback to embed good practice in future knowledge acquisition. It also informs learners how to improve and expand their knowledge in continuing studies, particularly as they move from Level 4 to Level 5 and beyond.	
3B. Cognitive skills		

Learning outcomes: Learning and teaching strategy/ assessment methods B1 use subject specific facts, principles, and concepts **Learning and Teaching Methods:** Learners are challenged to develop their cognitive skills by developing arguments and hypotheses based upon the scenarios B2 interpret data and text in developing computing solutions they encounter. They will explore diverse topics and develop a critical analysis of their findings. B3 apply different approaches to solving problems Intellectual qualities are developed mainly through lectures, seminars, B4 assess developed computer systems tutorials, assessments, practical's, experimental work, projects, and independent learning. Students will be presented with briefs (live where possible) that utilise Project-Based Learning, a student-centred pedagogy where students will learn through the experience of solving an industry-defined problem. This approach enables students to develop their meta skills



3B. Cognitive skills

and subject specific qualities. This will create contagious energy among students to develop a deeper understanding of the subject and quest for further knowledge and skills through active learning.

At Level 4 students, will be introduced to fundamental practices across the industry that they will further build on and analyse at Level 5.

Assessment Methods:

Learners will be assessed on their ability to critique and evaluate their work. They will develop their knowledge using independent thinking skills and produce recommendations based upon and justified through supporting literature.

The assessment focuses on the coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations. Some of these skills are assessed in formative and summative submissions.

Assessment strategies offer students clear guidance concerning future development. Self-reflection and peer evaluation constitute an important part of formative assessment.



3C. Practical and professional skills			
Learning outcomes:	Learning and teaching strategy/ assessment methods		
C1 follow safe working practices in practical situations	Learning and Teaching Methods: The learning and teaching methods place emphasis on lectures,		
C2 use appropriate formats to communicate information	practical and experimental work, and team projects. Project briefs simulating realistic practice also contribute to teaching and learning.		
C3 design and develop computer systems to solve computing			
problems	Project briefs simulating realistic practice also provide students with opportunities to hone practical and professional skills and produce		
C4 show an awareness of the qualities necessary for employment in situations requiring personal responsibility and	excellent outcomes.		
decision-making skills	Working within allotted timeframes and resource constraints develops professional skills worthy of any workplace. Underpinning practical skills are developed throughout the Level 4 modules, providing students with the building blocks needed to acquire new techniques and practices as they progress through the year. At Level 4, the key practical skills will be designed to develop the technical capability needed by students to answer practical problems or briefs, taking responsibility to produce resolute outcomes.		
	Assessment Methods: Learners will have the opportunity to use modern, industry-standard equipment to apply their knowledge and develop the skills required for employment.		
	Testing the knowledge base is principally through coursework, practical assessments, assignments, examinations, reports, class		



3C. Practical and professional skills			
	tests, group work, portfolios, journals, logs, and presentations. Assessment of practical and professional skills is achieved through the practical elements of the level 4 modules. Formative feedback occurs throughout the learning and assessment process. Summative feedback is used to indicate the areas of strength, highlight areas for improvement to strengthen the		
	knowledge, skills and abilities of learners.		

3D. Key/transferable skills				
Learning outcomes:	Learning and teaching strategy/ assessment methods			
D1 make effective use IT, numeracy and literacy skills	Learning and Teaching Methods: Transferable and fundamental skills are delivered throughout the			
D2 use appropriate data and information to solve problems in routine situations	course, i.e., lectures, coursework assignments. The teaching and learning of ICT skills will be within the course structure. Workshops include demonstrations such as ICT skills, PowerPoint and other I.T.			
D3 develop an awareness of own ability and limitations and the willingness to seek appropriate support when required	applications, presentations and library research skills. Effective learning environments are engendered in classroom and on-site industry visits and workshops with staff and students sharing			
D4 identify personal development needs and begin to plan a career path	experiences as partners in learning. Other learning and teaching methodologies include guest speakers, demonstration and peer learning.			
	The tutorial sessions will support learners with research, academic writing and referencing throughout the year. Teaching and learning will be contextualised with professional, social, ethical and legal			



3D. Key/transferable skills

factors relevant to the cyber security and digital forensic industry. Collaboration and communication techniques will be utilised through all learning and teaching activities, group discussions and simulations, project-based learning activities, report writing and blended and virtual learning platforms.

Over the course of the programme, learners are provided with essential information which they must then research, analyse and interpret. Learners will undertake further independent reading to broaden the understanding of specific problems and design principles. This is designed to stretch and challenge learners and develop their ability at Level 4 as preparation for Level 5. Creative thinking is engendered in every aspect of the programme and will be further fostered and encouraged through weekly learning. Discussion and critiques support the development of problem resolution at a higher intellectual level.

Assessment Methods:

Learners will develop subject knowledge from data examination and enhance their understanding of assessments. Throughout the programme learners will develop digital literacy by completing class activities and assessments using suitable methods.

The testing of learner knowledge is principally through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations.



3D. Key/transferable skills				
	Assessment strategies offer students clear guidance regarding future development. Self-reflection and peer evaluation constitute an essential part of formative and summative assessment.			

Certificate of Higher Education in Cyber Security and Digital Forensics



September Intake - Full Time

Programme Structure - LEVEL 5 (Full Time)					
Compulsory modules	Credit points	Optional modules	Credit points	Is module compensatable?	Semester runs in
Cloud Security	20			Yes	1
Network Security	20			Yes	1
IoT Security	20			Yes	1
Innovative Delivery of Mobile Applications	20			Yes	2
Work Based Learning	40			No	2

January Intake - Full Time

Programme Structure - LEVEL 5 (Full Time)					
Compulsory modules	Credit points	Optional modules	Credit points	Is module compensatable?	Semester runs in
Cloud Security	20			Yes	2
Network Security	20			Yes	2
IoT Security	20			Yes	2
Innovative Delivery of Mobile Applications	20			Yes	1
Work Based Learning	40			No	1



September Intake - Part Time

Programme Structure - LEVEL 5 (Part Time and HLA)					
Compulsory modules	Credit points	Optional modules	Credit points	Is module compensatable?	Semester runs in
Cloud Security	20			Yes	Year 2 Semester 2
Network Security	20			Yes	Year 2 Semester 2
IoT Security	20			Yes	Year 3 Semester 1
Innovative Delivery of Mobile Applications	20			Yes	Year 3 Semester 1
Work Based Learning	40			No	Year 3 Semester 2



January Intake - Part Time

Programme Structure - LEVEL 5 (Part Time and HLA)					
Compulsory modules	Credit points	Optional modules	Credit points	Is module compensatable?	Semester runs in
Cloud Security	20			Yes	Year 3 Semester 1
Network Security	20			Yes	Year 3 Semester 1
IoT Security	20			Yes	Year 2 Semester 2
Innovative Delivery of Mobile Applications	20			Yes	Year 2 Semester 2
Work Based Learning	40			No	Year 3 Semester 2

Intended learning outcomes at Level 5 are listed below:



<u>Learning Outcomes – LEVEL 5</u>				
3A. Knowledge and understanding				
Learning outcomes:	Learning and teaching strategy/ assessment methods			
A1 apply theories and concepts which underpin the development and implementation of computing solutions	Learning and Teaching Methods: Subject-related qualities are acquired through lectures, seminars, directed and self-directed reading, videos and IT-based resources,			
A2 develop and evaluate selected design techniques in the development of computing solutions	case studies, virtual learning environment (VLE) integration and experiential learning.			
A3 design, apply and evaluate test strategies in computing systems	Group critiques and individual tutorials promote reflective learning and the development of generic skills. Real world projects also provide vehicles for learning and teaching.			
A4 critically analyse current developments in computing technologies	At Level 5, the students will be encouraged to contextualise their work, research to expand and strive for improvement in their knowledge,			
A5 apply knowledge of professional, moral, ethical and legal issues which underpin the computing industry	understanding and application of the theoretical contexts and concepts encountered.			
A6 demonstrate practical skills to underpin industrial practice in computer systems	Project based learning will challenge students to put their acquired knowledge into independent professional practice at Level 5, preparing students for the challenges of Level 6 or industry practice.			
	Assessment Methods: Formative assessment is given continually through class work, practical labs, and tutorial sessions. Self-reflection and peer evaluation constitute an important part of formative assessment.			



<u>Learning Outcomes – LEVEL 5</u>				
3A. Knowledge and understanding				
	Summative assessment is regularly provided through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations. Assessment strategies offer students clear guidance regarding future development.			

3B. Cognitive skills			
Learning outcomes:	Learning and teaching strategy/ assessment methods		
B1 research and assess subject specific facts, theories,	Learning and Teaching Methods:		
paradigms, principles and concepts	These intellectual cognitive skills are developed through lectures, seminars, tutorials or practical-based activities, independent project		
B2 critically assess and evaluate computer systems	work and project based learning activities.		
B3 interpret data and text and evaluate information	As with Level 4, students will be presented with briefs however, at Level 5, project based learning will move to a more complex problem,		
B4 evaluate the appropriateness of different approaches to solving problems	encouraging the students to develop their critical thinking, creativity, communication skills, and self-reflection.		
	At Level 5, PBL will guide the students to develop more critical awareness, enabling students to formulate ideas and confidently research and experiment to strengthen their outcomes.		



3B. Cog	gnitive skills			
	Assessment Methods: Assessment strategies offer students clear guidance regarding future development.			
	Formative assessment is given continually through class work, practical labs, and tutorial sessions. Self-reflection and peer evaluation constitute an important part of formative assessment.			
	Summative assessment is regularly provided through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations. Assessment strategies offer students clear guidance regarding future development.			
	Where students solve real-life problems, cognitive skills are assessed via pitching and presenting ideas and client feedback on the outcomes produced.			
3C. Practical an	3C. Practical and professional skills			
Learning outcomes:	Learning and teaching strategy/ assessment methods			

3C. Practical and professional skills				
Learning outcomes:	Learning and teaching strategy/ assessment methods			
C1 use and develop safe working practices in practical situations	Learning and Teaching Methods:			
C2 communicate technical information to users, management	Practical and professional skills are developed through structured practical activities. These include practical activities, team projects			
and academics	and ideas generation and solution development workshops and			
	project based learning experiences. The course team will use guest			
	speakers to enhance delivery and give real world context to the			



3C. Practical and professional skills

C3 solve computing problems in a business or industrial setting

C4 work effectively as a member of a team and reflect on own practice and that of others

C5 demonstrate the qualities necessary for employment in situations requiring personal responsibility and decision-making skills

practical and professional skills developed on the programme. Learners will also utilise the work placement as an extension of the learning opportunity to build upon skills fostered in Level 4 and will now be enhanced at Level 5.

At Level 5, practical and professional skills are inherent in all modules, as learners are expected to deliver practical outcomes to a professional standard at this level. Learn to study and develop independent thinking, problem-solving, analysing, and evaluation and self-reflection skills. Collaborative group-based work will be assessed by work submitted individually and may include an element of assessment by tutor observation of each candidate's contribution to the team and effectiveness as a team member while the team is working on the project.

Moving with confidence from fundamental technical skills to become flexible, adaptive, and experimental. Responding to real world briefs and work experience to successfully adapt to this ever evolving and creative industry by identifying and solving complex, challenging issues.

Assessment Methods:

Assessment strategies offer students clear guidance regarding future development.



3C. Practical and professional skills				
	Formative assessment is given continually through class work, practical labs, and tutorial sessions. Self-reflection and peer evaluation constitute an important part of formative assessment.			
	Summative assessment is regularly provided through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations. Assessment strategies offer students clear guidance regarding future development.			
	At Level 5, learners must prove their professional practice in the Work-Based Learning module. To be successful, learners must display independence, make reasoned judgements in a professional setting. Learners will present outcomes of product design and development during a presentation to a panel of industry experts.			

3D. Key/transferable skills				
Learning outcomes:	Learning and teaching strategy/ assessment methods			
D1 demonstrate effective use of IT, numeracy and literacy skills	Learning and Teaching Methods:			
to a variety of audiences	Key/transferable skills will be developed through lectures, seminars, and tutorials. This also includes ICT skills, information management,			
D2 identify, source, evaluate and use appropriate data and information to solve problems in both familiar and unfamiliar situations	library research skills and preparation for placement activities. All transferable skills apply to theoretical disciplines, practical and project based activities. Other learning and teaching methodologies include demonstration, and peer learning.			



3D. Key/transferable skills

D3 reflect on own ability and limitations and identify and secure appropriate support when required

D4 identify personal development needs, the need for continuous professional development and begin to plan a career path

D5 manage personal development including time management, organisational skills and meta skills

Learners will be provided with key information which they will research, analyse, and interpret, then seek out further reading where they must independently broaden their understanding of specific problems and creative design principles. The fundamental design of the programme is to stretch learners, develop their skills at Level 5 as preparation for Level 6 or employment.

Project Based Learning and work based learning module at Level 5 enable students to work in industry (or simulated) contexts driving them to become effective in their time management, taking responsibility for their work, and managing working with others in a professional environment.

Creative thinking and critical analysis are applied to all aspects of the programme and will be further fostered and encouraged through weekly lessons. Discussion and critiques support the development of problem resolution at a higher intellectual level. At Level 5, students are encouraged to develop their self-reflection and set targets with the tutor, reflecting on feedback, and responding to this.

Assessment Methods:

Assessment strategies offer students clear guidance regarding future development.

Formative assessment is given continually through class work, practical labs, and tutorial sessions. Self-reflection and peer evaluation constitute an important part of formative assessment.



3D. Key/transferable skills			
	Summative assessment is regularly provided through coursework, practical assessments, assignments, examinations, reports, class tests, group work, portfolios, journals, logs, and presentations. Assessment strategies offer students clear guidance regarding future development.		

Foundation Degree in Cyber Security and Digital Forensics



4. Distinctive features of the programme structure

- Where applicable, this section provides details on distinctive featurs such as:
- where in the structure above a professional/placement year fits in and how it may affect progression
- > any restrictions regarding the availability of elective modules
- > where in the programme structure students must make a choice of pathway/route
- Additional considerations for apprenticeships:
- how the delivery of the academic award fits in with the wider apprenticeship
- > the integration of the 'on the job' and 'off the job' training
- how the academic award fits within the assessment of the apprenticeship

The modes of delivery for the course are full-time (2 academic years, 4 semesters) and part-time (3 academic years, 6 semesters). The course is based on 120 credits of study per year full-time (2 semesters), and 80 credits per year part-time (2 semesters). Modules at level 5 build on the knowledge and skills students learn and develop at Level 4.

The division of time, between lectures, practical activity, and independent study, within a module can vary. For each module, apart from the Work Based Learning module, students are expected to spend typically 200 hours of study in total.

Integral to the Foundation Degree is Work Based Learning. Cognisance of this has been taken in the design of the Foundation Degree programme by including a Work Based Learning module. This module is completed through an industrial placement which affords students the opportunity to gain invaluable experience of a computing working environment. Placements are four days per week equating to 308 placement hours with an additional 12 hours of tutorials and 80 hours of independent study. The module has a value of 40 credit points at Level 5.

In addition to providing students with experience of industrial working practices, this module also provides an opportunity to relate and integrate these skills with the academic content of their course. Each student completes a report detailing the learning achieved during the placement and its relevance to future employment and makes a formal presentation of this to the course team.

Full-time students take the Work Based Learning module in Semester 2 of Year 2, while part-time students take this module in Semester 2 of Year 3. When agreeing the work placement, the placement organisation will nominate an industrial supervisor and a member of the course team will act as placement tutor to the student. A mechanism, (the College Business Engagement and Student Tracking (BEST) system outlined below), will be put in place to allow the student and the industrial supervisor to have effective communication with the placement tutor, who will also make at least three visits to the placement during the period.



Through the tutorial system at Level 4, students are introduced to the concept of work placement and at this point are guided to actively seek a suitable work placement. As a result, it is normal that students find a placement in their own locality. Where a student is unable to find a suitable placement, the placement tutor will provide options from a bank of employers in the local area. Details of these are available to students on the BEST system. All placements must be formally confirmed by the host organisation prior to commencement of the Work Based Learning module. An on-going consultation process will occur with the student in tutorials to ensure a suitable placement has been selected.

No elective modules or pathway/routes are available from this programme.

Programme Resources

SERC continues to invest heavily in resources for computing programmes. This is both in terms of physical resources and staff skillsets. The college has dedicated teaching facilities and resources on each campus and in the recent academic years the School of Computing has invested over £300,000 in a range of state-of-the-art technologies that include:

- Dedicated specialist rooms (3 Bangor, 2 Downpatrick, 3 Lisburn)
- Dedicated on-premises School of Computing server infrastructure (circa £75'000)
- Dedicated remote access and application server
- Range of virtual, augmented, and virtual reality equipment (Oculus, Acer, HoloLens)
- Industry standard Cisco networking laboratory configuration
- iMac Pro facilities to support cross platform application development (1 per campus)
- Internet of Things extensive range of components combined with an Industry 4.0 technology suite
- Extensive range of components to facilitate system builds and computer systems architecture projects
- Portable motion capture suite
- Access to a range of cloud platforms (AWS, Azure)
- Interactive whiteboards within teaching environments
- Dedicated tablet devices (mobile application deployment and testing)

Please note specialist computing rooms are in addition to general computing/teaching rooms.

Curriculum technology needs are under constant review to ensure that they are in line with industry practices and can accommodate any emerging trends. There is provision within the school budget allocation for the procurement of resources and in addition business cases can be submitted to secure the capital funds for the acquisition of resources from a resource or estates perspective.

Exemplar Room/Lab Specification



The College has excellent estates facilities with all campuses either being built or extensively renovated recently. This is mirrored by the facilities provided at a classroom level with a typical room specification containing:

- 25 Student PCs per room
 - Dell Precision 3440 (Intel® Core i7, 32 GB RAM, AMD Radeon Pro 3200 Series)
- Interactive whiteboard
- Projectors
- Remote access facilities to all requisite software, on premise server resources and cloud-based resources

Device Loan Scheme

The college implements a device loan scheme. This scheme is to support learners who do not have access to the requisite technology to learn from home. All devices are configured to facilitate secure connection to all college platforms including the dedicated computing server infrastructure and cloud-based systems. In addition, the School of Computing implements a system where learners can loan specialist hardware such as IoT kits and AR/VR systems.

5. Support for students and their learning.

(For apprenticeships this should include details of how student learning is supported in the work place)

Students and their learning are supported in a number of ways:

- · A comprehensive programme induction for new students.
- · Student programme and module handbooks are placed on the VLE (MOODLE) for students to reference at any time from any location.
- · An HE Student Handbook for the academic year is available on the college website and VLE highlighting internal processes, codes of conduct, academic practices, support services and general college information for the learner.
- · Assignment of students to a studies advisor and a year tutor.
- · Access for students to the Course Director and academic staff through an 'office hours' system.
- · Student representation on course committees and HE Review Boards.
- · Opportunity to address general concerns through the student/staff consultative committee.



- · Facilities and assistance offered by the library and computer services.
- · Student e-mail accounts and full access to the College VLE (MOODLE).
- The Student Support Hub provide help in the field of customer service, young career support, health, counselling and guidance, careers, finance, learning support, pastoral care, library and resource centre and Students Union.
- · Dedicated Work Placement department providing advice and support through the complete process for securing and undertaking Work Based Learning.
- · Provision of Dedicated Work Based Learning tutor.
- · The College has procedures for assessment of, and for making arrangements to meet the additional support needs of students with disabilities. These procedures follow DSA guidance.
- · Timetabled tutorial sessions on a weekly basis will be provided for all students.
- · College email system accessible for student to contact tutors for support and advice in and out of office hours.
- · College Microsoft Teams system accessible for students to contact tutors for support and advice whilst working remotely.
- · The colleges operations a robust complaints and appeals process that the students can avail of as required.
- · A school technician is available to support student in their learning and projects.

6. Criteria for admission

(For apprenticeships this should include details of how the criteria will be used with employers who will be recruiting apprentices.)

Admission Criteria

Applicants must satisfy the College general entry requirements as set out in the prospectus. Alternatively, applicants may demonstrate their ability to undertake the course through the accreditation of prior experiential learning (APEL). The initial offer standard may vary from year to year.

Proposed 2022/23 Entry Criteria - Foundation Degree Year 1 (full-time)

GCSE's

Four GCSEs including:

 A minimum of Grade C in English OR Essential Skills Level 2 OR another approved equivalent



- A minimum of Grade C in Maths OR Essential Skills Level 2 OR another approved equivalent
- Two additional GCSEs at Grade C are required OR approved equivalents

UCAS

A minimum of 64 UCAS points including:

- Level 3 Diploma OR
- A levels

Access Diploma

Access to Higher Education Diploma with an overall average of 45+%

Admissions

Successful completion of the <u>Admissions Process</u>

APEL

Applicants who do not hold any formal Level 3/4 qualifications but hold significant and relevant Industrial experience may gain admission through experiential learning and should request the college Accreditation of Prior Experiential Learning (APEL) procedure.

English Language Requirements for International students:

- Common European Framework of Reference (CEFR) level
- B2 IELTS 6.0 (minimum of 5.5 in all skills)
- PTE 51 Or an approved equivalent test in English

Tier 4 Students:

 SERC will only accept a Secure English Language Test (SELT) for issuing a Certificate of Acceptance for Studies (CAS)

Proposed 2022/23 Entry Criteria - Foundation Degree Year 1 (part-time)

GCSE's

Four GCSEs including:

- A minimum of Grade C in English OR Essential Skills Level 2 OR another approved equivalent
- A minimum of Grade C in Maths OR Essential Skills Level 2 OR another approved equivalent
- Two additional GCSEs at Grade C are required OR approved equivalents

UCAS

A minimum of 48 UCAS points including:

- Level 3 Diploma OR
- A levels

Access Diploma

Access to Higher Education Diploma with an overall average of 40+%

Admissions

• Successful completion of the <u>Admissions Process</u>



APEL

Applicants who do not hold any formal Level 3/4 qualifications but hold significant and relevant Industrial experience may gain admission through experiential learning and should request the college Accreditation of Prior Experiential Learning (APEL) procedure.

English Language Requirements for International students:

- Common European Framework of Reference (CEFR) level
- B2 IELTS 6.0 (minimum of 5.5 in all skills)
- PTE 51 Or an approved equivalent test in English

Tier 4 Students:

 SERC will only accept a Secure English Language Test (SELT) for issuing a Certificate of Acceptance for Studies (CAS)

7. Language of study

The programme will be offered in English.

English Language Requirements for International students:

- Common European Framework of Reference (CEFR) level
- B2 IELTS 6.0 (minimum of 5.5 in all skills)
- PTE 51 Or an approved equivalent test in English

Tier 4 Students:

requirements)

 SERC will only accept a Secure English Language Test (SELT) for issuing a Certificate of Acceptance for Studies (CAS)

None
9. For apprenticeships in England End Point Assessment (EPA).
(Summary of the approved assessment plan and how the academic award fits within this and the EPA)
N/A

8. Information about non-OU standard assessment regulations (including PSRB



10. Methods for evaluating and improving the quality and standards of teaching and learning.

In line with QAA Foundation Degree Characteristics Statement (2020) the following processes are in place:

- Cross marking, internal moderation and external examining processes used to ensure validity and reliability of assessment process.
- The Course Committee considers student feedback from each module.
- Student/staff consultative meetings provide the means of highlighting any difficulties, relating to the course, experienced by the cohort.
- Annual Course Review procedures consider quantitative and qualitative feedback from each course within a subject area.
- Students are given the opportunity to be represented at staff / student consultation meetings.
- Staff teaching performance is monitored annually
- Staff appraisal is carried out on a two-year cycle with attention given to the development needs of the individual staff member.
- The college annually complete a Self-Evaluation and Quality Improvement Plan for each programme following the Awarding Organisations requirements.
- The College has a Staff Development Programme, which facilitates specific training/development for staff.
- All staff are encouraged to complete Information & Learning Technology qualifications.
- Views of External Examiners are considered as part of the quality processes and Awarding Organisations reporting mechanisms are followed.
- Informal views and formal written feedback is considered from Employers.
- Student performance data and career progression is annually monitored.
- The Course Director attends annual meetings and workshops as provided by either the Awarding Organisation or Validated Institute. This also helps to regulate codes of practice and course management procedures.

10. Changes made to the programme since last (re)validation



N/A			

Annexe 1: Curriculum map

Annexe 2: Notes on completing the OU programme specification template



Annexe 1 - Curriculum map

This table indicates which study units assume responsibility for delivering (shaded) and assessing (✓) particular programme learning outcomes.

		Programme outcomes																							
Level	Study module/unit	P4	A2	A3	A4	A5	B	B2	B3	B4	C1	C2	C3	22	12	D2	D3	D4							
4	Computation Mathematics	✓		✓			✓		✓			✓		✓	✓	✓									
	Computer Systems		✓		✓		✓		✓	✓	✓		✓	✓		✓									
	Programming Fundamentals	✓		✓	✓		✓	√	√	✓		✓	✓	√	✓	✓									
	Network Security		✓		✓	✓	✓		✓		✓		✓	✓	✓	✓									
	Web Technologies and Applications	✓		✓			✓	√	√			✓	✓	√		✓	✓	✓							
	Network Infrastructure		✓	✓	√	√	√		✓		✓	✓		✓		✓	✓	✓							

			Programme outcomes												ı	ı											
Level	Study module/unit	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	C٦	C2	c3	C4	C 2	рı	D2	EQ.	D4	D5						
5	Cloud Security		✓		✓		✓	✓	✓					✓	✓		✓	✓									
	Incident Response	✓				✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓		✓						
	IoT Security	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓			✓	✓								
	Innovative Delivery of Mobile Applications	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓			>	>			✓						
	Work Based Learning	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						



Annexe 2: Notes on completing programme specification templates

- 1 This programme specification should be mapped against the learning outcomes detailed in module specifications.
- 2 The expectations regarding student achievement and attributes described by the learning outcome in <u>section 3</u> must be appropriate to the level of the award within the **QAA frameworks for HE qualifications**: http://www.qaa.ac.uk/AssuringStandardsAndQuality/Pages/default.aspx
- 3 Learning outcomes must also reflect the detailed statements of graduate attributes set out in **QAA subject benchmark statements** that are relevant to the programme/award: http://www.qaa.ac.uk/AssuringStandardsAndQuality/subject-guidance/Pages/Subject-benchmark-statements.aspx
- 4 In section 3, the learning and teaching methods deployed should enable the achievement of the full range of intended learning outcomes. Similarly, the choice of assessment methods in section 3 should enable students to demonstrate the achievement of related learning outcomes. Overall, assessment should cover the full range of learning outcomes.
- 5 Where the programme contains validated exit awards (e.g. CertHE, DipHE, PGDip), learning outcomes must be clearly specified for each award.
- 6 For programmes with distinctive study routes or pathways the specific rationale and learning outcomes for each route must be provided.
- 7 Validated programmes delivered in <u>languages other than English</u> must have programme specifications both in English and the language of delivery.