Stage 1 – Computing - Technical Stream

Programme Specification

Purpose

This Programme Specification provides detailed information on the above course for students, staff and stakeholders. It is also used for programme monitoring and academic quality assurance.

Disclaimer

International College Portsmouth has checked the information given in this Programme Specification and believes it to be correct. We will endeavour to deliver the course in keeping with this Programme Specification but reserve the right to change the content, timetabling and administration of the course whilst maintaining equivalent academic standards and quality.

Contents

1. Named Awards

BSc (Hons) Computer Science
BSc (Hons) Computing
BSc (Hons) Cyber Security and Forensic Computing
BSc (Hons) Software Engineering

2. ICP Course Code and University Jupiter Code

1CT2 – A0009

3. ICP Stage of Study

Stage 1 - RQF Level 3

4. Hours of study

One credit is equivalent to 10 hours of learning. This programme is comprised of 125 credit points, equivalent to 1250 notional hours comprised of 412 contact hours and 788 self-directed hours.

5. Awarding Body

University of Portsmouth

6. Award Level

Undergraduate - RQF Level 6

7. Teaching Institution

International College Portsmouth

8. Teaching Location

St Andrew's Court, University Quarter

9. Faculty at Progression Stage

Faculty of Technology

10.   QAA Benchmark Groups

Reference, where appropriate, to the following overall degree Leaning Outcomes: Note that the Intended LOs and academic framework have been made with reference to the following QAA Subject Benchmark Statement: Computing 170 03/07 para. 3 ff.

11.   Planned Programme

ICP
•Stage 1
•Foundation
→
UoP
•Stage 2
•1st year degree
→
UoP
•Stage 3
•2nd year degree
→
UoP
•Stage 4
•3rd year degree
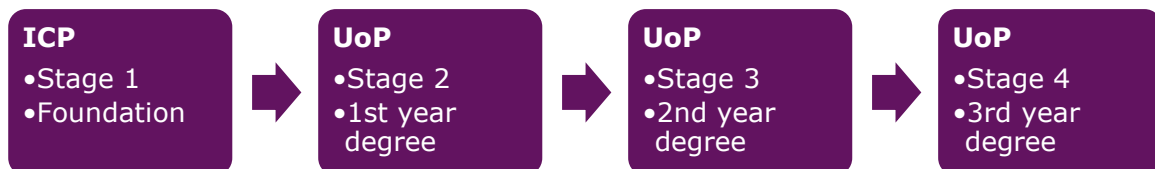
12.   Document Control Information

Original Creation –   January, 2012
Last Review -   February, 2018

Strategic Rationale

The partnership between ICP and University of Portsmouth facilitates the acquisition of Select level degree by international students who, because of their previous educational experience, are not normally able to gain direct access to the University's degree schemes. The programme has therefore been developed to satisfy important pedagogical issues:

1. To ensure that international students have a dedicated period of time, in a familial and safe setting, to adjust to and acquire the skills to prepare for further studies within a western learning environment.
2. To satisfy the University's quality protocols, which in turn are directed by the QAA Subject Benchmark requirements, for articulation purpose.
3. Facilitate access to a programme leading to a University degree award.
4. Protect the entry tariff of the University to its degree schemes and ensure that the University does not need to lower its entry tariff in order to increase its international student population.
5. Widen access and participation in higher education in line with the University's internationalisation agenda.
6. Commit to the provision of best practice customer service and student experience for international students and thus add value to the University's award winning student lifestyle.
7. Support the integrity of the University's QAA commitment by adopting and adapting the University's quality regime to form the basis of a robust, quality driven academic provision and administrative systems and processes.
8. Facilitate effective and efficient, low risk public/private partnership in line with the University's strategic research mission.
9. Enhance the global reach of the University into previously untapped markets and market segments.
10. Add resource, human and financial, to the University's marketing process.
11. Facilitate access to a global recruitment process.
12. Assist in the diversification of the student body.
13. Make available the benefits derived from access to Navitas' global reach and corporate marketing arm.
14. Provide the University with third stream revenue via income flow from royalty payments each trimester and the ongoing pipeline revenue derived from fees paid by those students who progress to the University to complete their prescribed degree schemes.

Educational Aims

The programme has been devised in accordance with the partnership general educational aims and nominated outcomes and those formulated for ICP, see College Policy and Regulation QS4. The educational aims of this stage of study undertaken at the College are to:

1. Prepare students, who would not normally be considered qualified, to an appropriate standard for progression to the next stage of the programme at the University.
2. Develop in students a fundamental knowledge and understanding of key theoretical constructs underpinning business and management approaches, study, research and statistical methodologies and formal academic discourse, scholarship, ICT, presentation and communication skills, to support progression to the next stage of the programme at the University.
3. Develop in students an appreciation and desire to learn based on competent intellectual and practical skills that build to a set of transferable skills underpinning all aspects of their onward academic studies/career programme.
4. Ensure students acquire and foster an appreciation of the wider computing, business and management context and its underlying principles, inclusive of the social,

environmental, ethical, design, economic and commercial impacts and affects, as well as the potential careers involved so as to support their preparedness for progression to the next stage of the programme at the University.

5. Ensure that students have attained the prescribed of inter-disciplinary language competence described as Level B2 'Proficient User' by the Council of Europe, see *Common European Framework of Reference for languages: Learning, teaching assessment 2001*, Council of Europe, CUP, Cambridge, p. 24, Table 1. *Common Reference Levels: global scale*.

6. Ensure that students have attained the prescribed level of inter-disciplinary language competence to a minimum pass mark of 60% (Grade C) in the ACL accredited module Interactive Learning Skills and Communication; and therein a minimum 6.0 IELTS equivalent.

Learning Outcomes

Generic Learning Outcomes

All modules have a set of generic Learning Outcomes (LOs) attached to them, please see the Definitive Module Descriptors (DMD's) for more information. These provide a basic set of core transferable skills that can be employed as a basis to further study and life-long learning. They are delivered using an interdisciplinary and progressive approach to build these core skills within the context of subject-specific learning. Incorporated in these core skills are the key themes of relationship-management, time-management, professional communication, technological and numerical understanding and competency.

Key knowledge will be demonstrated by demonstrated understanding of:
- Personal organisation and time-management skills to achieve research goals and maintain solid performance levels.
- Understanding of the importance of attaining in-depth knowledge of terminology as used in a given topic area, as a basis to further study.
- Understanding, knowledge and application of appropriate and effective methods of communication to meet formal assessment measures.
- Understanding and knowledge as to the development of the industry and/or scholarship in relation to a given topic under study.
- Understanding of the rules applying to plagiarism and collusion.
- Ability to work as an individual, in a small team and in a larger group to effect data collation, discussion and presentation of evidence.

Key skills will be demonstrated by the ability to:
- Meet converging assessment deadlines – based on punctuality and organisation with reference to class, group and individual sessions within a dynamic and flexible learning environment with variable contact hours and forms of delivery.
- Communicate clearly using appropriate nomenclature to enhance meaning in all oral and written assessments with no recourse to collusion or plagiarism.
- Present clearly, coherently and logically in a variety of oral and written formats using a variety of appropriate qualitative and quantitative tools and evidence bases.
- Demonstrate an understanding of the current themes of a given topic, the academic and practical foundation on which they are based – demonstrated by a lack of plagiarism and need for collusion in both individual and group work.
- Collate, summarise, reason and argue effectively on a given topic without reference to another's work or ideas/concepts.
- Meet and succeed in each of the varied assessments presented.

Intended Learning Outcomes

A. Knowledge and Understanding

1. Definition of a business and its internal and external operating processes, inclusive of planning and strategy, growth, marketing, products/services, finance and accounting systems, information systems, and the management and development of human resource within organisations with reference to ICT.
2. The principles underlying the use of various technologies with regard to computing applications – their creation, development, use and control.
3. The application of numerical techniques to the business and decision making process.
4. The context and future development of connectivity using mobile communications and the internet at personal, commercial, national and global levels.
5. The theories and key concepts of physical science in an interdisciplinary context.
6. The wider range of social, political and security issues in the context of computing, communication technology and publication.
7. A basic understanding of hardware and user interface in the context of Future Interaction Technology.
8. Basic operating systems, compilers and networks.
9. The application of mathematic techniques to the Computer Science and logical decision making process.
10. The purpose and processes of object-orientated programming and an introductory understanding of Java.
11. The application of ICT as a fundamental tool for extracting, sourcing, describing and presenting data and information in a variety of relevant forms, and distributing data and information via a range of channels and formats.
12. The techniques and forms of effective and clear communication in a variety of academic and professional settings in accordance with Level C1 'Proficient User' as described by the Council of Europe.
13. The role and importance of research methods and how to think, argue and write in a critical manner.

B. Cognitive / Intellectual Skills

1. Make full use of library and IT search (catalogue and bibliographic) resources.
2. Apply basic research techniques to sourcing and selecting appropriate academic data and literature.
3. Integrate oral, written, non-verbal and diagrammatic skills to effect clear communication.
4. Ability to analyse data and various modes of information using appropriate techniques.
5. Ability to begin to evaluate and start to apply, reasoned thinking and supportive evidence collation to conflicting sets of information and academic opinion.

C. Practical Skills

1. Transfer and utilise key skills at a higher level of study.
2. Employ analytical skills and methodologies as a basis to further study.
3. Ability to engage critically with regard to the underlying challenges facing business.
4. Develop the knowledge and skills to carry out basic laboratory manipulations with reference to University of Portsmouth protocols and safety regulations

D. Transferrable Skills

1. Select, read, digest, summarise and synthesise information material in a variety of forms, both qualitative and quantitative (text, numerical data and diagrammatic) and in an appropriate manner to identify and determine key facts/themes and relevancy.
2. Use and clearly communicate discursive, numerical, statistical and diagrammatic ideas, concepts, results and conclusions using appropriate technical and non-technical language and language style, structure and form.

3. Application of basic research and referencing techniques to all aspects of study, information collation, information presentation and formulation of academic opinion.
4. Embedding the importance of self-study and reliance. This involves cultivating and developing a responsibility within each student to take cognizance for their own learning, initiative, effective time-management and self-discipline within the academic and professional environments.
5. Students will also begin to develop a very good conceptual understanding and evaluation of the main aspects of computing that can serve them well in their future studies and careers.

Learning and Teaching Strategies and Methods

The acquisition of learning outcomes is via a combination of small group lectures, small group-based tutorial coursework (oral and written presentation) and individual coursework (oral and written presentation) and summative examination. Application of the central programme themes throughout all core modules of the stage of study via examples and topics for assessment regimes. Additional support is provided through the provision of small peer-led tutorial group work; the addition of individual tutorial support; ICP module-specific subject specialists delivering modules; guest speakers (industry/topic specific); monitoring and appraisal by ICP academic management as well as Navitas Ltd (UK) management. Lecturers and the dedicated Student Services team are on hand via email or face-to-face in the College for additional support where required or desired.

All lectures and small group tutorials are held in the designated ICP class rooms, seminar rooms and dedicated IT laboratory. Field-trips will be taken as required. All candidates are expected to maintain a 100% attendance record in accordance with CPR M3 Attendance and Monitoring.

Students are encouraged throughout the stage of study to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject. This can be through the use of the University's library and IT facilities for self-directed study and to use their private IT facilities where possible.

Candidates are always encouraged to further develop intellectual skills by independent self-directed study as in the setting and monitoring of projects and coursework that require research and compilation skills as well as in-course spot-tests, examinations and participation. Students are encouraged to understand and evaluate with critical awareness the concepts studied at this level. This is further supported by an assessment framework that requires a high level of self-directed study allows candidates to foster a range of analytical skills to support further study.

Using a combination of all delivery and assessment styles (oral and written, group and individual) used within the stage of study to demonstrate competence in presentation, reports, long and short essays (to enhance summarisation techniques and limit collusion and plagiarism), timed-assignments (indicating knowledge, organisation, time management and clear communication ability), of the following: design a persuasive message from the audience's perspective; demonstrate effective presentation delivery skills in a variety of situations; leave effective voice-mail messages; write persuasive E-mails, memos letters; and write factual essays and reports in plain English.

Feedback is given to all students on all work produced and, where appropriate, confirmed in individual appraisal events associated with modules and more generally Navitas Ltd (UK) academic management. Additional interviews are made with the

lecturer and/or the Student Services Team to evaluate and discuss any emerging learning issues and therein candidates options.

Academics preferably have a strong programme related background as well as academic and teaching credentials to ensure that the stage of study satisfies the generic outcomes required by the QAA Foundation Degree qualification benchmark (applied here to Level 1 only) – application of concepts to the work environment.

ICP fully support the use of technology enhanced learning both within and beyond the classroom; please see the TEL Policy for further details. Ensuring all candidates acquire grounding in University of Portsmouth and associated end-user IT platforms for academic study. The opportunity to interface regularly with noted platforms in College, University of Portsmouth library and independent environments to develop an understanding of the implications of the use of different computer and IT systems for research.

Assessment Strategy

All assessments for core units on this programme are considered to provide opportunities for students to demonstrate knowledge and understanding of the subject matter relating to the degree programme. Some assessments lend themselves more readily to the development and demonstration of cognitive skills. Others provide evidence of practical, professional and subject specific skills. Most assessments will provide opportunities for students to demonstrate the achievement of transferable and key skills.

Assessments include a combination of summative (closed-book) examinations and summative coursework along with written assignments and in-course assessments, computer-based coursework, project reports and presentations that test all analytical skills and require the application of taught methodology to solve queries across a range of subject areas.

This indicates an ability to effectively manage a complex and flexible timetable, combining a variety of delivery and assessment modes, some of which are conflicting in submission and style (oral/written and individual/small group, to demonstrate effective organisation, self-reliance and time-management skills.

Integrated themes used across the continuous assessment framework for the stage of study allow the testing of robust copability skills in a number of environments.

Categories of Performance

A (High Distinction, 80 - 100%) – Distinctive level of knowledge, skill and understanding which demonstrates an authoritative grasp of the concepts and principles and ability to communicate them in relation to the assessment event without plagiarism or collusion. Indications of originality in application of ideas, graphical representations, personal insights reflecting depth and confidence of understanding of issues raised in the assessment event

B (Distinction, 70 - 79%) – Level of competence demonstrating a coherent grasp of knowledge, skill and understanding of the assessment and ability to communicate them effectively. Displays originality in interpreting concepts and principles. The work uses graphs and tables to illustrate answers where relevant. Ideas and conclusions are

expressed clearly. Many aspects of the candidate's application and result can be commended

C (Credit, 60 - 69%) – Level of competence shows an acceptable knowledge, skill and understanding sufficient to indicate that the candidate is able to make further progress. The outcome shows satisfactorily understanding and performance of the requirements of the assessment tasks. Demonstrates clear expression of ideas, draws recognisable and relevant conclusions

D (Pass, 50 - 59%) – Evidence of basic competence to meet requirements of the assessment task and event. Evidence of basic acquaintance with relevant source material. Limited attempt to organise and communicate the response. Some attempt to draw relevant conclusions

F (Fail – 0 - 49%) – The candidate's application and result shows that the level of competence being sought has not yet been achieved. The assessed work shows a less than acceptable grasp of knowledge, skill and understanding of the requirements and communication of the assessment event and associated tasks

Course Structure, Moderation, Progression and Award Requirements

This programme is taught across two semesters full-time. Both the delivery and assessment of the programme is in English. The mode of delivery is standard delivery model.

A thirty percent sample of each assessment is second marked by a subject specialist within the College. Link tutors from the University of Portsmouth and University appointed external examiners are invited to review these samples.

A minimum overall pass mark of 50% (Grade D) achieved in all modules with the exception of Interactive Learning Skills and Communication, Mathematics for Science and Computing and Numerical Techniques 2 which requires a minimum pass mark of 60% (Grade C).

Please refer to College Policy and Regulation (CPR) 9 – Assessment Regulations for further details on the assessment regulations and failing to progress.

Unit Assessment Map

Level	Module Name	Module Code	Core/ Option	Credit	Assessment Type	Weighting (%)	Issued to Student	Submission Date
3	ICT Skills	BUS107BL	Core	10	(A) Practical exercise covering word and excel skills	40	Week 4	Week 8
					(B) 2 hour closed book exam	60	Week 13	Week 13
3	Interactive Learning Skills and Communication	ILSCBL0	Core	20	(A) Research and Reference a Topic	10	Week 4	Week 6
					(B) Oral Presentation	20	Week 4	Week 7
					(C) Group Project	20	Week 6	Week 10
					(D) Closed Book Examination 2.5 hours to include listening component	40	Week 13	Week 13
					(E) PDP Portfolio	10	Week 2	Week 10
3	Maths for Science and Computing	SCI101SC	Core	20	(A) 1 hour (closed-book) in-class test	40	Week 5	Week 5
					(B) Final 2 hour closed book exam	60	Week 13	Week 13
3	Engineering Principles 1	ENS101	Core	20	(A) 1500 word laboratory report	20	Week 5	Week 7
					(B) 1 hour closed book exam	30	Week 6	Week 6
					(C) 2 hour closed book exam	50	Week 13	Week 13
3	Business Studies	BUS106	Core	10	(A) 15 minute group presentation (Business Plan)	10	Week 4	Week 7
					(B) 1500 word individual Business Plan	40	Week 5	Week 8
					(C) Final 2 hour closed book exam	50	Week 13	Week 13
					(A) 2 hour closed book exam	40	Week 6	Week 6

3	Numerical Techniques 2	SCI102	Core	20	(B) 2 hour closed book exam	60	Week 13	Week 13
3	Research Method, Critical Thinking & Expression	RES101	Core	15	(A) 1 hour in-class exercise	20	Week 4	Week 8
					(B) 1000 word written argument	20	Week 8	Week 10
					(C) Final 2 hour closed book exam	60	Week 13	Week 13
3	Programming Concepts	SCI107	Core	10	(A) MCT (20 mins)	5	Week 4	Week 4
					(B) MCT (20 mins)	5	Week 6	Week 6
					(C) MCT (20 mins)	5	Week 8	Week 8
					(D) Problem solving task	25	Week 6	Week 10
					(E) 2 hour closed book exam	60	Week 13	Week 13

Unit Learning Outcomes Map

Level	Module Name	Module Code	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	B1	B2	B3	B4	B5	C1	C2	C3	C4	D1	D2	D3	D4	D5
3	ICT Skills	BUS107BL	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓
3	Interactive Learning Skills and Communication	ILSCBL0	✓			✓		✓					✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓
3	Mathematics for Science and Computing	SCI101SC			✓		✓			✓			✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
3	Engineering Principles 1	ENS101			✓		✓						✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	Business Studies	BUS106	✓			✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
3	Research Methods, Critical Thinking and Expression	RES101											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3	Numerical Techniques 2	SCI102			✓		✓			✓			✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
3	Programming Concepts	SCI107		✓			✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Unit Delivery Schedule – Semester 1

Week	Total Hours									
	BUS107BL ICT Skills		**ENS101** Engineering Principles 1		**ILSCBLO** Interactive Learning Skills and Communication		**SCI101SC** Mathematics for Science and Computing		**Contact hours/week**	**Self-directed study hours/week**
	Contact hours	Self-dir study	Contact hours	Self-dir study	Contact hours	Self-dir study	Contact hours	Self-dir Study		
1	3	5	5	10	5	10	5	10	18	36
2	3	5	5	10	5	10	5	10	18	36
3	3	5	5	10	5	10	5	10	18	36
4	3	5	5	10	5	10	5	10	18	36
5	3	5	5	11	5	11	5	11	18	39
6	3	5	5	11	5	11	5	11	18	39
7	3	5	5	11	5	11	5	11	18	39
8	3	5	5	11	5	11	5	11	18	39
9	3	5	5	11	5	11	5	11	18	39
10	3	5	5	11	5	11	5	11	18	39
11	3	5	5	11	5	11	5	11	18	39
12	3	5	5	11	5	11	5	11	18	39
13 (Exam)	2	2	2	10	2	10	2	10	8	32
Total hours / module	38	62	62	138	62	138	62	138	212	488
Notional hours / module	100		200		200		200		700	
Credit Points	10		20		20		20		70	

Unit Delivery Schedule – Semester 2

Week	Total Hours								Contact hours/week	Self-directed study hours/week
	BUS106		**SCI102**		**RES101**		**SCI107**			
	Business Studies		Numerical Techniques 2		Research methods, critical thinking and expression		Programming Concepts			
	Contact hours	Self-dir study	Contact hours	Self-dir study	Contact hours	Self-dir study	Contact hours	Self-dir Study		
1	4	4	4	11	4	8	4	4	16	27
2	4	4	4	11	4	8	4	4	16	27
3	4	4	4	11	4	8	4	4	16	27
4	4	4	4	11	4	8	4	4	16	27
5	4	4	4	12	4	8	4	4	16	28
6	4	4	4	12	4	8	4	4	16	28
7	4	4	4	12	4	8	4	4	16	28
8	4	4	4	12	4	8	4	4	16	28
9	4	4	4	12	4	8	4	4	16	28
10	4	4	4	12	4	8	4	4	16	28
11	4	4	4	12	4	8	4	4	16	28
12	4	4	4	12	4	8	4	4	16	28
13 (Exam)	2	2	2	10	2	4	2	2	8	18
Total hours / module	50	50	50	150	50	100	50	50	200	350
Notional hours / module	100		200		150		100		550	
Credit Points	10		20		15		10		55	