COLLABORATIVE COURSE SPECIFICATION

HND Computing

COURSE SPECIFICATION

Course Title	HND Computing
Final Award	HND Computing
Exit Awards	HNC, CertHE
Course Code / UCAS code (if applicable)	C3073FTC
Mode of study	Full Time
Mode of delivery	Partner campus
Normal length of course	2 years
Cohort(s) to which this course specification applies	September 2023 onwards
Entry requirements	An A level in Computing or related subject, or Level 3 vocational equivalent (diploma/extended diploma), or equivalent industry experience in a relevant field.
Awarding Body	University of Portsmouth
Teaching Institution	Isle of Wight College
Faculty	Technology
School/Department/Subject Group	School of Computing
School/Department/Subject Group webpage	School of Computing webpage
Course webpage including entry criteria	Course webpage including entry criteria
Professional and/or Statutory Regulatory Body accreditations	N/A
Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level	Level 5

This course specification provides a summary of the main features of the course, identifies the aims and learning outcomes of the course, the teaching, learning and assessment methods used by teaching staff, and the reference points used to inform the curriculum.
This information is therefore useful to potential students to help them choose the right course of study, to current students on the course and to staff teaching and administering the course.

Further detailed information on the individual modules within the course may be found in the relevant module descriptors and the Course Handbook provided to students on enrolment.

Please refer to the Course and Module Catalogue for further information on the course structure and modules.

Educational aims of the course

- To equip students with computing skills, knowledge and the understanding necessary to achieve high performance in the global computing environment.
- To provide education and training for a range of careers in computing, including network engineering, software engineering, data analytics, security, intelligent systems, and applications development.
- To provide insight and understanding into international computing operations and the opportunities and challenges presented by a globalised market place.
- To equip students with knowledge and understanding of culturally diverse organisations, cross-cultural issues, diversity and values.
- To provide opportunities for students to enter or progress in employment in computing, or progress to higher education qualifications such as an Honours degree in computing or a related area.
- To provide opportunities for students to develop the skills, techniques and personal attributes essential for successful working lives.
- To provide opportunities for those students with a global outlook to aspire to international career pathways.
- To provide opportunities for students to achieve a nationally recognised professional qualification.
- To provide opportunities for students to achieve vendor accredited certifications.
- To offer students the chance of career progression in their chosen field.
- To allow flexibility of study and to meet local or specialist needs.
- To offer a balance between employability skills and the knowledge essential for students with entrepreneurial, employment or academic aspirations.

Taken from the Pearson Higher Nationals in Computing Specification Issue 3 (2017) pp: 11 -12)

Course Learning Outcomes and Learning, Teaching and Assessment Strategies

The Quality Assurance Agency for Higher Education (QAA) sets out a national framework of qualification levels, and the associated standards of achievement are found in their Framework for Higher Education Qualifications document.

The Course Learning Outcomes for this course are outlined in the tables below.

A. Knowledge and understanding of:			
LO number	**Learning outcome**	**Learning and Teaching methods**	**Assessment methods**
A1	The fundamental and underlying theory of computing, computer architectures, programming, operating systems, computer networks, software systems, database systems, systems analysis and design, human computer interaction, and web authoring infrastructures in the global context.	Lectures, seminars, Practical sessions, group work, simulations, demonstrations.	Demonstrations, Reports, Presentation's Portfolios, Examination, Set Exercises.
A2	The theory and practice of requirements analysis, specification and prototyping, implementation, testing, integration, documentation, delivery and maintenance and their roles in software development.	Lectures, seminars, laboratory work, group work, demonstrations project work	Reports, Project Work, Group Work, Set Exercises, Courseworks.
A3	The need for creativity in producing novel and robust software products.	Practical work, group work, demonstrations project work	Demonstrations, Practical work, Group work and reports.
A4	The need for the efficient and effective management of the process for software construction within an ethical and social framework.	Project work, Group work, Seminars, Lectures	Group work, project work, and reports.
A5	Computer networks; usability and interaction design, together with data management via database systems, and international standards and protocols. (CI).	Lectures, Seminars, Practical session	Reports, Presentations, Group work, Examination.

B. Cognitive (Intellectual or Thinking) skills, able to:			
LO number	**Learning outcome**	**Learning and Teaching methods**	**Assessment methods**
B1	Apply an intellectual, analytical, creative problem-solving nature, and the ability to identify risks including safety aspects that may be involved in the deployment of complex computing systems within a given context.	Lectures, seminars, group work, practical work	Presentations, Examination Written, Project Work, Group Work and Set Exercises
B2	Demonstrate an ethical and critical awareness, which are necessary and appropriate for a reflective practitioner.	Lectures, Seminars, Practical Sessions	Project work, Project Reports, Group Work
B3	Develop a critical awareness of the effects upon the global society of technical and technological development and develop a proper self-updating sense of professional conduct in relation to society's increased dependence on technology.	Lecture, Seminar Practical Work, PDP	Set Exercise, Report, Group Work
B4	Plan, execute and professionally report on a major engineering project.	Lecture, Project Supervisor Meetings	Project Artefact Development, Project report.

C. Practical (Professional or Subject) skills, able to:			
LO number	**Learning outcome**	**Learning and Teaching methods**	**Assessment methods**
C1	Critically evaluate and create appropriate, effective, robust and productive methods and tools for the successful construction, and timely delivery of valid computer-based systems.	Lectures, Seminars, Practical Work, Group Work	Project Work. Group Work Presentations Demonstrations, Examinations and Set Exercises
C2	Use industry standard software and hardware proficiently for specific purposes in the global environment.	Practical Work	Examinations, Set Exercise Reports
C3	Use programming skills in one or more programming environments	Lecture, practical sessions	portfolio, Set exercise (exam)
C4	Apply professional codes of conduct and appreciate the ethical considerations that underpin them.	Lectures, Tutorials,	Set Exercises, Coursework, Examinations
C5	Demonstrate experience productive capability by developing employability skills.	Practical sessions	Portfolio

D. Transferrable (Graduate and Employability) skills, able to:			
LO number	**Learning outcome**	**Learning and Teaching methods**	**Assessment methods**
D1	Communicate effectively in writing, speaking and in appropriate forms of presentation. Read, understand and analyse complex documents related to software products and system requirements.	lectures, seminars, group work,	Portfolios, Presentations Reports, Set exercise, Examinations
D2	Develop a high level of competence in Information Technology - Use information technology to handle data, simulation and assist with design and testing.	Lectures, Seminars, Practical Work, Group Work,	Set exercise (exam), Project Reports, Demonstrations
D3	Deal with the numerical data as might be found in typical computing applications. Assess problem domains and formulate appropriate problem-solving strategies.	Lectures, Seminars, Practical sessions	Written Exams, Set Exercises, Project Reports
D4	Build on previous experience in order to enhance personal development. Ability to work in teams to achieve goals efficiently and effectively but nevertheless be distinctively individual.	Seminars, Practical Session, Group work, Seminars, Lectures	Portfolios, set exercise (exam), reports, set Exercises Group Coursework, and Presentations
D5	Deliver appropriate outcomes in a timely fashion to a given standard	Practical sessions	Portfolio, Coursework

Academic Regulations

The current University of Portsmouth Academic Regulations: Examination & Assessment Regulations (Collaborative Courses) will apply to this course. Approved course exemptions can be found here.

Support for Student Learning

The University of Portsmouth provides a comprehensive range of support services for students throughout their course, details of which are available at the MyPort student portal.

In addition to these University support services this College students have access to the full range of Student Services if any concerns are raised around financial support or counselling. The student can be referred via their tutor or can make an appointment directly to the Inclusion mentor or counsellor, both of whom are available to handle any concerns in complete confidence. The college careers service is also available to students, who can make appointments when required.

Study coaches are also available to assist with students needing additional academic support through a referral system within the college. This is documented within the Collaborative Partner Operational Handbook.

Evaluation and Enhancement of Standards and Quality in Learning and Teaching

The University of Portsmouth undertakes comprehensive monitoring, review and evaluation of courses within clearly assigned staff responsibilities. Student feedback is a key feature in these evaluations, as

represented in our Policy for Listening to and Responding to the Student Voice where you can also find further information.

Reference Points

The course and outcomes have been developed taking account of:

- University of Portsmouth Curriculum Framework Specification
- University of Portsmouth Vision
- Office for Students Conditions of Registration
- University of Portsmouth Code of Practice for Work-based and Placement Learning
- Quality Assurance Agency UK Quality Code for Higher Education
- Quality Assurance Agency Qualification Characteristic Statements
- Quality Assurance Agency Subject Benchmark Statement
- Quality Assurance Agency Framework for Higher Education Qualifications
- Requirements of Professional and/or Statutory Regulatory Bodies: British Computer Society (BCS)
- Vocational and professional experience, scholarship and research expertise of the University of Portsmouth's academic members of staff
- National Occupational Standards

Changes to your course/modules

The University of Portsmouth has checked the information provided in this Course Specification and will endeavour to deliver this course in keeping with this Course Specification. However, changes to the course may sometimes be required arising from annual monitoring, student feedback, and the review and update of modules and courses.

Where this activity leads to significant changes to modules and courses there will be prior consultation with students and others, wherever possible, and the University of Portsmouth will take all reasonable steps to minimise disruption to students.

It is also possible that the University of Portsmouth may not be able to offer a module or course for reasons outside of its control, for example, due to the absence of a member of staff or low student registration numbers. Where this is the case, the University of Portsmouth will endeavour to inform applicants and students as soon as possible, and where appropriate, will facilitate the transfer of affected students to another suitable course.

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