



UNIVERSITY OF
PORTSMOUTH

COURSE SPECIFICATION

BEng (Hons) Civil Engineering

Academic Standards, Quality and Partnerships
Department of Student and Academic Administration

September 2021

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COURSE SPECIFICATION

Please refer to the [Course Specification Guidance Notes](#) for guidance on completing this document.

Course Title	<i>BEng (Hons) Civil Engineering</i>
Final Award	<i>BEng</i>
Exit Awards	<i>CertHE, DipHE</i>
Course Code / UCAS code (if applicable)	<i>U0177PYC</i>
Mode of study	<i>full time</i>
Mode of delivery	<i>Campus</i>
Normal length of course	<i>3 years, 4 years with placement</i>
Cohort(s) to which this course specification applies	<i>September 2021 intake onwards</i>
Awarding Body	<i>University of Portsmouth</i>
Teaching Institution	<i>University of Portsmouth</i>
Faculty	<i>Faculty of Technology</i>
School/Department/Subject Group	<i>School of Civil Engineering and Surveying</i>
School/Department/Subject Group webpage	<i>https://www.port.ac.uk/about-us/structure-and-governance/organisational-structure/our-academic-structure/faculty-of-technology/school-of-civil-engineering-and-surveying</i>
Course webpage including entry criteria	<i>https://www.port.ac.uk/study/courses/beng-hons-civil-engineering</i>
Professional and/or Statutory Regulatory Body accreditations	<i>Joint Board of Moderators</i>
Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level	<i>levels 4, 5, 6</i>

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 develop graduates equipped with the necessary skills and qualities to take roles within the Civil Engineering industry as professional engineers, and to provide an educational foundation upon which graduate engineers can build with further learning and experience in order to achieve higher professional status and responsibility.

The core elements of UK Standard for Professional Engineering Competence (UK-SPEC) are embedded in the programme learning outcomes. These are interpreted in the context of Civil Engineering as the following six key areas of learning:

- **Science and mathematics (SM)**

Understanding of mathematical methods appropriate to civil engineering and construction. Scientific principles underlying civil engineering and construction.

- **Engineering analysis (EA)**

Application of mathematical and engineering principles in the solution of practical problems relevant to civil engineering, including the use of software packages.

- **Design (D)**

Principles and practice of the design of solutions in civil engineering Assessment of alternative solutions Specification of final design.

- **Economic, legal, social, ethical and environmental context (ES)**

Knowledge of the business and management practices in the construction industry including personnel, health, safety and risk issues and sustainability and environmental considerations.

- **Engineering practice (EP)**

Investigation of cutting edge practice in civil engineering including fieldwork, laboratory skills, and materials Project planning management and implementation. Awareness of quality issues. Working effectively as part of a team and individually to achieve goals and develop responsibility and management.

- **Additional general skills (AS)**

Understanding of professional and ethical responsibility of Civil Engineers. Effective interpersonal and communication skills. General skills for enhancing professional and career development.

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	Fundamental concepts, principles and theories of core subjects relating to civil engineering (SM, EA, EP).	lectures, tutorials, laboratory work, fieldwork and site visits.	examinations and coursework.

A2	<i>Construction practice, economics and management (EA, ES, EP).</i>	<i>lectures, tutorials, laboratory work, fieldwork and site visits.</i>	<i>Examinations, coursework.</i>
A3	<i>Environmental considerations and constraints, sustainability and health and safety management (ES).</i>	<i>lectures, tutorials, laboratory work, fieldwork and site visits.</i>	<i>Examinations, coursework.</i>
A4	<i>The design process (D).</i>	<i>lectures, exercises and a design and management project.</i>	<i>reports, individual or group presentations</i>
A5	<i>The industrial context of engineering and the varied roles of engineers in industry through project work and or first -hand Experience (Sandwich students) (EP).</i>	<i>lectures, exercises and project work. industrial placement of one academic year</i>	<i>portfolios</i>

B. Cognitive (Intellectual or Thinking) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
B1	<i>Use mathematical and engineering analysis techniques to solve problems (SM, EA).</i>	<i>lectures, tutorials, practical work</i>	<i>examinations, coursework</i>
B2	<i>Conduct and report laboratory experiments and field investigations (EP).</i>	<i>laboratory exercises, fieldwork</i>	<i>coursework</i>
B3	<i>Synthesise information from a variety of sources in the solution of a design problem (D, AS).</i>	<i>individual and group projects</i>	<i>reports, individual or group presentations</i>
B4	<i>Plan, conduct and report on an individual project (ES, EP, AS).</i>	<i>individual project</i>	<i>reports, presentations</i>

C. Practical (Professional or Subject) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
C1	<i>Use surveying and soil investigation equipment (EP).</i>	<i>Fieldwork, laboratory exercises</i>	<i>coursework, reports</i>
C2	<i>Use standard and specialist laboratory equipment and/or diving equipment (EP).</i>	<i>Fieldwork, laboratory exercises</i>	<i>coursework, reports</i>
C3	<i>Use computers and IT tools for the solution of problems (EA).</i>	<i>computer practical/simulations</i>	<i>coursework, reports</i>
C4	<i>Design of civil engineering systems, components and processes (D, EP).</i>	<i>lectures, seminars and project work.</i>	<i>coursework, reports</i>

D. Transferrable (Graduate and Employability) skills, able to:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
D1	<i>Work effectively as an individual and as part of a team to achieve goals (ES, EP, AS).</i>	<i>group work, individual project</i>	<i>reports, individual or group presentations</i>

D2	<i>Communicate effectively in writing, orally, through graphical representations and drawing (EP, D, SM, AS).</i>	<i>lectures, seminars, group work</i>	<i>reports, individual or group presentations</i>
D3	<i>Apply analytical techniques to problem solving (EA, D).</i>	<i>lectures, tutorials, group work</i>	<i>coursework, reports</i>
D4	<i>Use IT to handle text, data, simulation and design (EA, D).</i>	<i>lectures, tutorials, computer practical work</i>	<i>coursework</i>

Academic Regulations

The current University of Portsmouth [Academic Regulations](#) will apply to this course. This also includes the [policy for recognition of prior learning](#).

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 course also provides

- Extensive induction programme introduces the student to the University and their course.
- Each student has a personal tutor, responsible for pastoral support and guidance.
- Excellent Laboratory/Teaching facilities.
- Student course and unit handbooks provide information about the course structure and University regulations etc.
- Feedback is provided for all assessments.
- Personal Development Planning (PDP) for all awards.
- Support prior to and during placements.
- Maths support

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 Strategy](#)
- [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](#) for **Engineering**
- [Quality Assurance Agency Framework for Higher Education Qualifications](#)
- Requirements of Professional and/or Statutory Regulatory Bodies: **Joint Board of Moderators**

- Vocational and professional experience, scholarship and research expertise of the University of Portsmouth's academic members of staff
- National Occupational Standards
- UK Standard for Professional Engineering Competence (UK-SPEC)
- Subject Benchmark Statements for Engineering

Disclaimer

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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