



UNIVERSITY OF
PORTSMOUTH

COURSE SPECIFICATION

BEng (Hons) Construction Engineering Management

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

March 2018

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COURSE SPECIFICATION

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

| | |
|---|--|
| Course Title | <i>Construction Engineering Management</i> |
| Final Award | <i>BEng(Hons)</i> |
| Exit Awards | <i>CertHE, DipHE.</i> |
| Course Code / UCAS code (if applicable) | <i>C0965S</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>from September 2019 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 & Surveying</i> |
| School/Department/Subject Group webpage | <i>http://www.port.ac.uk/school-of-civil-engineering-and-surveying/</i> |
| Course webpage including entry criteria | <i>http://www.port.ac.uk/courses/architecture-property-and-surveying/beng-hons-construction-engineering-management/</i> |
| Professional and/or Statutory Regulatory Body accreditations | <i>Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Chartered Institution of Highways and Transportation (CIHT) and the Institute of Highway Engineers (IHE).</i> |
| Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level | <i>Level 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 [Module Web Search](#) for further information on the course structure and modules.

Educational aims of the course

The [Course Specification Guidance Notes](#) include advice on what to include in this section.

The course aims to provide an educational foundation upon which graduate engineers can build with further learning and experience in order to achieve professional status and responsibility within the civil engineering and building construction industry. Hence the course will provide the knowledge base associated with construction management and engineering within the context of the construction industry.

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 | <i>Terminology and concepts of core subjects relating to civil engineering and their scientific basis</i> | <i>lectures, tutorials, laboratory work, fieldwork and site visits. Individual learning is supported by directed reading, tutorial and questions and worked examples.</i> | <i>Exams and coursework</i> |
| A2 | <i>Construction practice, economics and management including project management, contract law and the role of management functions</i> | <i>As above</i> | <i>Exams and coursework</i> |
| A3 | <i>Health, Safety and sustainability/environmental considerations and constraints including responsibilities of key duty holders</i> | <i>As above</i> | <i>Exams and coursework</i> |
| A4 | <i>The design process</i> | <i>lectures, exercises and a design and management project</i> | <i>Coursework reports</i> |
| A5 | <i>(sandwich students) The industrial context of</i> | <i>experience and</i> | |

| LO number | Learning outcome | Learning and Teaching methods | Assessment methods |
|-----------|--|---|--------------------|
| | <i>engineering and the varied roles of engineers in industry through first hand experience</i> | <i>observation on an industrial placement of one academic year.</i> | |

Add additional rows as required.

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</i> | <i>developed through lectures supported by work examples, practical work and case studies</i> | <i>Exams and coursework</i> |
| B2 | <i>Conduct and report laboratory experiments and field investigations</i> | <i>a range of laboratory exercises and fieldwork</i> | <i>Coursework reports</i> |
| B3 | <i>Synthesise information from a variety of sources in the solution of a design problem</i> | <i>A design project requires students to draw upon a wide range of sources in order to formulate a practical solution.</i> | <i>As above</i> |
| B4 | <i>Plan, manage and undertake a report on an individual project</i> | <i>individual and group projects</i> | <i>As above</i> |

Add additional rows as required.

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</i> | <i>Fieldwork (e.g. surveying) and soils and materials laboratory investigations</i> | <i>Coursework reports</i> |
| C2 | <i>Use standard and specialist laboratory equipment and/or diving equipment</i> | <i>As above</i> | <i>As above</i> |
| C3 | <i>Identify construction project development issues and exercise informed judgement in the selection of appropriate assessment and control strategies to</i> | <i>Project work designed to mimic real-life</i> | <i>Coursework reports</i> |

| LO number | Learning outcome | Learning and Teaching methods | Assessment methods |
|-----------|---|--|--------------------|
| | <i>manage risk.</i> | <i>scenario</i> | |
| C4 | <i>Use computers for the solution of problems</i> | <i>Use is made of CAD and other computer software to develop designs</i> | <i>As above</i> |

Add additional rows as required.

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</i> | <i>Individual and group based practical and project work</i> | <i>written reports and presentations</i> |
| D2 | <i>Communicate effectively in writing, orally, through graphical representations and drawings</i> | <i>As above</i> | <i>As above</i> |
| D3 | <i>Apply analytical techniques to problem solving</i> | <i>As above</i> | <i>As above</i> |
| D4 | <i>Use IT to handle text, data, simulation and design</i> | <i>Use is made of CAD and other computer software to develop designs</i> | <i>Coursework reports</i> |
| D5 | <i>Communicate in a foreign language (student selecting language option)</i> | <i>Lectures and tutorials</i> | <i>Exams and coursework</i> |

Add additional rows as required.

Academic Regulations

The current University of Portsmouth [Academic Regulations](#) will apply to this course.

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.

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:

Insert additional reference points or delete as required

- [University of Portsmouth Curriculum Framework Specification](#)
- [University of Portsmouth Education Strategy 2016 - 2020](#)
- [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 \(February 2015\)](#)
- [Quality Assurance Agency Framework for Higher Education Qualifications](#)
- Requirements of Professional and/or Statutory Regulatory Bodies: **UK Joint Board of Moderators (JBM)**
- 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) 2013
- Engineering Council Accreditation of Higher Engineering Programmes (AHEP3)

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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Document details

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|---------------------------------------|--------------------------------|
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| Minimum student registration numbers | <i>20</i> |