This document provides a definitive record of the main features of the programme and the learning outcomes that a typical student may reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities provided. This programme specification is intended as a reference point for prospective students, current students, external examiners and academic and support staff involved in delivering the programme and enabling student development and achievement.

<table>
<thead>
<tr>
<th>Programme Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Programme Title</strong></td>
</tr>
<tr>
<td><strong>Award(s)</strong></td>
</tr>
<tr>
<td><strong>Programme Code</strong></td>
</tr>
<tr>
<td><strong>Associateship</strong></td>
</tr>
<tr>
<td><strong>Awarding Institution(s)</strong></td>
</tr>
<tr>
<td><strong>Teaching Institution(s)</strong></td>
</tr>
<tr>
<td><strong>Faculty</strong></td>
</tr>
<tr>
<td><strong>Department</strong></td>
</tr>
<tr>
<td><strong>Main Location of Study</strong></td>
</tr>
<tr>
<td><strong>Mode and Period of Study</strong></td>
</tr>
<tr>
<td><strong>Cohort Entry Points</strong></td>
</tr>
<tr>
<td><strong>Relevant QAA Benchmark Statement(s) and/or other external reference points</strong></td>
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<tr>
<td><strong>Total Credits</strong></td>
</tr>
<tr>
<td><strong>FHEQ Level</strong></td>
</tr>
<tr>
<td><strong>EHEA Level</strong></td>
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<tr>
<td><strong>External Accreditor(s)</strong></td>
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</table>
Accreditation renewal: 2020
Institute of Highway Engineers (IHIE)
Accreditation received: 2016
Accreditation renewal: 2020
The Chartered Institute of Highways &
Transportation (CIHT)
Accreditation received: 2016
Accreditation renewal: 2020

<table>
<thead>
<tr>
<th>Specification Details</th>
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<tbody>
<tr>
<td>Student cohorts covered by specification</td>
</tr>
<tr>
<td>Person responsible for the specification</td>
</tr>
<tr>
<td>Date of introduction of programme</td>
</tr>
<tr>
<td>Date of programme specification/revision</td>
</tr>
</tbody>
</table>

**Programme Overview**

This MSc course is offered jointly with University College London (UCL).

The objectives of this course are:

- To provide a systematic understanding of the causes and motivations of personal travel and good movement and of the means by which movement takes place;
- To provide a thorough grounding in techniques for analysing transport problems and developing and implementing policies and measures for resolving such problems;
- To develop appreciation of the importance and methods of evaluating transport projects, plans and policies, taking into account the political, social, environmental, commercial and financial issues involved.

In pursuit of these objectives, the course places emphasis on road and rail transport in the more industrialised countries, whilst recognising the important roles of other forms of transport and interchange with them, and the different context in which transport problems present themselves in less industrialised countries. Subject to this emphasis, the fundamentals are addressed in ways that are relevant to all means of transport and to every kind of society. The course is designed to equip its graduates for work in transport planning, engineering, operations, management, policy and research.

All of our MSc courses are career-orientated and cover both theoretical background and practical design considerations. Lectures are given mainly by full-time staff but important contributions are made by visiting professors and guest lecturers who are eminent industrialists.

Many of our students continue their studies to undertake research towards a PhD.

**Learning Outcomes**
The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial College degree programme. The Graduate Attributes are available at: www.imperial.ac.uk/students/academic-support/graduate-attributes

Knowledge and Understanding of:

- A selection of the major topics in the subject, their recognition and underlying fundamental principles.
- 2 Research techniques which might include information retrieval, experimental design and statistics, modelling and safety.
- The essential facts, concepts, principles and theories relevant to the students’ chosen areas of research.
- Management and communication skills, including problem definition, project design, decision processes, teamwork, written and oral reports, and scientific publications.

Intellectual/Thinking Skills:

- Analyse and solve problems using a multidisciplinary approach, applying professional judgements to balance costs, benefits, safety and social and environmental impact.
- Integrate and critically evaluate information
- Formulate and apply appropriate solutions
- Plan, conduct and write-up a programme of individual research.

Practical Skills:

- Plan and execute safely a series of experiments or computations.
- Use laboratory methods or computer-based tools to generate data.
- Analyse results, determine their strength and validity, and make recommendations.
- Prepare technical and design reports.
- Give technical presentations
- Use the scientific literature effectively.

Transferable Skills:

- Communicate effectively through oral presentations, computer processing and presentations, and written reports.
- Apply knowledge and modelling skills.
- Management skills: decision processes, objective criteria, problem definition, project design and evaluation needs.
- Integrate and evaluate information from a variety of sources.
- Transfer techniques and solutions from one discipline to another.
- Use Information and Communications Technology.
- Manage resources and time.
- Learn independently with open-mindedness and critical enquiry.
- Learn effectively for the purpose of continuing professional development.

Entry Requirements

| Academic Requirement | Normally a 2.1 UK Bachelor’s Degree with Honours in a relevant subject (particularly in |
subjects such as Civil Engineering, as well as other branches of Engineering, Natural Sciences, Earth Sciences and other numerate disciplines).

<table>
<thead>
<tr>
<th>Non-academic Requirements</th>
<th>Applicants with relevant industrial and professional experience may also be considered.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Requirement</td>
<td><strong>Standard requirement</strong>&lt;br&gt;IELTS 6.5 with a minimum of 6.0 in each element or equivalent.</td>
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</tbody>
</table>

Applicants may be invited to interview with one or more members of staff, or to undertake additional entry assessments as appropriate.

The programme’s competency standards document can be found at: [http://www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/civil/public/msc/Competency-Standards.pdf](http://www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/civil/public/msc/Competency-Standards.pdf)

### Learning & Teaching Strategy

<table>
<thead>
<tr>
<th>Scheduled Learning &amp; Teaching Methods</th>
<th>Lectures&lt;br&gt;Tutorials&lt;br&gt;Group Discussions and Group work&lt;br&gt;Presentation skills&lt;br&gt;Progress tests&lt;br&gt;Computer laboratory sessions&lt;br&gt;Practical work&lt;br&gt;Individual research project&lt;br&gt;Seminars and Workshops&lt;br&gt;Site Visits</th>
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</thead>
<tbody>
<tr>
<td>E-learning &amp; Blended Learning Methods</td>
<td>Blackboard Learn (VLE)&lt;br&gt;Online assignments and coursework&lt;br&gt;Anonymous feedback evaluations</td>
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<tr>
<td>Project Learning Methods</td>
<td>Group coursework&lt;br&gt;Individual research project&lt;br&gt;Research Methodology teaching</td>
</tr>
</tbody>
</table>

### Assessment Strategy

To complete the requirements of the degree, all assessments must be undertaken to the appropriate level and include the following:

- Individual and group coursework assignments
- Written examinations
- A research dissertation and poster
- Group projects and presentations

### Academic Feedback Policy
The following are the mechanisms in place for providing prompt feedback to students on their performance in coursework and examinations and processes for monitoring:

1. Coursework, marked and annotated by academic staff, is given back to students to a three-week return schedule, sometimes with the assistance of trained GTAs.
2. Academic staff may also provide verbal feedback in class, or distribute written overviews.
3. Provisional feedback, in the form of a verbal report by the Personal Tutor, is given to all students following the July Sub-Board of Examiners meeting.

Re-sit Policy


Mitigating Circumstances Policy


Programme Structure

<table>
<thead>
<tr>
<th></th>
<th>Pre-session</th>
<th>Term One</th>
<th>Term Two</th>
<th>Term Three</th>
<th>Term Four</th>
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<td>Elective Modules</td>
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Two-Years Part-time (recommended attendance)

All new students attend compulsory special sessions for the first two weeks of the term

<table>
<thead>
<tr>
<th></th>
<th>Autumn Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>CI9-T-01 – Transport and its Context</td>
<td>Two Transport option modules of your choice</td>
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<tr>
<td>CI9-T-02 – Quantitative Methods</td>
<td>Select Research Dissertation topic</td>
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<tr>
<td>CI9-T-05 – Transport Demand and its Modelling</td>
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<td></td>
</tr>
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</table>

Year 2

<table>
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<tr>
<th></th>
<th>Autumn Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>CI9-B1 – Microeconomic Theory</td>
<td>CI9-B3 – Project Management</td>
<td></td>
</tr>
<tr>
<td>CI9-B5 – Innovation in Civil Engineering</td>
<td>CI9-B4 – Business Environments and Construction Law</td>
<td></td>
</tr>
<tr>
<td>CI9-T-04 – Transport Economics</td>
<td>Continue to work on and submit Research Dissertation</td>
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</table>

Three-Years Part-time (recommended attendance)

All new students attend compulsory special sessions for the first two weeks of the term

<table>
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<tr>
<th></th>
<th>Autumn Term</th>
<th>Spring Term</th>
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</thead>
<tbody>
<tr>
<td>CI9-T-01 – Transport and its Context</td>
<td>One Transport option module of your choice</td>
<td></td>
</tr>
<tr>
<td>CI9-T-05 – Transport Demand and its Modelling</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Year 2
Autumn Term | Spring Term
---|---
CI9-T-02 – Quantitative Methods | One Transport option module of your choice
CI9-T-04 – Transport Economics | Select Research Dissertation topic

### Year 3

<table>
<thead>
<tr>
<th>Autumn Term</th>
<th>Spring Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI9-T-01 – Transport and its Context</td>
<td>CI9-B3 – Project Management</td>
</tr>
<tr>
<td>CI9-T-05 – Transport Demand and its Modelling</td>
<td>CI9-B4 – Business Environments and Construction Law</td>
</tr>
</tbody>
</table>

Continue to work on and submit Research Dissertation

The information provided in the following tables is indicative. Attendance may be tailored to meet the requirements of the student/employer.

### Part-Time Study

Part-time students should expect to be in full-time attendance during the two-week induction period in October of their first year of study. Thereafter attendance commitments are dependent on the timetabling of lectures, but on average equate to:
- Up to two days per week over two years
- One day per week over three years

Business Management units are taken in the final year of study, with registration based on satisfactory performance in the core Transport programme.

### Term Release

The Transport courses may be taken part-time, on a term-by-term basis, as follows:
[http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/term-release/](http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/term-release/)

### Assessment Dates & Deadlines

<table>
<thead>
<tr>
<th>Written Examinations</th>
<th>January 2018 [Business Management only] May 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coursework Assessments</td>
<td>Continuous</td>
</tr>
<tr>
<td>Project Deadlines</td>
<td>End of September 2018</td>
</tr>
<tr>
<td>Practical Assessments</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

### Assessment Structure

Marking Scheme

The Transport cluster assessments comprise three elements: examinations, coursework and the dissertation, all of which have to be satisfied separately.

The MSc degree is awarded to any candidate who achieves all of the following:

1. An aggregate mark of not less than 50% separately in all examinations **AND**
2. The submission of all set coursework and an aggregate mark of not less than 50% separately in all coursework **AND**
3. A mark of not less than 50% in the Special Study Project.

The elements above also apply to those taking Business Management, in which examinations and coursework results will be integrated into the overall examination and coursework elements.
Provided that all of the above criteria are satisfied, the MSc degree will be awarded in one of the following classifications:

**Pass**
A candidate must achieve an aggregate mark of 50% minimum in all examinations and associated coursework AND a minimum mark of 50% in the Special Study Project.

**Merit**
A Merit would normally be awarded when all the following criteria are met:
- The aggregate examination mark achieved at the first attempt is at least 60% and no individual examination mark achieved at the first attempt is less than 50%
- The dissertation mark achieved at the first attempt is at least 60%
- The aggregate coursework mark achieved at the first attempt is at least 60%

**Distinction**
A Distinction would normally be awarded when all the following criteria are met:
- The aggregate examination mark achieved at the first attempt is at least 70% and no individual examination mark achieved at the first attempt is less than 50%
- The dissertation mark achieved at the first attempt is at least 70%
The aggregate coursework mark achieved at the first attempt is at least 70%
## Module Weightings

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
<th>Weighting</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Autumn Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI9-T-01</td>
<td>Transport and its Context</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-02</td>
<td>Quantitative Methods</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-04</td>
<td>Transport Economics</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-05</td>
<td>Transport Demand and its Modelling</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-B1</td>
<td>Microeconomic Theory</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-B5</td>
<td>Innovation in Civil Engineering</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Term</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI9-T-07</td>
<td>Highway Engineering</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-T-09</td>
<td>Public Transport</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-11</td>
<td>Quantitative Techniques for Transport Engineering and Planning</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-14</td>
<td>Advanced Transport Modelling</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-19</td>
<td>Design of Accessible Transport Systems</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-T-20</td>
<td>Freight Transport</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-T-23</td>
<td>Air Traffic Management</td>
<td>6.67%</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-24</td>
<td>Ports and Maritime Transport</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-T-28</td>
<td>Railway Management, Operation and Engineering</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-T-29</td>
<td>Transport, Environmental Impacts and Safety</td>
<td>6.67%</td>
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<tr>
<td>CI9-B3</td>
<td>Project Management</td>
<td>6.67%</td>
<td>6</td>
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<tr>
<td>CI9-B4</td>
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<td></td>
<td><strong>Summer Term</strong></td>
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<tr>
<td>CI9-T-25</td>
<td>Special Study Project</td>
<td>33.33%</td>
<td>30</td>
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</table>

The spring term electives have been compiled into the following designated pathways to provide students with career pathway recommendations:

- Modelling and Analysis
- Transport Policy and Planning
- Institute of Civil Engineers Membership
- Freight Operations

**Pre- and Co-Requisites**

- T8, T2, T3 and T17 [not available to Business Management students]
- T11: T2 [part-time students must have completed T2 if selecting T11]
- T14: [requires both T5 and T11 to be taken]
- T24: [requires T20 to be taken]
## Indicative Module List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Core/Elective</th>
<th>L&amp;T Hours</th>
<th>Ind. Study Hours</th>
<th>Placement Hours</th>
<th>Total Hours</th>
<th>% Written Exam</th>
<th>% Course-work</th>
<th>% Practical</th>
<th>FHEQ Level</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI9-T-01</td>
<td>Transport and its Context</td>
<td>CORE</td>
<td>36</td>
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<td>Quantitative Methods</td>
<td>CORE</td>
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<td>6</td>
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<tr>
<td>CI9-T-05</td>
<td>Transport Demand and its Modelling</td>
<td>CORE</td>
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<td>CI9-B1</td>
<td>Microeconomic Theory</td>
<td>CORE</td>
<td>30</td>
<td>60</td>
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<td>33%</td>
<td>0%</td>
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<td>5</td>
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<tr>
<td>CI9-B5</td>
<td>Innovation in Civil Engineering</td>
<td>CORE</td>
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<td>5</td>
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<td>7</td>
<td>6</td>
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<td>6</td>
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<tr>
<td>CI9-T-11</td>
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<td>120</td>
<td>67%</td>
<td>33%</td>
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<td>7</td>
<td>6</td>
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<tr>
<td>CI9-T-14</td>
<td>Advanced Transport Modelling</td>
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<td>30</td>
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<td>0%</td>
<td>7</td>
<td>6</td>
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<tr>
<td>CI9-T-19</td>
<td>Design of Accessible Transport Systems</td>
<td>ELECTIVE</td>
<td>30</td>
<td>60</td>
<td>0</td>
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<td>6</td>
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<td>CI9-T-20</td>
<td>Freight Transport</td>
<td>ELECTIVE</td>
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<td>120</td>
<td>67%</td>
<td>33%</td>
<td>0%</td>
<td>7</td>
<td>6</td>
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<tr>
<td>CI9-T-23</td>
<td>Air Traffic Management</td>
<td>ELECTIVE</td>
<td>30</td>
<td>60</td>
<td>0</td>
<td>90</td>
<td>67%</td>
<td>33%</td>
<td>0%</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>CI9-T-24</td>
<td>Ports and Maritime Transport</td>
<td>ELECTIVE</td>
<td>40</td>
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<td>0</td>
<td>120</td>
<td>67%</td>
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<td>0%</td>
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<tr>
<td>Code</td>
<td>Code</td>
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<td>% Practical</td>
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<tr>
<td>CI9-T-28</td>
<td>CI9-T-28</td>
<td>Railway Management, Operation and Engineering</td>
<td>ELECTIVE</td>
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<td>44</td>
<td>0</td>
<td>66</td>
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<tr>
<td>CI9-T-29</td>
<td>CI9-T-29</td>
<td>Transport, Environmental Impacts and Safety</td>
<td>ELECTIVE</td>
<td>30</td>
<td>60</td>
<td>0</td>
<td>90</td>
<td>67%</td>
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<tr>
<td>CI9-B3</td>
<td>CI9-B3</td>
<td>Project Management</td>
<td>CORE</td>
<td>30</td>
<td>60</td>
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<tr>
<td>CI9-B4</td>
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<td>Business Law and Environments</td>
<td>CORE</td>
<td>30</td>
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<td>CI9-T-25</td>
<td>Special Study Project</td>
<td>CORE</td>
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<td>600</td>
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</tbody>
</table>
### Business Management

The option is designed to provide students with the ability to think about the business side of civil engineering, addressing innovation in civil engineering, microeconomics, business law, human resource management and project management, and to complement core technical MSc programme. Crossing all disciplines, it enables interaction and between students from other civil engineering MSc programmes and to broaden appreciation of the wider engineering business, its context and complexity.

Taught over the autumn and spring terms, the four modules that comprise Business Management are as follows, all or core to students registered for Business Management.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI9-B1</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>CI9-B5</td>
<td>Innovation in Civil Engineering</td>
</tr>
<tr>
<td>CI9-B3</td>
<td>Project Management</td>
</tr>
<tr>
<td>CI9-B4</td>
<td>Business Environments and Construction Law</td>
</tr>
</tbody>
</table>

### Entry requirements

We have a particular focus on mathematical and communication skills.

### Teaching Methods

- Group Exercises
- Lectures, tutorials, seminars
- Group self-evaluation
- Facilitated workshops

### E-learning & Blended Learning Methods

- Blackboard Learn (VLE)
- Online assignments and coursework
- Team Building activities
- Peer Evaluation
- Anonymous feedback evaluations
- Project “Crit” sessions

### Assessment Methods

To complete the requirements of the degree, all assessments must be undertaken to the appropriate level and include the following:

- individual and group coursework assignments;
- written examinations;
- Multiple-choice examinations
- group project presentations;
- team exercise and self-evaluation;
- interim and final project presentations.

### Academic Feedback Policy

Feedback is dependent on, and appropriate to, the activity under assessment. Academic staff and trained GTAs provide feedback using:

- Blackboard Learn (Bb) for online assessments;
- Web-PA for Peer Assessment [online];
- In-class assessment and feedback, review panels for crit sessions, weekly clinics;
- Written feedback on submitted coursework.
Supporting Information

The Programme Handbook is available at: [http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/msc-transport-engineering/](http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/msc-transport-engineering/)

The Module Handbook is available at: [http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/msc-transport-engineering/](http://www.imperial.ac.uk/civil-engineering/prospective-students/postgraduate-taught-admissions/transport-cluster/msc-transport-engineering/)

The College’s entry requirements for postgraduate programmes can be found at: [www.imperial.ac.uk/study/pg/apply/requirements](http://www.imperial.ac.uk/study/pg/apply/requirements)

The College’s Quality & Enhancement Framework is available at: [www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance](http://www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance)

The College’s Academic and Examination Regulations can be found at: [https://www.imperial.ac.uk/about/governance/academic-governance/regulations](https://www.imperial.ac.uk/about/governance/academic-governance/regulations)

Imperial College is an independent corporation whose legal status derives from a Royal Charter granted under Letters Patent in 1907. In 2007 a Supplemental Charter and Statutes was granted by HM Queen Elizabeth II. This Supplemental Charter, which came into force on the date of the College's Centenary, 8th July 2007, established the College as a University with the name and style of "The Imperial College of Science, Technology and Medicine". [http://www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/](http://www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/)

Imperial College London is regulated by the Higher Education Funding Council for England (HEFCE) [http://www.hefce.ac.uk/reg/register/](http://www.hefte.ac.uk/reg/register/)

Changes 2017-2018

To align with JBM accreditation recommendations, academic, practical and industry trends and needs, and to address relatively low attendance at the following modules:

- **CI9-T-10 Transport Safety and Risk Management**
- **CI9-T-16 Transport and the Environment**

Key material from both modules was combined into a new module covering two of the three JBM threads, namely Health and Safety Risk Management and Sustainability, was introduced, namely:

- **CI9-T-29 Transport, Environmental Impacts and Safety**

Our aim is to increase the number of students learning about these key topics and re-establish their importance to the MSc. Furthermore, it helps to streamline the number of optional modules and remove duplication.