# Programme Information

<table>
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<tr>
<th>Award</th>
<th>Length of Study</th>
<th>Mode of Study</th>
<th>Entry Point(s)</th>
<th>Total Credits</th>
<th>ECTS</th>
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<td>Full-time</td>
<td>Annually in October</td>
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The PG Certificate is an intermediate award that may be offered at the discretion of the Board of Examiners and is not available for entry. All students must apply to and join the MSc. A PG Diploma is not available as an exit award on this programme.

# Ownership

<table>
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<tr>
<th>Awarding Institution</th>
<th>Teaching Institution</th>
<th>Faculty</th>
<th>Department</th>
<th>Main Location(s) of Study</th>
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<td>Faculty of Natural Sciences</td>
<td>Centre for Environmental Policy</td>
<td>South Kensington Campus</td>
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# External Reference

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<th>EHEA Level</th>
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# External Accreditor(s) (if applicable)

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Specification Details

Programme Lead
Mike Tennant; Samira El Boudamoussi

Student cohorts covered by specification
2019-20 entry

Date of introduction of programme
October 2019

Date of programme specification/revision
January 2019

Entry Requirements

Academic Requirement
The minimum requirement is normally a 2:1 UK Bachelor’s Degree in any subject.
For further information on entry requirements, please go to https://www.imperial.ac.uk/study/pg/apply/requirements/pgacademic/

Non-academic Requirements
If you hold a lower class degree your application will be treated on a case-by-case basis and in accordance with the College’s MSc entrance requirements.

English Language Requirement
Higher requirement
Please check for other Accepted English Qualifications

Admissions Test/Interview
All shortlisted applicants will be interviewed either in person or online.

The programme’s competency standards documents can be found at: TBC

Programme Overview

The MSc in Environmental Technology will allow you to understand how scientific knowledge, defined in the broadest of senses, can be used in an interdisciplinary manner to address contemporary environmental and sustainability problems. You will be able to progressively build on your previous educational and professional knowledge, combining this with analytical problem-solving frameworks that focus on technology, policy and management.

The MSc in Environmental Technology comprises: a compulsory Core Course in the Autumn term; an elective “Option” in the Spring term that is chosen on application; and an independent research project throughout the Summer.

• You will study the Core Course during the Autumn term. Three modules provide a fundamental grounding in the natural and human worlds, and the interactions between them. Professional and transferrable skills, as part of the “Becoming an Independent Learner” (BIL) module, allow you to develop the confidence and resilience for life-long, independent learning. The BIL module extends through the Spring term and into the Summer term.

• During the Spring term you will join a smaller cohort of students and study one of the specialist “Options”, which you choose when applying for the Programme. This allows you to build on knowledge acquired from the Core Course and apply it with a career-oriented focus.

• You undertake an extended independent research project during the Summer term. This will allow you to study and gain greater depth in an area of personal interest.

The programme is delivered by academic and teaching staff from the Centre for Environmental Policy, draws on relevant experts from around Imperial College London, and brings in external practitioners with deep professional knowledge of their fields.

Graduates from the MSc Environmental Technology gain employment in a wide range of organisations, including businesses, consultancies, think-tanks, government and NGOs. We have an in-house careers advisor and work closely with the College Careers Service and alumni mentors to help students chart their future careers. Our
alumni network comprises over 5,000 former students working across a range of sectors and organisations around the world; alumni often deliver seminars, provide research projects, and offer advice or mentorship to current students.

Some students also choose to go onto further study, either in the CEP or at other institutions.

Programme Learning Outcomes

On completion of the MSc Environmental Technology programme you will be able to:

1. demonstrate a broad understanding of sustainability from a range of perspectives relevant to environmental technology
2. critically engage with a broad range of appropriate literature
3. critically engage with a range of quantitative and qualitative research methods
4. critically select from and use a range of problem-solving strategies and tools to tackle complex and unfamiliar ill-structured problems in a self-directed manner
5. gather, analyse, synthesise and critically evaluate appropriate information relevant to environmental technology and sustainability
6. critically assess evidence of impact from current sustainability policy and practice, and anticipate future risks in the context of evolving sustainability challenges
7. draw out original insights and develop creative solutions to sustainability problems
8. take responsibility for decision making, taking into account the trade-offs and ethical considerations inherent in decision-making
9. communicate effectively to a range of audiences using a variety of media
10. manage your own development in a range of appropriate transferable and professional skills
11. take responsibility for your own learning and develop confidence in your own abilities to tackle complex sustainability challenges.

On completion of the PG Certificate 1, you will be able to:

1. discuss and analyse the interdisciplinary nature of common sustainability problems (1; 2)
2. critically evaluate the legitimacy of different knowledge claims relevant to environmental technology (1;2)
3. critically evaluate the impact of common human-environment interactions on sustainability policy and practice (5; 6)
4. solve common sustainability problems in a skilled and confident way, independently and as part of a team (7; 10)
5. Identify and consider trade-offs in problem-solving and decision-making (5, 8).

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

Programme Learning & Teaching Approach

Learning and Teaching Delivery Methods
The MSc in Environmental Technology comprises: Compulsory Core Course in the Autumn term; a specialist “Option” that is chosen on application in the Spring term; and an extended research project throughout the Summer.

Over the course of the year you will experience a range of learning and teaching methods. Some of these will be common, for example the lectures, seminars and group work experienced by all students in the Core Course during Autumn term; and some may be specific to the specialist Option you enrol onto. Specific details can be found in the Core Course and module specification forms below.

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1 The PG Certificate is an intermediate award that may be offered at the discretion of the Board of Examiners and is not available for entry. All students must apply to and join the MSc. A PG Diploma is not available as an exit award on this programme.
Overall Workload
Your overall workload consists of face-to-face sessions and independent learning. While your actual contact hours will vary according to the Option you choose to study, the following gives an indication of how much time you will need to allocate to different activities at each level of the programme. At Imperial, each ECTS credit taken equates to an expected total study time of 25 hours. Therefore, the expected total study time for this 90 ECTS MSc programme is 2250 hours per year, subject to reasonable adjustments.

You will likely spend 50% of your time in class doing a variety of activities during the first two terms, depending on which Option you choose to study. The remainder of the time will be spent doing group work or individual study. The majority of the third term is spent on an individual research project.

Programme Assessment Strategy

Programme Assessment Methods

You will be assessed individually and in groups. The type of assessments used in the Core Course are common to all students, and vary in the Spring term depending on the specialist Option you enrol onto. Specific details can be found in the Core Course and Option sections below.

Term Overview

The following sections give an overview of the learning and teaching that take place each term.

Autumn Term

Core Course Overview

The Core Course presents a progressively more complex and in-depth understanding of the natural and human worlds and their interactions. It is highly interdisciplinary, providing an essential breadth of understanding across environmental technology and policy issues, as well as being a precursor to the specialist elective Options in the spring term. You will study three main modules, plus a module on transferable and professional skills called “Becoming an Independent Learner” (BIL), which is extended into the Spring term.

The Natural World is a compulsory module focused on science and technology. It will normally include subjects taken from ecosystems and ecological theory, climate change, air pollution, biogeochemical cycles, biodiversity and natural resources.

The Human World is a compulsory module that introduces aspects of economics and markets, consumption, and circular economy, environmental policy and governance, environmental law, demography, poverty, health and wellbeing.

The Human/Nature Interface is a core interdisciplinary module that uses problem-based case studies that will allow you to understand the interactions between the natural and human worlds. This may include urbanisation and sustainable cities; climate change impacts; forest management; fisheries management; agriculture; Sustainable Development Goals; policy instruments for sustainability.

The “Becoming an Independent Learner” module provides core elements to support you in your transition to professionals and life-long independent learners. It runs across all three terms, covers essential professional and transferable skills and normally includes information searching, career planning, presentation skills, and relaxation and resilience skills.

All modules are delivered by academic and teaching staff from the Centre for Environmental Policy. A full description of the modules is contained in the module specification forms.

Core Course Learning Outcomes

On completion of the Core Course you will be able to:

1. appreciate the interdisciplinary nature of sustainability (1)
2. examine critically the breadth of subjects covered (1; 2)
3. integrate and apply knowledge across disciplines with confidence (1; 2; 11)
4. apply the fundamental principles underpinning the human and natural world and their interactions to solve sustainability problems. (1)
5. engage in group learning and communication (9)
6. solve problems in a skilled and confident way, independently and as part of a team (7; 10)

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<th>Core Course Learning &amp; Teaching Approach</th>
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**Core Course Learning and Teaching Delivery Methods**

In the Core Course you will experience a range of learning and teaching methods, including independent study, interactive lectures, small group seminars (small group and independent learning), policy seminars with external speakers, practical computer lab-based problem solving, and online quizzes and assessments.

Much of the Core Course takes place with the whole cohort of c.150 students, but you will get to meet different groups of your cohort during the first weeks, e.g. in tutorial groups, small group seminar groups, Option groups and team building exercises, as well as informal networking after policy seminars.

The diversity of the backgrounds of students in each cohort means there is huge diversity in skills and experience to be learned from each other – we hope you will take advantage of that while you are on the programme.

**Core Course Overall Workload**

The expected total study time is 750 hours for Core Course, of which approximately 40% is contact time, including lectures, seminars and practical sessions, and 60% is spent on your own independent and group study. As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

**Core Course Assessment Strategy**

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<tr>
<th>Core Course Assessment Methods</th>
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The Core Course is intended to develop your interdisciplinary skills and summative assessments are focused around these aspects. Formative online tests used to provide you with personal feedback on how well you understand the concepts you are being exposed to.

A range of assessment methods are used:

- **Natural World** module: a group modelling + policy recommendations exercise.
- **Human World** module: a group poster and digital presentation with policy and regulatory recommendations.

Peer-assessment is normally used to identify individual contributions and to weight group marks.

**Spring Term**

You choose a specialist Spring Term “Option” when you apply for the MSc.

**Option Overview: Business and the Environment**

If you take the Business and the Environment Option (B&E) you will develop a critical understanding of how businesses currently tackle the challenges of sustainability, including the opportunities and risks that businesses face in the light of growing environmental constraints and social inequality.

You will use this knowledge to deal with the complex choices businesses face and develop models of best practice in contemporary thinking and practice for sustainable business. You will build on your knowledge of future sustainability challenges to develop business models that contribute to meeting these challenges.

Lecturers and seminars are delivered by professionals working in the field of sustainable business across a range of sectors. Lectures, case studies, and group work are delivered and facilitated by members of staff.

Graduates from the B&E Option go on to work in a wide variety of sectors and in different organizations, including as in-house CSR and sustainability practitioners, consultants, NGOs and government. A few set up their own business or go into further study.
**Option Learning Outcomes: Business and the Environment**

On completion of the *Business and the Environment* Option you will be able to:

1. gather, analyse, synthesise and critically evaluate knowledge of sustainability and business against contemporary and future environmental and societal challenges (1; 2; 5)
2. identify opportunities for sustainable business development and creation, and choose valid tools and methods to understand and explore them (4)
3. create valid, reliable and defensible solutions to contemporary and future business challenges (6; 7)
4. communicate effectively to a range of audiences using a variety of media (9; 10)
5. work effectively as individuals and as a team, taking responsibility for your own and group learning and performance. (8; 11)

**Option Learning & Teaching Approach: Business and the Environment**

**Option Learning and Teaching Delivery Methods: Business and the Environment**

In the *Business and the Environment* Option you will spend 50% of your time in class and 50% on group or individual work. Class-based sessions will normally include seminars, case studies, tutorial groups and team work exercises. You are expected to work effectively in groups and develop your own individual interests through extra reading.

**Option Overall Workload: Business and the Environment**

You will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study. As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

**Option Assessment Strategy: Business and the Environment**

**Option Assessment Methods: Business and the Environment**

Two group reports, one written report + a group presentation; and one delivered digitally;

An individual essay and personal development plan;

Peer-assessment is normally used to identify individual contributions and to weight group marks.

**Option Overview: Energy Policy**

By taking the *Energy Policy* Option you will engage with a wide spectrum of peers with backgrounds across the natural sciences, social sciences, engineering, economics, and other disciplines. You will be introduced to the key principles of engineering and physics which govern the energy sector (work, power, thermodynamics), to the fundamentals of economic and policy assessment (markets and behaviour), and to the integration of all of these components in whole-systems analysis. You will learn how energy generation, demand and decarbonisation pathways and other factors interact to shape the potential for transforming energy systems. You will develop a broad range of skills, balancing quantitative methods of techno-economic appraisal with a balanced approach to policy analysis and communication. Through lectures, backed up by external reading, coursework and field trips to visit several energy facilities, you will be provided with the opportunity to develop skills for complex problem-solving and interdisciplinary thinking, applied to analysing interconnected challenges such as geopolitical energy security and decarbonisation pathways.

**Option Learning Outcomes: Energy Policy**

On completion of the *Energy Policy* Option, you will be able to:

1) assess the key technical, economic, environmental and social characteristics that constrain the technological potential for transforming energy systems (1, 6)
2) critically discuss the regulatory frameworks which surround energy markets (1, 2)
3) develop policy analyses and recommendations in a broad range of areas across the energy sector (6)
4) conduct cost-benefit analyses of energy projects at different scales, and from different perspectives (4)
5) construct simple energy models and evaluate the possibilities and limitations of the modelling process (4, 6)
6) critically assess and justify the use of quantitative and qualitative research methods to reach conclusions taking into account methodological limitations (3)
7) produce clear, critical and authoritative reports, both on technical subjects and on policy issues (9)
8) confidently present results orally, at a level appropriate to your audience (9)
9) manage, participate and take the lead in multi-disciplinary teams, to successfully deliver project outputs (10, 11)

**Option Learning & Teaching Approach: Energy Policy**

**Option Learning and Teaching Delivery Methods: Energy Policy**
By taking the *Energy Policy* Option, you will be taught through a variety of learning and teaching methods. In addition to lectures by academic, industry, government and consultancy leaders, you will carry out group projects (enquiry-based learning), conduct numerical modelling in workshop-format (problem-based), and visit several energy facilities. You will tackle practical issues through problem-solving exercises, construct simple energy models, and investigate the possibilities and limitations of the modelling process.

**Option Overall Workload: Energy Policy**

In the *Energy Policy* Option, you will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

**Option Assessment Strategy: Energy Policy**

**Option Assessment Methods: Energy Policy**
In the *Energy policy* Option, you will be assessed through a variety of strategies including a written exam and coursework assessments. The coursework assessments will comprise:

- Two group presentations
- Two written reports

Peer assessment will normally be used to weight group work.

During the term there will be a formative multiple-choice exam to test and allow reflection on learning. At the end of the term there will be a summative exam, consisting of three quantitative and three qualitative questions drawn from across the option. More details can be found in the module specifications.

**Option Overview: Environmental Assessment and Management**

By taking the *Environmental Assessment and Management* Option you will gain a thorough understanding of the circular economy and the pathways that pollutants follow in the environment from source to receptor. You will be introduced to some of the most important tools and techniques in Environmental Assessment, Decision-Making and Management. Through group work and site visits, you will tackle technical and practical issues involved in waste and resource management, assess its contribution to sustainable development and the potential opportunities it generates for business.

The Veolia Waste Management Project (case study) provides the opportunity for you to work on a typical resource management consultancy problem. You will be part of the process in which analysis, synthesis and teamwork are required to produce a concise quality report and an oral presentation to a genuine client. You will develop skills in site investigation, chemical analysis, and the legislative environment.

The Hounslow Heath Project is a further case-study project demanding a different range of practical, analytical and team management skills to help provide solutions to a problem based on contaminated-land use. You will
develop skills in analysis, synthesis, risk-based decision making and presentation of a comprehensive and balanced report. The project is undertaken on behalf of a genuine client (Hounslow Borough Council) and team presentations are made to the client on completion of the project.

The overriding objective of the *Environmental Assessment and Management* Option is to train you to be effective team players in the often inter- and multidisciplinary environment of consultancies and related workplaces.

**Option Learning Outcomes: Environmental Assessment and Management**

On completion of the *Environmental Assessment and Management* Option, you will be able to:

1) distinguish the fundamental pathways and processes controlling the behaviour and fate of contaminants in environmental systems (1, 2);

2) design suitable field sampling strategies for the assessment of contaminant distributions in the near-surface atmosphere, surface and groundwater and soils (3, 4);

3) suggest appropriate sampling and analytical methods for inorganic and organic contaminants in different environmental media and liaise effectively with analysts and laboratories specialising in the analysis of individual contaminating substances (3, 4, 9);

4) organise data sets obtained from field sampling and laboratory analytical studies and configure these in a suitable format for higher level data analysis using a computer tool such as Geographical Information Systems (3);

5) use suitable computer models to evaluate critical pathways and processes of contaminant transport in the environment or to perform simulations of future impacts of contaminant releases from a variety of sources (5, 6);

6) understand and apply in detail the legal and policy framework within which quantitative environmental assessment activities are carried out and apply Environmental Impact Assessment (EIA) and auditing methodologies where appropriate (1, 2, 5);

7) enhance your own continuous development in a range of appropriate transferrable and professional skills (10, 11);

**Option Learning & Teaching Approach: Environmental Assessment and Management**

**Option Learning and Teaching Delivery Methods: Environmental Assessment and Management**

The learning and teaching approach of the *Environmental Assessment and Management* Option combines lecture and classroom sessions with group discussion, coursework project and field visits. The lecture and classroom sessions are led by external practitioners.

Group discussions will enhance your analytical skills and the group project will allow you to critically synthesise the content of the modules and create a best practice waste strategy.

Site visits give you the applications to real context situations where you will apply the practical aspects and physical and commercial constraints.

**Option Overall Workload: Environmental Assessment and Management**

In the *Environmental Assessment and Management* Option, you will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.
**Option Assessment Strategy: Environmental Assessment and Management**

Option Assessment Methods: Environmental Assessment and Management

In the *Environmental Assessment and Management* Option, you will be assessed by:

- A 2000-word essay based on group work and one-day field visits to four sites.
- Assessment by coursework based on a case study: Veolia Waste Management Project, in 2 phases:
  - ‘Phase 1’: group report and individual presentation.
  - ‘Phase 2’: ‘briefing note’ or executive summary.
- Individual technical report to a real client.

Peer assessment will normally be used to weight group work

**Option Overview: Environmental Economics and Policy**

A critical knowledge of environmental economics is a requirement for anyone dealing with environmental policy issues. Economic analysis has a key role to play, both in understanding why environmental problems arise, and in providing the basis for developing sustainable solutions. What are the underlying causes of tropical deforestation? How rapidly should we take action to deal with global warming? What is the most efficient way to tackle air pollution? These are some of the questions which environmental economists attempt to address, pointing to the need to link individual choices and patterns of behaviour to the underlying structure of the economy and its institutions. Economists argue that solutions require systematic changes to the economic incentives which drive human behaviour.

The demand for individuals with a good grounding in environmental economics, but also with a complementary understanding of other, non-market modes of environmental governance, continues to grow. Our graduates have gone on to exciting careers in government, industry, NGOs, consultancy and research applying economic ideas, concepts and methodologies to environmental problem-solving and policymaking. This Option aims to provide you with a broad but integrated survey of environmental economics and governance as fields of study and assist you in developing an ability to think about and analyse environmental problems in economically-literate and institutionally-informed terms.

**Option Learning Outcomes: Environmental Economics and Policy**

On completion of the *Environmental Economics and Policy* Option, you will be able to:

1. demonstrate a critical understanding of environmental sustainability from an economics and policy point of view (1)
2. read and critically engage with a broad range of appropriate literature on environmental economics and policy (2)
3. confidentially and critically select from and use a range of problem-solving strategies and tools commonly applied in environmental economics, policy and sustainability research to tackle complex and unfamiliar ill-structured problems in a self-directed manner (4)
4. critically assess evidence of impact from current environmental policy and practice, and anticipate future risks in the context of evolving sustainability challenges (6, 11)
5. justify the use of modelling choices taking into account the trade-offs and ethical considerations inherent to decision-making (8)

**Option Learning & Teaching Approach: Environmental Economics and Policy**

Option Learning and Teaching Delivery Methods: Environmental Economics and Policy

By taking the *Environmental Economics and Policy* Option, you will spend 50% of your time in class and 50% working on a group project. Class contact hours will include lectures, seminars and a research visit. Group projects are student driven and develop under the supervision of the Option convenors.
### Option Overall Workload: Environmental Economics and Policy

In the *Environmental Economics and Policy* Option, you will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

### Option Assessment Strategy: Environmental Economics and Policy

#### Option Assessment Methods: Environmental Economics and Policy

The assessments for the *Environmental Economics and Policy* Option will comprise:
- A timed 2000-word individual essay:
- A video presentation or 3000-word essay
- A 5000-word group essay.

Peer assessment will normally be used to weight group work.

### Option Overview: Environmental Resource Management

On the *Environmental Resource Management* Option you will spend the Spring term critically engaging with a range of tools, policies, and practices used for the sustainable management of environmental resources. Building on an understanding of ecosystem services from the Core Course, you will compare the management of different environmental resources, such as fisheries and marine ecosystems, agriculture and farming, forests and woodland, game and wildlife, biomass, soil and water. This will allow you to critically evaluate approaches and to develop recommendations for sustainable resource management.

Research-led case studies will be presented by academics as well as external experts and practitioners in evidence-based environmental resource management and decision making. You will work in groups to construct a scenario appraisal model and use this to make recommendations to address your chosen resource challenge. Field visits will enable you to gain first-hand experience of environmental management, engage with professionals and critically assess the practicalities of managing resources.

Students graduating from this Option will be well placed to make informed decisions relating to real-world problems concerning environmental and natural resource management and will be able to evaluate practical management Options. ERM graduates pursue a range of careers, including local and national government departments, NGOs, environmental consultancies and research institutions.

### Option Learning Outcomes: Environmental Resource Management

On completion of the Environmental Resource Management Option, you will be able to:

1. critically analyse environmental resource management challenges and approaches across a range of resources and global contexts (1)
2. compare the effectiveness of a range of analytical, research, and decision-making methods, as well as practical examples relevant to environmental resource management (4, 6)
3. generate outputs from models and analytical methods to inform appropriate solutions to environmental resource management challenges (3, 4, 8)
4. conduct independent and peer research, synthesise learning, trace connections and interactions between resources and approaches, map their knowledge to build a systemic view of environmental resource management (5, 11)
5. critically gather, analyse, and synthesise and evaluate information, presenting results in an appropriate and objective way (2, 5, 6)
6. write concise, clear, critical, and authoritative reports on environmental resource management issues, accessible for a range of audiences (9, 11)
7. reflect upon their experience, observation and learning, as well as the contribution of their peer and group (10, 11)
Option Learning & Teaching Approach: Environmental Resource Management

Option Learning and Teaching Delivery Methods: Environmental Resource Management

By taking the Environmental Resource Management Option you will spend 50% of your time on group or individual work, and 50% in class or on field trips. Class sessions will be delivered through 1) interactive and flipped-classroom sessions/lectures from experts and practitioners in ERM; 2) small group seminars and discussion groups; 3) labs and computer-based sessions; 4) Day field-trips. You will undertake a group modelling project, arranging your own working sessions. Additionally, you will be expected to complete preparatory activities for some sessions and follow up others with your own wider reading.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

Option Assessment Strategy: Environmental Resource Management

Option Assessment Methods: Environmental Resource Management

The assessments in the Environmental Resource Management Option will comprise:

A group modelling project assessed through a presentation and a written report

Two pieces of written coursework – an essay and a policy brief

Assessed contribution/participation to two group discussion sessions

A multiple-choice data interpretation exercise

Peer assessment will normally be used to weight group marks.

Option Overview: Global Environmental Change and Policy (GECP)

The overall aim of the Global Environmental Change and Policy Option is to provide you with the opportunity to become future, effective participants in addressing the grand challenges of global environmental change. You will do so by reference to current, leading environmental problem solvers. You will learn to apply the tools, methods, knowledge and critical analytical skills that are required to address these grand challenges with climate change as a focal point. This will include progressive regulatory and policy responses to global environmental change problem solving activities. The structure of the Option will support you to independently apply the necessary tools and methods to address GECP questions within an effective critical analytical framework. This is done through technical and corresponding contemporary regulatory and policy dialogues arranged into three main modules organised as follows:

1. **Baselining the Global Environmental Condition**: What are the nature and causes of global environmental change (GEC)?

2. **Methods for Tackling Global Environmental Change**: What are the disciplinary and interdisciplinary scientific bases and policy and legal frameworks to address GEC?

3. **Implementing Interdisciplinary Grand Challenge Solutions to Global Environmental Change**: What can and should be done about mitigating and adapting to GEC?

Option Learning Outcomes: Global Environmental Change and Policy

On completion of the Global Environmental Change and Policy Option, you will be able:

1. demonstrate a broad, critical interdisciplinary understanding of climate change and other key issues in global environmental change from multi stakeholder perspectives (1)

2. read and critically engage with a broad range of appropriate literature (2)
3. critically select from and use a range of quantitative and qualitative research methods, tools, and strategies to tackle complex and unfamiliar global environmental change (e.g., climate change) problems in a self-directed manner (3; 4)
4. identify, critically analyse and synthesise information pertaining to the key drivers of climate change and other global environmental change issues in order to anticipate future global environmental challenges and the level of risk that they may carry (5; 6)
5. formulate original insights and produce creative solutions taking account of existing global environmental change standards (7)
6. critically assess the trade-offs and ethical considerations inherent in decision-making for stakeholders individually and collectively (8)
7. critically evaluate modelling results and research findings in a stakeholder and multi-stakeholder negotiation pertaining to selected global environmental problem solving issues (4; 9)
8. maintain and enhance continuous improvement of understanding of the field by reference to self-professional management tools (10; 11)

**Option Learning & Teaching Approach: Global Environmental Change and Policy**

**Option Learning and Teaching Delivery Methods: Global Environmental Change and Policy**

You will be expected to actively participate in class, group and coursework in order to develop understanding, skills and capabilities in global environmental change taking particular account of climate change.

50% of the class time will be devoted to lecture and seminar presentation formats and the other 50% will be concerned with individual, small group and plenary critical analysis, peer-to-peer learning and simulated discipline and stakeholder role play sessions, in which a range of problem-solving methodologies are introduced and applied. Staff-student, peer-to-peer and small team problem solving interactions will be predominant features of class life with assessment processes drawn from these experiences.

**Option Overall Workload: Global Environmental Change and Policy**

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

**Option Assessment Strategy: Global Environmental Change and Policy**

**Option Assessment Methods: Global Environmental Change and Policy**

The assessments in the Global Environmental Change and Policy Option will comprise:

- Panel Project
- Negotiation exercise (video) & class participation
- Individual problem solving assessment. The assessment involves writing two short reports requiring the critical assessment of interdisciplinary scientific and policy material related to a specific situational context.

Peer assessment will normally be used to weight group work

**Option Overview: Integrated Water Management**

The aim of the Integrated Water Management Option is to cater for a variety of different learner requirements and aspirations to ensure that they develop the knowledge and skills necessary to make a significant contribution to water management. You will gain a thorough understanding of water systems and of the complex interrelationships between the environment, economics, policy and uncertainty in water management. You will appreciate the operational issues of a major water company and the complex environment in which it operates. You will be introduced to some of the most important tools and techniques in Integrated Water Decision-Making and Management. Through group work and site visits, you will gain insight into the latest challenges in integrated water management, policy and practice, and engage with individuals and organisations to familiarise themselves with the most recent developments in IWM.
The Anglian Water Project (case study) provides the opportunity for you to develop the knowledge and skills required to meet Water Industry needs. You will develop knowledge of water operations in terms of collection, treatment and distribution of water and understanding of wastewater in terms of collection, treatment and disposal, while gaining understanding of the organisation and management of the Water Industry in the UK. Through this project, you will be part of the process in which analysis, synthesis, and teamwork are required to produce a concise quality report and oral presentation to a genuine client. You will develop key skills in site investigation, policy analysis, and the legislative environment.

The Hounslow Heath Project is a further case-study project demanding a different range of practical, analytical and team management skills to help provide solutions to a problem based on contaminated-land use. You will develop skills in analysis, synthesis, risk-based decision making and presentation of a comprehensive and balanced report. The project is undertaken on behalf of a genuine client (Hounslow Borough Council) and team presentations are made to the client on completion of the project.

Throughout this Option, the teaching and learning stresses the need to act within and with the guidance of relevant national and international legislative frameworks. It is also important to develop an appreciation of the way in which requirements and preferred management options may be driven by policy developments. The ultimate aim of this Option is to prepare you for employment in environmental consultancies and other occupational areas (such as local authorities, government departments and NGOs) in which broad, knowledgeable management skills are needed.

**Option Learning Outcomes: Integrated Water Management**

On completion of the *Integrated Water Management* Option, you will be able to:

1) distinguish the fundamental pathways and processes controlling environmental systems, and develop insights into the pressures on water systems and impacts to water security (1, 2, 7)

2) gather, synthesise and critically evaluate knowledge of sustainable integrated water management techniques in the face of current and potential future environmental challenges at both the global and local level (2, 4, 5)

3) identify the benefits and drawbacks provided by such techniques, investigating and understanding their impacts on different stakeholders, including the pressures that may be driving other cooperating partners (6)

4) use decision-making tools to create valid, reliable and defensible solutions to water management challenges, taking into account current and probable future risks, pressures and social justice (4,6)

5) work professionally within an organisation, cooperating with others and communicating ideas in oral and written form to people from a wide range of differing backgrounds (9)

6) work effectively as individuals and as a team, taking responsibility for own development as well as group learning and performance at both levels (11).

**Option Learning & Teaching Approach: Integrated Water Management**

The learning and teaching approach of the *Integrated Water Management* Option combines lecture and classroom sessions with group discussion, coursework project and field visits.

Group discussions will enhance students’ analytical skills and the group projects allow students to critically synthesise the content of the modules to create a best practice water management strategy.

Site visits give students the applications to real context situations where they can apply the practical aspects and physical and commercial constraints.

**Option Overall Workload: Integrated Water Management**

In the *Integrated Water Management* Option, you will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.
**Option Assessment Strategy: Integrated Water Management**

**Option Assessment Methods: Integrated Water Management**

In the *Integrated Water Management* Option, you will be assessed as follows:

- A 2000-word essay based on group work and one-day field visits to four sites.
- A group consultancy report based on a case study project which simulates a typical problem given to consultants in water management.
- A group presentation of the consultancy report to a potential client
- Individual technical report to a real client.

Peer assessment will normally be used to weight group work

**Option Overview: Urban Sustainable Environments**

The *Urban Sustainable Environments* (USE) Option will introduce you to the relationship between urban environments, their functionality and several key aspects of human health. Recognizing the challenges of urban growth worldwide, you will participate in trans-disciplinary dialogues about the opportunities and solutions to foster sustainable and healthy urban environments in a field that is intrinsically multidisciplinary.

In this Option you will address the ‘workings’ of cities to identify important and often challenging urban sectors such as energy, water, waste, transport and land use planning, and assess the interplay between the built, natural and social environments. Sectors will be analysed and studied through proposed solutions, stressing the need for holistic thinking and integrated assessments. Example solutions will include technological approaches such as for smart mobility, land use planning practices such as green space provision, transport policies such as active travel infrastructure, and societal engagement to ensure citizen buy-in.

To address the question “how can cities be smart cities?” the flow (relationships) between the individual, government and the environment in each sector will be studied, analysing the participation of each actor (individual, government and environment) in the solutions to urban challenges.

Lectures and seminars are delivered by professionals working across a range of urban-relevant sectors. Case studies and group work are delivered and facilitated by members of staff.

**Option Learning Outcomes: Urban Sustainable Environments**

**Option Learning and Teaching Delivery Methods: Urban Sustainable Environments**

On completion of the *Urban Sustainable Environments* Option, you will be able to:

1. critically discuss the key elements of city infrastructure and the challenges and opportunities that these present (1; 2)
2. map the interactions between the key bodies and groups that have influence over urban planning and systems and discuss the influential drivers of sustainable decision-making in an urban context (1)
3. undertake stakeholder mapping exercises and assess the routes to effective stakeholder engagement for sustainable decision-making (1)
4. evaluate and select potential solutions to urban-specific governance and policy challenges (4)
5. collaborate with peers to distribute and execute tasks; efficiently gather, analyse, synthesise and critically evaluate information in an appropriate and objective way (5; 10)
6. communicate with specialists and experts across a range of disciplines relevant to the urban infrastructure and produce management reports to advise relevant ‘clients’ (9)
7. evaluate the impact of urban planning and infrastructure on the health of urban populations (6)

**Option Learning & Teaching Approach: Urban Sustainable Environments**

The *Urban Sustainable Environments* Option comprises three modules that offer different approaches to learning and teaching to provide a varied learning experience. Content-driven lecture sessions to ensure key material is delivered in this 'in clear sight' format; field visits with external expert practitioners; discussion sessions of set reading materials and of field visits; briefing sessions; group and individual tasks; elements of self and peer evaluation. Together, approaching the teaching and learning experience in a diverse way that will introduce you to a range of experiences that you are likely to encounter in the world of work.
Option Overall Workload: Urban Sustainable Environments

In the Urban Sustainable Environments Option, you will spend approximately 50% of your time in the classroom, either in seminars, doing group exercises or presentations. The remainder of your time is spent on group work or individual study.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

Option Assessment Strategy: Urban Sustainable Environments

Option Assessment Methods: Urban Sustainable Environments

Assessment takes place at the module level, but is designed within the overall framework of the Option’s three modules to provide a coherent whole that assesses the range of skills considered within our learning outcomes.

The assessments for the Urban Sustainable Environments Option will comprise:

- A Case Study assessed via group and individual components
- Presentations to a client
- A field visit portfolio
- Open-book examination – individual
- An Advisory Briefing Note
- An individual timed essay

Peer assessment will normally be used to weight group work

Summer Term: Independent Research Project

Independent Research Project Overview

You will undertake a four-month independent research project from Easter until September, supervised by a member of staff. You will have the opportunity to gain a deeper academic understanding of an area of personal interest in sustainability and environmental technology.

Projects are normally developed based on your chosen Option studies, but may be developed independent of that. You may have the opportunity to work with academic research groups, on projects proposed or supported by external partners, or develop your own project.

It is expected that you will be able to draw novel insights from your area of study.

Independent Research Project Learning Outcomes:

On completion of this module, you will be able to:

- apply appropriate methodology to conduct a small-scale research project (4, 5)
- critically engage with a range of quantitative and qualitative research methods (3)
- draw out original insights from your research (7)
- understand the wider implications of your research (6)
- present your findings in written format (9)
- plan and take responsibility for your own learning (8, 11)

Independent Research Project Learning & Teaching Approach

Independent Research Project Learning and Teaching Delivery Methods

You are expected to work with an academic supervisor during the Independent Research Project term. Learning and teaching will be delivered by the supervisor where appropriate, but it is expected that you will take initiative in most cases and find out relevant information with minimal guidance.
**Independent Research Project Overall Workload**

You will be expected to work independently under the supervision of an academic member of staff for the duration of the Independent Research Project. This is a 40 ECTS module and the expected total study time is 1000 hours.

As these are indicative study times, you may need to make reasonable adjustments to these suggested times to account for your individual learning style.

**Independent Research Project Assessment Strategy**

**Independent Research Project Assessment Methods**

A 10,000-word research dissertation accounts for 100% of the mark. You are expected to attend regular formative meetings with your project supervisor(s) and to prepare appropriately for those meetings.

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**Academic Feedback Policy**

Written or verbal feedback will normally be provided within two weeks of the submission date for any assessed work, unless this falls over holiday periods, in which case coursework is returned at the start of the next term.

The College’s Policy on Academic Feedback and guidance on issuing provisional marks to students is available at: [www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/](http://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/)

**Re-sit Policy**


**Mitigating Circumstances Policy**


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**Additional Programme Costs**

This section should outline any additional costs relevant to this programme which are not included in students’ tuition fees.

<table>
<thead>
<tr>
<th>Description</th>
<th>Mandatory/Optional</th>
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<tbody>
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**Programme Structure**

**Year 1 - FHEQ Level 7**
All students study all core modules from Groups A (Core Course) and B (Research Project)

Students elect to take a specialist Option on enrolment and study all core modules in that Option Group:

**Business and the Environment: Group C**  
**Energy Policy: Group D**  
**Environmental Assessment and Management: Group E**  
**Environmental Economics and Policy: Group F**  
**Environmental Resource Management: Group G**  
**Global Environmental Change and Policy: Group H**  
**Integrated Water Management: Group I**  
**Urban Sustainable Environments: Group J**  

<table>
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<tr>
<th>Code</th>
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<th>Group</th>
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2 **Core** modules are those which serve a fundamental role within the curriculum, and for which achievement of the credits for that module is essential for the achievement of the target award. Core modules must therefore be taken and passed in order to achieve that named award. **Compulsory** modules are those which are designated as necessary to be taken as part of the programme syllabus. Compulsory modules can be compensated. **Elective** modules are those which are in the same subject area as the field of study and are offered to students in order to offer an element of choice in the curriculum and from which students are able to select. Elective modules can be compensated.
<table>
<thead>
<tr>
<th>Integrated Land and Water Quality Management</th>
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</table>

* ‘Group’ refers to module grouping (e.g. a group of electives from which modules must be taken).
Progression and Classification

Award and Classification for Postgraduate Students

Award of a Postgraduate Certificate (PG Cert)
To qualify for the award of a postgraduate certificate a student must have a minimum of 30 credits at Level 7. This may include a maximum of 10 credits from Level 6.

Award of a Postgraduate Degree (excluding MRes)
To qualify for the award of a postgraduate degree a student must have:
1. accumulated credit to the value of no fewer than 90 credits at level 7 or above of which no more than 15 credits may be from credit level 6;
2. and no more than 15 credits as a Compensated Pass;
3. met any specific requirements for an award as outlined in the approved programme specification for that award.

Classification of Postgraduate Taught Awards
The College sets the class of Degree that may be awarded as follows:
1. Distinction: The student has achieved an overall weighted average of 70.00% or above across the programme.
2. Merit: The student has achieved an overall weighted average of above 60.00% but less than 70.00%.
3. Pass: The student has achieved an overall weighted average of 50.00% but less than 60.00%.

a. For a Masters, students must normally achieve a distinction (70.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a distinction.
b. For a Masters, students must normally achieve a minimum of a merit (60.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a merit.
c. Modules taken at level 6 as part of the programme specification for a named postgraduate award will contribute to the determination of pass, merit or distinction for any taught postgraduate award and are included in the calculation of the overall weighted average.

Please find the full Academic Regulations at https://www.imperial.ac.uk/about/governance/academic-governance/regulations/
Please follow the prompts to find the set of regulations relevant to your programme of study.

Programme Specific Regulations
n/a
## Supporting Information

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<thead>
<tr>
<th>The Programme Handbook is available at:</th>
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<tr>
<td>The Module Handbook is available at:</td>
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<tr>
<td>The College’s entry requirements for postgraduate programmes can be found at:</td>
<td><a href="http://www.imperial.ac.uk/study/pg/apply/requirements">www.imperial.ac.uk/study/pg/apply/requirements</a></td>
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<tr>
<td>The College’s Quality &amp; Enhancement Framework is available at:</td>
<td><a href="http://www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance">www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance</a></td>
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<tr>
<td>The College’s Academic and Examination Regulations can be found at:</td>
<td><a href="http://www.imperial.ac.uk/about/governance/academic-governance/regulations">www.imperial.ac.uk/about/governance/academic-governance/regulations</a></td>
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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”.

[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 Office for Students (OfS)


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 primarily intended as a reference point for prospective and current students, academic and support staff involved in delivering the programme and enabling student development and achievement, for its assessment by internal and external examiners, and in subsequent monitoring and review.

## Modifications

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<th>Description</th>
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