Faculty of Natural Science
Department of Physics

MSc
Physics
Physics with Nanophotonics
Physics with Extended Research

STUDENT HANDBOOK
2018-19
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Welcome to the College

Congratulations on joining Imperial College London, the only university in the UK to focus exclusively on science, medicine, engineering and business.

From Fleming’s discovery of Penicillin to Gabor’s invention of holography, Imperial has been changing the world for well over 100 years. You’re now part of this prestigious community of discovery and we hope you will take this opportunity to make your own unique contribution.

We’re committed to providing you with the very best academic resources to enrich your experience. We also provide a dedicated support network and a range of specialist support services to make sure you have access to the appropriate help, whether that’s further training in an academic skill like note taking or simply having someone to talk to.

You’ll have access to an innovative range of professional development courses within our Graduate School throughout your time here, as well as opportunities to meet students from across the College at academic and social events – see page 6 for more information.

We actively encourage you to seek out help when you need it and try to maintain a healthy work-life balance. Our choice of over 380 clubs, societies and projects is one of the largest of any UK university, making it easy to do something different with your downtime. You also have access to gym and swimming facilities (following an annual fee of £30 in 2018-19) across our campuses.

As one of the best universities in the world, we are committed to inspiring the next generation of scientists, engineers, clinicians and business leaders by continuing to share the wonder of what we do through public engagement events. Postgraduate students, alongside our academics and undergraduate students, make a significant contribution to events such as our annual Imperial Festival and our term-time Imperial Fringe events – if you’re interested in getting involved then there will be opportunities for you to do so.
Our Principles

In 2012 the College and Imperial College Union agreed ‘Our Principles’ a series of commitments made between students and the College. The Principles are reviewed annually by the Quality Assurance and Enhancement Committee and changes recommended for Senate approval.

Imperial will provide through its staff:
- A world class education embedded in a research environment
- Advice, guidance and support
- The opportunity for students to contribute to the evaluation and development of programmes and services

Imperial will provide students with:
- Clear programme information and assessment criteria
- Clear and fair academic regulations, policies and procedures
- Details of full programme costs and financial support
- An appropriate and inclusive framework for study, learning and research

Imperial students should:
- Take responsibility for managing their own learning
- Engage with the College to review and enhance provision
- Respect, and contribute to, the Imperial community

The Imperial College Students' Union will:
- Support all students through the provision of independent academic and welfare assistance
- Encourage student participation in all aspects of the College
- Provide a range of clubs, societies, student-led projects and social activities throughout the year
- Represent the interests of students at local, national and international level

[www.imperial.ac.uk/students/our-principles](http://www.imperial.ac.uk/students/our-principles)
Welcome from the Graduate School

Professor Sue Gibson,  
Director of the Graduate School

The Graduate School has several roles but our main functions are to provide a broad, effective and innovative range of professional development workshops and to facilitate interdisciplinary interactions by providing opportunity for students to meet at academic and social events. Whether you wish to pursue a career in academia, industry or something else, professional skills development training will improve your personal impact and will help you to become a productive and successful researcher.

Professional development courses for Master’s students are called “Masterclasses” and they cover a range of themes, for example, presentation skills, academic writing and leadership skills (http://www.imperial.ac.uk/study/pg/graduate-school/professional-skills/masters/). All Masterclasses are free of charge to Imperial Master’s students and I would encourage you to take as many as you can to supplement your academic training. The Graduate School works closely with the Graduate Students’ Union (GSU) and is keen to respond to student needs so if there is an area of development training, or an activity that you would like us to offer, but which is not currently provided, please do get in touch (graduate.school@imperial.ac.uk).

The Graduate School also runs a number of exciting social events throughout the year which are an opportunity to broaden your knowledge as well as to meet other students and have fun. You should regularly check the Graduate School’s website and e-Newsletters to keep up to date with all the events and development opportunities available to you.

Finally, I hope that you enjoy your studies here at Imperial, and I wish you well.

Sue Gibson

Dr Janet De Wilde,  
Head of Postgraduate Professional Development

I would like to welcome you to the Graduate School programme for postgraduate professional development. Our team of tutors come from a wide variety of experiences and we understand just how important it is to develop professional skills whilst undertaking postgraduate studies and research. Not only will this development improve success during your time at Imperial College, but it will also prepare you for your future careers. We are continually working to develop the courses we offer and over this year you will see a range of new courses including face-to-face workshops, interactive webinars and online self-paced courses. I encourage you to explore and engage with the diverse range of opportunities on offer from graduate school and I wish you well in your studies.

Janet De Wilde
The Graduate School

You automatically become a member of the Graduate School when you register as a postgraduate student at Imperial.

The Graduate School has been set up to support all postgraduate students at the College through:

- Training and development courses
- Networking activities, social and academic events to encourage cross-disciplinary interactions
- Forums to represent the views of postgraduate students throughout the College

‘Masterclass’ professional skills courses

You can see the full range of free professional skills courses for postgraduate students on the Graduate School website:

www.imperial.ac.uk/study/pg/graduate-school/professional-skills/masters

All courses can be booked online.

Contact us

Level 3, Sherfield Building, South Kensington Campus
020 7594 1383
graduate.school@imperial.ac.uk
www.imperial.ac.uk/graduate-school
Welcome from the Graduate Students’ Union (GSU)

I am delighted to welcome you to Imperial College! Let me introduce you to the Graduate Students’ Union (GSU). We are the representative body defending your interests as a postgraduate student in major decisions taken by the College. Beyond that, we work towards building a thriving postgraduate community that spans faculties and where students effectively communicate in an interdisciplinary way. Our committee is comprised of motivated postgraduate students like yourself, who have been appointed in university-wide elections and volunteer to make your experience at Imperial as fulfilling and enjoyable as possible.

So, what are we up to for this coming year 2018/19? We are going to focus on three major areas of action:

- Continue improving post-graduate well-being by increasing the quality of supervision and by creating strategies to tackle common mental health challenges in higher education.
- Develop the GSU to become central to the postgraduate community by improving the two-way flow of information, between the GSU and you.
- Organise exciting events around the topics of well-being, interdisciplinary research, and entrepreneurship.

As the GSU president, I would like to emphasise that Imperial College London is relying on its postgraduate students to maintain its position as a front-runner in world-class research and teaching. For us, the GSU, to be successful we need to receive as much of your input as possible. We want to work with you, for you!

Finally, I hope that you have a fantastic time here at Imperial and take advantage of the richness of opportunities that awaits you. If ever you have questions or ideas to share with us, please do not hesitate to get in touch with us and we are looking forward to seeing you at our events!

Ute Thiermann, GSU President 2018/19

gsu.president@imperial.ac.uk
Welcome to Imperial College and I hope you have enjoyable time during your year in London while you are learning about physics.

The purpose of this handbook is to provide current students with a detailed description of the Physics programmes, including assessment and feedback mechanisms. This edition of the handbook applies to the academic year 2018-19. The Physics programmes have a relatively small number of students (in comparison to the undergraduate physics courses) and they have extensive access to the academic and support staff of the Department; students therefore should not hesitate to approach the Programme Director or any member of staff for advice or assistance.

This handbook describes the framework of the course and its assessment but the Programme Director may make changes to detailed procedures if the circumstances indicate this is desirable. Similarly, the Board of Examiners has absolute discretion to modify the criteria described in this handbook, although in practice this would only occur in exceptional circumstances. Students will be consulted on any changes prior to their introduction.
Academic and Administrative staff

Bill Proud
Programme Director/Director of Postgraduate Studies
B727
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w.proud

Rupert Oulton
Programme Organiser (Physics with Nanophotonics)
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Dave Clements
Programme Director
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d.clements

Andrew Williamson
Programme Administrator
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47631
andrew.williamson

(all emails are xxx@imperial.ac.uk)
English language requirement
If you are not a native English speaker you must meet the College’s English language requirements.

See the Admissions website for details:

www.imperial.ac.uk/study/pg/apply/requirements/english

For information on English language support available while you’re here, see page 31.

Attendance and absence
You must inform your Senior Postgraduate Tutor if you are absent from the College for more than three days during term. If the absence is due to illness you must produce a medical certificate after seven days. If you miss an examination through illness you must contact your Senior Postgraduate Tutor on the day and provide a medical certificate within five working days. If illness has impacted on your ability to take assessment, you should seek advice and support about making a claim for mitigating circumstances. Please note that there is a deadline of 5 working days from the date the assessment is due (hand-in date or examination date for example) to make a claim.

The Registry will be informed of all student non-attendances as the College is obliged to report the non-attendance of students on Tier 4 visas to the Home Office.

Your attendance will be monitored by registers at laboratory sessions, the submission of coursework, meetings with personal tutors and project supervisors and attendance at compulsory assessments such as examinations and project presentations. If the programme believes that your attendance is not satisfactory, or is concerned by your absence, efforts will be made to contact you.

Key dates 2018-19

Term dates
Autumn term: 29 September - 14 December 2018
Spring term: 5 January - 22 March 2019
Summer term: 27 April - 28 June 2019

Closure dates
Christmas/New year: 24 December 2018 – 1 January 2019
(College reopens on 2 January 2019)
Easter holiday: 18 April - 23 April 2019
(College reopens on 24 April 2019)
Early May bank holiday: 6 May 2019
Spring bank holiday: 27 May 2019
Summer bank holiday: 26 August 2019

Key events
Postgraduate Awards Ceremonies: May 2019
Imperial Festival and Alumni Festival: May 2019
2. Programme Information

Overview
The MSc in Physics and the streams in nanophotonics and extended research are designed to prepare BSc graduates for a research career; either PhD study or working in a research environment in industry or national laboratories.

The programmes includes a wide selection of lecture modules, including modules from the Department’s specialised postgraduate programmes and a module taken elsewhere in the College (with prior agreement). There is a laboratory skills training component and a chance to undertake a self-study project in an area of your choice. One-year students finish with a three-month, full-time project, usually with one of the academic research groups. Students on the extended research programme complete a longer project in the second academic year.

Graduates of these programmes are well qualified to apply their knowledge in a wide range of industrial contexts, as well as in a research environment. They find employment with a variety of careers in industry and many move on to doctoral studies at leading universities in the UK and abroad.

Aims and Objectives
By the end of this programme, the students will be able to:

1. Define the physical principles underlying a wide selection of physical phenomenon;
2. Describe the current state-of-the-art in selected areas of physics;
3. Critically evaluate the ‘state of the art’ in selected areas of physics;
4. Explain the appropriate mathematical techniques and select the correct tools for the physical phenomena at hand;
5. Design and construct experiments (which may be mathematical and computational) that explore the behaviour of physical systems and draw appropriate conclusions, including a calculation of the errors;
6. Explain orally and in writing the results of the research to a specialist and non-specialist audience;
7. Conduct appropriately supported independent scientific research.

Description of the Programmes
The general structure is as follows (please note that module dates may change):

Term 1: Lectures, Research Skills Training and Self Study Project.

Compulsory modules:

- Advanced Classical Physics (6 ECTS); unless the material in this module has been taught previously and with the agreement of the Programme Director, in which case another optional lecture module may be chosen.
- Mathematical Techniques (8 ECTS); unless the material in this module has been taught previously and with the agreement of the Programme Director, in which case another optional lecture module may be chosen. This module is offered by the Centre for Doctoral Training in Theory and Simulation of Materials and is called ‘Mathematics for Theory of Materials’ by their MSc programme.
- Self Study Project (6 ECTS); students undertake a literature review of a topic of their choice in physics. Students on the MSc in Physics with Nanophotonics will study a topic relevant to their stream (as agreed by the Programme Director).
- Research Skills Training (6 ECTS); a series of practical work and computer based classes and a short project covering:
- Labview and interfacing experimental equipment and a computer;
- Computational algebra and Mathematica;
- Numerical methods and Matlab.

*These activities may begin in term 1, depending upon equipment and timetabling constraints.*

- Students registered for the MSc in Physics with Nanophotonics have two extra compulsory modules in the first term, Imaging (6 ECTS) and Plasmonics and Metamaterials (6 ECTS). These replace two of the optional lecture modules.

- Selected professional skills courses offered by the Graduate School.

Optional modules:

- At least 30 ECTS of options from the level 3 and 4 list (including Optics and Photonics, Quantum Fields MSc or CDT lecture modules, with the agreement of the appropriate Programme Director) or level 3 list (6 ECTS each). A maximum of 12 ECTS (including Advanced Classical Physics) may be at level 3. The list of level 3 and 4 modules may be found at [https://www.imperial.ac.uk/natural-sciences/departments/physics/students/current-students/undergraduate-and-masters-degree-courses-list/](https://www.imperial.ac.uk/natural-sciences/departments/physics/students/current-students/undergraduate-and-masters-degree-courses-list/)

The lecture modules given by the other masters level programmes are usually listed on the appropriate programme website. **Permission of both the Programme Director and the Department offering the module must be granted prior to attending the module.**

**Term 2:** Lectures and Research Skills Training.

Compulsory modules:

- The remaining Research Skills Training modules.
- The Advanced Topics in Nanophotonics (6 ECTS) module is compulsory for students registered on the MSc in Physics with Nanophotonics. This module replaces one of the optional lecture modules.

Optional modules:

- The remaining optional lecture modules.
- The remaining Graduate School professional skills courses.

**Term 3 and summer period:** Detailed literature review and project work.

- Literature review and project plan (6 ECTS). The student submits a short literature review and project plan, outlining the proposed project work and the key literature.
- Full time project work (30 ECTS). The student completes a three month, full time research project. Students on the MSc in Physics with Nanophotonics will study a topic relevant to their stream (as agreed by the Programme Director).
- Students registered on the MSc in Physics with Extended Research complete and submit the literature review at the same time as the MSc in Physics students. The full time project (60 ECTS) is carried out during the second year and submitted towards the end of the academic year.

The timetable for the programme will be distributed using iCalendar.

**Professional Skills**

These programmes will develop professional skills valued in a working environment, such as team working, problem solving and presentation skills.

These activities are supported by the Graduate School courses. Details can be found at [http://www3.imperial.ac.uk/graduateschool/currentstudents/professionalskillsmasters](http://www3.imperial.ac.uk/graduateschool/currentstudents/professionalskillsmasters).

**Module Descriptions**

Information on the modules will be available in Blackboard and at the start of each module.
Teaching
The College standard working day is used, with 50-minute lectures commencing on the hour, starting at 09:00 at the earliest. Most are in the Blackett Laboratory in Lecture Theatres 2 and 3, though lectures on other programmes will be elsewhere in the Department and in College.

Project Selection
Self study projects are selected early in the first term. A list of projects with supervisors is presented, and students can approach the supervisor and both may agree on the project. If the student has their own idea for a project they can approach the Programme Director and, if it is agreed the student may approach potential supervisors (with help from the Programme Director if needed). If a student has difficulty finding a project, they should speak to the Programme Director.

The process is similar for summer projects. In February a list of project with supervisors is presented and students may select a project as above. Several projects may be offered by industrial companies or external research organisations; if a student is interested in these projects then a visit and interview are usually arranged prior to either party agreeing to the project – please note the company is not obliged to accept a student.

If you wish to arrange your own project you must speak to the Programme Director as soon as possible, and by the end of February at the latest. The Department needs to ensure that supervisory, health and safety and intellectual property issues are agreed before the project is approved. It is expected that most projects will have been arranged by the end of the second term, and all should be in place by the start of the examinations.

The projects are assessed by a final report (maximum of 20,000 words), which must be submitted by the date specified, a literature review, a poster presentation and a continuous assessment mark from the project supervisor. Students must submit two copies of the report (which do not need to be hard bound) and an electronic copy (in PDF format).

Where projects are pursued in industry, it is important that industrial supervisors ensure that confidentiality considerations will not prevent students from adequately reporting their work. If there is concern of commercial sensitivity, this must be raised at the outset of the project, so that the College can consider the issue at an early stage.

A list of some of recent projects is below:

MSc in Physics

- Supercomputer simulations of Earth’s magnetosphere;
- Interfacial socket pressure mapping for transtibial prosthetic limb under clinical settings;
- Transition from ordered to disordered states in active nematics;
- Improving tropical cyclone forecasting using neural networks;
- Optimisation of network geometries for quantum communications;
- The luminosity of the coolest stars;
- Analysis of semileptonic decays;
- Enhancing neutron imaging in a micro-composite scintillator cell;
- Observational probes of inflation theory;
- Digistain and cytosponge for early diagnosis of esophageal adenocarcinoma;
- Irradiation and testing of a depleted CMOS sensor (LF-CPIX) for the ATLAS inner tracker upgrade;
- Modelling emissions from comet 67P/Churyumov-Gerasimenko;
- Search for invisible Higgs boson decays in the vector bosonfusion mode using machine learning tools;
- Disordered lattice models of microtubule intracellular transport;
- Quantum computing and crypto-currency;
- Testing theories of ocean circulation against newly available data;
- Violation of Leggett-Garg inequalities with classical wave mechanics;
- Modelling sub-femtosecond X-ray generation from high harmonic generation;
- Modelling the vertical stellar distribution of the Milky Way;
- High-temperature magnetic properties of Sm-Co magnets;
- Detector requirements for hybrid optical quantum information;
- Simulating solar wind measurements with the Parker solar probe;
- Coherent phonon lasing in thermal quantum nanomachines;
- Quantum plasmonics in a small spherical particle;
- Design of a novel neutrino detector;
- Evaluation of the Path Integral calculation in quantum mechanics;
- Supercomputer Simulations of the Earth’s Magnetosphere.

MSc Physics with Nanophotonics

- Dispersion relation for magnetic hyperbolic metamaterials for different substrate designs;
- Measuring optical nonlinearies with z-scan;
- Topological metasurfaces;
- Wavefront shaping of femtosecond laser pulses;
- The origin of fluorescence in nanomaterials.

MSc in Physics with Extended Research

- Search for invisible decays of a Higgs Boson produced via VBF process at 13 TeV with CMS detector;
- Implementation and application of smooth robust quantum control;
- Characterisation of electrical properties of starch in the context of dust explosions;
- Entropy production and time reversal;
- The cosmic microwave background and its anisotropies;
- Hollow Fibre Pulsed Compressed (HFPC) lasers;
- Data mining the laws of physics.

Competency statement
The competency statement for the postgraduate taught programmes in the Physics Department may be found at

https://www.imperial.ac.uk/natural-sciences/departments/physics/students/current-students/taught-postgraduates/.

Imperial Mobile app
Don’t forget to download the free Imperial Mobile app for access to College information and services, including your programme timetable, College emails and a library catalogue search tool.

www.imperial.ac.uk/imperialmobile
**Imperial Success Guide**

The Imperial Success Guide is an online resource with advice and tips on the transition to Master’s level study. More than just a study guide, it is packed with advice created especially for Imperial Master’s students, including information on support, health and well-being and ideas to help you make the most of London.

[www.imperial.ac.uk/success-guide](http://www.imperial.ac.uk/success-guide)
3. Assessment

Requirements for Programme Completion

The MSc in Physics and the MSc in Physics with Nanophotonics are divided into two ‘elements’:

- Lecture modules - 52% of the total programme mark;
- Project work - 48% of the total programme mark.

The lecture modules element consists of the lecture. 6 ECTS of modules accounts for approximately 7.5% of the total programme mark.

The project work element consists of three components, the self-study project (6% of the total programme mark), the research skills training (6% of the total programme mark) and the project (36% of the total programme mark).

<table>
<thead>
<tr>
<th>MSc in Physics / with Nanophotonics</th>
<th>Element</th>
<th>Component</th>
<th>ECTS</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.</td>
<td>Lecture modules</td>
<td>42</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>2.</td>
<td>Project work</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-study project</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Research skills training</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Project</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>90</td>
<td>100</td>
</tr>
</tbody>
</table>

The MSc in Physics with Extended Research is divided into three elements:

- Lecture modules – 37.1% of the total programme mark;
- Project work (year 1) – 12.9% of the total programme mark;
- Project work (year 2) – 50% of the total programme mark.

The lecture modules element consists of the lecture modules. 6 ECTS of modules accounts for approximately 5.5% of the total programme mark.

The project work (year 1) element consists of three components; the self study project, the research skills training and the literature review and project plan (this allows the student to complete the element in the first academic year).

The project work (year 2) element consists of a single component.

<table>
<thead>
<tr>
<th>MSc in Physics with Extended Research</th>
<th>Element</th>
<th>Component</th>
<th>ECTS</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.</td>
<td>Lecture modules</td>
<td>42</td>
<td>37.1</td>
</tr>
<tr>
<td></td>
<td>2.</td>
<td>Project work (year 1)</td>
<td>6</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-study project</td>
<td>6</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Research skills training</td>
<td>6</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Project plan &amp; literature review</td>
<td>6</td>
<td>4.3</td>
</tr>
<tr>
<td></td>
<td>3.</td>
<td>Project</td>
<td>60</td>
<td>50</td>
</tr>
</tbody>
</table>
To pass the MSc, the candidate must achieve an aggregate mark of 50% or higher in each element of the MSc. In addition, they must have passed each component with a mark of 40% or higher.

A candidate can be considered for a Merit if the candidate has achieved an aggregate mark of ≥60%; and a mark of ≥60% for all but one of the elements and ≥50% for the remaining element.

A candidate can be considered for a Distinction if the candidate has achieved an aggregate mark of ≥70%; and a mark of ≥70% for all but one of the elements and ≥60% for the remaining element.

Resits for the written examinations may be held either late in the academic year (if offered) or at the next available opportunity, usually the following academic year. Students can select on which occasion they wish to resit the examinations (but College regulations allow only one resit, otherwise the student is deemed to have failed the programme). Students will retake the examinations for the specific subjects they have failed.

Assessment of the MSc

Draft examination papers are prepared by the lecturer, moderated by a second member of staff and sent in advance to the External Examiner of the programme who reviews them and suggests changes. After discussion with the module lecturers, these changes are usually incorporated into the final papers.

The programme marks are reviewed by meetings of the internal assessors. The College requires that individual students cannot be identified by staff present at Examiners meeting and they will be identified only when the results are presented after the External Examiners meeting and when the results are communicated to Registry.

The marks are then forwarded to the External Examiner for information. The Board of Examiners meet soon after the completion of the programme to review all the marks and make final recommendations to the College. It is traditional to send a copy of a selection of the project reports to the External Examiner in advance of this meeting, to provide additional information that might assist the decision process.

A separate meeting will consider any claims for mitigating circumstances (see below) and their recommendations will be reviewed by the appropriate Examiners meeting.

All candidates within 2.5% of a boundary will be considered for promotion by the Board of Examiners.

Written Examinations

For the level 3 and level 4 lecture modules the assessment is by written examination, with the MSc students sitting the examination with the MSci class. The exception is the Computational Physics and the Complexity and Networks modules (these will be explained at the start of the module).

Copies of the past undergraduate examination papers may be found at the ‘Examinations’ tab at https://www.imperial.ac.uk/natural-sciences/departments/physics/students/current-students/undergraduates/lecture-courses/ (login required).

MSc students taking modules offered by other masters programmes are assessed in the same manner as the other students on the modules.

Research Skills Training

The research skills training consists of four activities:

1. LabView and interfacing computers to hardware;
2. Computational algebra with Mathematica;
3. Numerical methods and Matlab;
4. Mini-Project.
Each activity contributes 25% of the component mark. The first three are assessed by exercises during the activity and the mini-project by a demonstration of the working system.

**Self-study Project**

The self-study module is assessed via oral presentation and a report.

The self-study report is marked by the supervisor.

The final mark for the self-study component is the weighted average of the oral presentation and the written report (weighting 1:4). The letter grade corresponding to this mark is formally fed back to the students.

**Mathematical Methods**

The assessment of the *mathematical methods* module is by problems sheets during the module (20% of the mark) and by written examination (80% of the mark).

**Project**

The project work is assessed by:

- The literature review and project plan (accounting for ~17% of the project mark);
- A project report (accounting for 50% of the project mark);
- A continuous assessment of the student, completed by the supervisor (accounting for ~17% of the project mark);
- Presentation of a poster (accounting for ~17% of the project mark);

For the MSc in Physics with Extended Research the project work is assessed by

- A project report (accounting for 60% of the project mark);
- A continuous assessment of the student, completed by the supervisor (accounting for 10% of the project mark);
- A progress review (accounting for 10% of the project mark);
- A viva with the supervisor and assessor (accounting for 20% of the project mark);

(The literature review and project plan is submitted at the end of the first year and contributes to the project work (year 1) element).

**Instruction to Candidates for Examinations**

Students who are candidates for examinations are asked to note that all examinations are conducted in accordance with the College’s Academic Regulations, the Regulations for Programmes of Study and the Examination Regulations.


**Academic Integrity and Academic Misconduct**

As your programme of study continues, you will be taught the concept of academic integrity and how you can ensure that any work that you complete now, or in the future, conforms to these principles. This means that your work acknowledges the ideas and results of others, that it is conducted in an ethical way and that it is free from plagiarism.

Academic misconduct is the attempt to gain an academic advantage, whether intentionally or unintentionally, in any piece of assessment submitted to the College. This includes plagiarism, self-plagiarism, collusion, exam offences (cheating) or dishonest practice. Full details of the policy can be found at:
Definitions of the main forms of academic misconduct can be found below:

**Plagiarism**
Plagiarism is the presentation of another person’s thoughts, words, images or diagrams as though they were your own. Another form of plagiarism is self-plagiarism, which involves using your own prior work without acknowledging its reuse.

Plagiarism must be avoided, with particular care on coursework, essays, reports and projects written in your own time and also in open and closed book written examinations.

Where plagiarism is detected in group work, members of that group may be deemed to have collective responsibility for the integrity of work submitted by that group and may be liable for any penalty imposed, proportionate to their contribution.

**Collusion:**
This is the term used for work that has been conducted by more than one individual, in contravention of the assessment brief. Where it is alleged that there has been collusion, all parties will be investigated under the Academic Misconduct procedure.

**Exam offences**
Exam offences include behaviour such as bringing authorised material into an exam, attempting to communicate with others apart from the invigilator, trying to remove examination material without permission, taking an exam for someone else or getting someone else to take an exam for you.

**Dishonest practice**
Examples of dishonest practice include bribery, contact cheating (buying work from an essay mill or other individual to submit as your own), attempting to access exam papers before the exam, making a false claim for mitigating circumstances or providing fraudulent evidence, falsifying documentation or signatures in relation to assessment.
4. Board of Examiners

Board of Examiners

Dr William Proud (Chairman);
Dr David Clements;
Dr Robert Forsyth.

External Examiners

External Examiner: Prof Tim Freegarde (Southampton University);

It is common for Master’s level students to have some form of academic or social interaction with their external examiners at some point during or after their studies as well as during the assessment process itself.

It is inappropriate for you to submit complaints or representations direct to external examiners or to seek to influence your external examiners. Inappropriate communication towards an examiner would make you liable for disciplinary action.

A summary of External examiners reports from the previous academic year can be found here:

www.imperial.ac.uk/staff/tools-and-reference/quality-assurance-enhancement/external-examining/information-for-staff
5. Location and Facilities

Imperial has a number of campuses in London and the South East. All have excellent travel links and are easily accessible via public transport.

Your main location of study will be:
Blackett Laboratory
South Kensington Campus, London SW7 2AZ

Facilities
Computer access and printing is available at Blackett level 3 computer lab and the Central Library on level 2. The Department's postgraduate office is located at Blackett 316 and open Monday – Friday 9:00 – 17:00.

Maps
Campus maps and travel directions are available at:

www.imperial.ac.uk/visit/campuses

Accessibility
Information about the accessibility of our South Kensington Campus is available online through the DisabledGo access guides:

www.disabledgo.com/organisations/imperial-college-london-2

Smoke-Free Policy
All Imperial campuses and properties are smoke-free. This means that smoking by staff and students is not permitted on or within 20 metres of College land. The policy covers all College properties, including student accommodation and sports grounds.

www.imperial.ac.uk/smoke-free
6. Placements

The College defines a placement as:

"work experience, assessed project work, a period of course-based study or a period of research (for which academic credit is awarded and/or where the student remains subject to College student regulations during the relevant period) and where there is a transfer of direct supervision of the student to a third party (i.e. where a member of staff at the third party acts as the day-to-day supervisor/manager) for a period of two weeks or more."

Academic departments are responsible for managing any study or work placement which forms part of your degree programme. It is expected that you will contribute to the process of planning your placement.

For guidance on this, see the College’s Placement and Learning Policy and associated good practice:

www.imperial.ac.uk/about/governance/academic-governance/academic-policy/placement-learning

Your Departmental Placement Manager:

Andrew Williamson
Blackett 316
020 759 47631
andrew.williamson

For more information on placements visit the Placements website:

www.imperial.ac.uk/placements

If you are considering/planning a placement outside the UK you should also refer to the Placement Abroad Handbook:

www.imperial.ac.uk/placements/information-for-imperial-college-students
7. Working While Studying

If you are studying full time, the College recommends that you do not work part-time during term time. If this is unavoidable we advise you to work no more than 10–15 hours per week, which should be principally at weekends and not within normal College working hours.

Working in excess of these hours could impact adversely on your studies or health.

If you are here on a Tier 4 visa you can work no more than 20 hours a week during term time. Some sponsors may not permit you to take up work outside your studies and others may specify a limit.

If you are considering part-time work during term time you are strongly advised to discuss this issue with your supervisor or Personal/Senior Personal Postgraduate Tutor. If you are on a Tier 4 visa you should also seek advice from the International Student Support team regarding visa limitations on employment.

The College’s examination boards will not normally consider as mitigating circumstances any negative impact that part-time work during term-time may have had on your performance in examinations or in other assessed work. Examinations or vivas cannot be rescheduled to accommodate your part-time working arrangements.
8. Health and Safety

You are responsible for looking after your own health and safety and that of others affected by your College-related work and leisure activities. You must:

- comply with all local and College policies, procedures and codes of practice and with the arrangements which the College has in place to control health and safety risks.
- ensure that your activities do not present unnecessary or uncontrolled risks to yourself or to others.
- attend appropriate induction and training.
- report any accidents, unsafe circumstances or work-related ill health of which you become aware to the appropriate person.
- not interfere with any equipment provided for Health and Safety.
- inform your supervisor or the person in charge of the activity in cases where you are not confident that you are competent to carry out a work or leisure activity safely, rather than compromise your own safety or the safety of others.

The College’s Health and Safety Statement can be found at:


Your Departmental safety contact is:

- Stefan Hoyle
  518, Sir Alexander Fleming Building
  07872 850 018
  s.hoyle

You may be required to complete inductions and attend training sessions to safely complete this course. These include:

- General safety briefing (October 3 @14:00 in Blackett Lecture Theatre 2)
- Laboratory safety briefing (October 10 @ 12:00 in Blackett Lecture Theatre 1)

The College Safety Department

The Safety Department offers a range of specialist advice on all aspects of safety. This includes anything which you feel might affect you directly, or which may be associated with teaching, research or support service activities.

The College’s activities range from the use of hazardous materials (biological, chemical and radiological substances) to field work, heavy or awkward lifting, driving, and working alone or late.

All College activities are covered by general health and safety regulations, but higher risk activities will have additional requirements.

The Safety Department helps departments and individuals ensure effective safety management systems are in place throughout the College to comply with specific legal requirements.

Sometimes the management systems fail, and an accident or a near-miss incident arises; it is important that we learn lessons from such situations to prevent recurrence and the Safety Department can support such investigations. All accidents and incidents should be reported online at:
To report concerns or to ask for advice you should contact your programme director, academic supervisor or departmental safety officer in the first instance. You may also contact the Safety Department directly.

**Occupational Health requirements**

The College Occupational Health Service provides services to:

- protect health at work
- assess and advise on fitness for work
- ensure that health issues are effectively managed

The Service promotes and supports a culture where the physical and psychological health of staff, students and others involved in the College is respected, protected and improved whilst at work.
9. College Policies and Procedures

Regulations for Students
All registered students of the College are subject to the Regulations for Students, the College Academic and Examination Regulations and such other regulations that the College may approve from time to time.

www.imperial.ac.uk/about/governance/academic-governance/regulations
www.imperial.ac.uk/students/terms-and-conditions

Academic Feedback Policy
We are committed in providing you with timely and appropriate feedback on your academic progress and achievement, enabling you to reflect on your academic progress. During your study you will receive different methods of feedback according to assessment type, discipline, level of study and your individual need. Further guidance on the Policy of Academic Feedback can be found on the Academic Governance website:

http://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/registry/academic-governance/public/academic-policy/academic-feedback/Academic-feedback-policy-for-taught-programmes.pdf

Modules within the programme may involve several coursework assignments that are handed in during term time. The dates for these assignments and for the feedback to the students will be given at the start of the module, but feedback shall be received within two weeks. For major items of coursework work feedback shall be received within four weeks. For written examinations, and for modules on other programmes the feedback shall be the same as for the students on the programme.

Provisional Marks Guidance
Provisional marks are agreed marks that have yet to be ratified by the Board of Examiners. These results are provisional and are subject to change by the Board of Examiners. The release of provisional marks is permitted except in certain circumstances. Further information can be found in the Guidelines for Issuing Provisional Marks to Students on Taught Programmes:


Late Submission Policy
You are responsible for ensuring that you submit your coursework assessments on time and by the published deadline. Any piece of assessed work which is submitted beyond the published deadline (date and time) would be classed as a late submission. Further guidance on Late Submission of Assessments can be found on the Academic Governance website:

https://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/registry/academic-governance/public/academic-policy/marking-and-moderation/Late-submission-Policy.pdf

Academic Misconduct Policy and Procedures
It is important that you learn how to properly attribute and acknowledge the work, data and ideas of others. Plagiarism is scientific misconduct, and students whose assessments can be shown to contain plagiarism are subject to penalties as outlined in the College’s Misconduct Policy and Procedures.

www.imperial.ac.uk/about/governance/academic-governance/academic-policy/complaints-appeals-and-discipline

Appeal and Complaints Procedures
We have rigorous regulations in place to ensure assessments are conducted with fairness and consistency. In the event that you believe that you have grounds for complaint about academic or
administrative services, or wish to appeal the outcome of an assessment or final degree, we have laid out clear and consistent procedures through which complaints and appeals can be investigated and considered:

- [www.imperial.ac.uk/about/governance/academic-governance/academic-policy/complaints-appeals-and-discipline](http://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/complaints-appeals-and-discipline)

**Student Disciplinary Procedure**
The College has the right to investigate any allegation of misconduct against a student and may take disciplinary action where it decides, on the balance of probabilities, that a breach of discipline has been committed. The general principles of the Student Disciplinary Procedure are available on the College website:

- [www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/ordinances/students/](http://www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/ordinances/students/)

**Intellectual Property Rights Policy**
For further guidance on the College’s Intellectual Property Rights Policy is available on the College website:

- [www.imperial.ac.uk/students/enterprising-students/intellectual-property/](http://www.imperial.ac.uk/students/enterprising-students/intellectual-property/)

**Use of IT Facilities**
View the Conditions of Use of IT Facilities:

- [http://www.imperial.ac.uk/admin-services/ict/self-service/computers-printing/staff-computers/conditions-of-use-for-it-facilities/](http://www.imperial.ac.uk/admin-services/ict/self-service/computers-printing/staff-computers/conditions-of-use-for-it-facilities/)
10. Well-being and Advice

Student Space
The Student Space website is the central point for information on health and well-being.

www.imperial.ac.uk/student-space

Departmental support and College tutors
Your Department has a system of academic and pastoral care in place to make sure you have access to the appropriate support throughout your time here. This includes:

Personal Postgraduate Tutor
The Department’s Personal Postgraduate Tutor can offer pastoral support and advice. You can arrange to have a meeting with them at any time during your studies – what you discuss will be completely confidential.

If necessary they will direct you to an appropriate source of support.

The Postgraduate tutor in the Physics Department is Dr Arnaud Czaja (a.czaja@imperial.ac.uk – ext. 41789), who is available to discuss any matter, personal and academic, in confidence.

Advice services
The tutor system is complemented by a College-wide network of advice and support. This includes a number of specialist services.

Careers Service
The Careers Service has strong links to your Department and you will have a named Careers Consultant and Placement and Internship Adviser who will run both group sessions and individual meetings within your Department. You can arrange to meet with your linked Careers Consultant or Placement and Internship Adviser either in your Department or centrally at the South Kensington Campus on Level 5, Sherfield Building where the Careers Service is based.

Visit the Career Service’s website to:

- Book a careers appointment
• Find resources and advice on successful career planning
  www.imperial.ac.uk/careers

Counselling and Mental Health

The Student Counselling and Mental Health Advice Service offers short-term counselling to all registered students. The service is free and confidential. Counsellors are available at the South Kensington, Hammersmith and Silwood Park Campuses.

www.imperial.ac.uk/counselling

Financial support and tuition fees

If you’ve got any questions about student financial support (loans, scholarships and research council studentships, US and Canadian loans) then contact the Student Financial Support team:

  020 7594 9014
  student.funding@imperial.ac.uk

If you suddenly find yourself in financial difficulties or experience an unexpected change in circumstances, you may be eligible to apply for emergency financial help through the Student Support Fund. The Fund offers a one-off payment of up to £2,000 to cover such emergencies as last minute accommodation and travel necessities, equipment and childcare. It does not have to be repaid.

http://www.imperial.ac.uk/students/fees-and-funding/financial-assistance/student-support-fund/

For tuition fees queries, contact the Tuition Fees team:

  020 7594 8011
  tuition.fees@imperial.ac.uk

Imperial College Union (ICU) Advice Centre

Imperial College Union runs the Advice Centre independently of the College with advisers on hand to provide free, confidential, independent advice on a wide range of welfare issues including housing, money and debt, employment and consumer rights, and personal safety.

www.imperialcollegeunion.org/advice

Student Hub

The Student Hub represents a single point of contact for all key administrative information and support. The Student Hub team can help you with enquiries about:

• Accommodation (including checking contracts for private accommodation)
• Admissions
• International student enquiries
• Research degrees
• Student financial support
• Student records
• Tuition fees
Health Services

NHS Health Centre and finding a doctor

Even if you’re fit and healthy we recommend that you register with a local doctor (GP) as soon as you arrive in London. For help finding your nearest GP see the Student Space website:

www.imperial.ac.uk/student-space/here-for-you/find-a-doctor

There is the Imperial College Health Centre on our South Kensington Campus which you may visit during clinic hours if you’re feeling unwell. Students living within the practice catchment area are encouraged to register with the Centre.

www.imperialcollegehealthcentre.co.uk

NHS Dentist (based in the Imperial College Health Centre)

Imperial College Dental Centre offers a full range of NHS and private treatment options.

www.imperial.ac.uk/student-space/here-for-you/dentist

Disability Support

The Disability Advisory Service (DAS) works with individual students, no matter what their disability or level of study, to ensure that they have the support they need. Our Advisors are committed to providing the best possible support for all students at Imperial College. They understand that each person’s disability can affect them in different ways and therefore the support offered is flexible and tailored. We can also help if you think that you may have an unrecognised study issue or specific learning difficulty such as dyslexia. The Service is confidential and information about your support needs is only passed on to others within the College with your agreement and then only in order that you are fully supported. Our Advisors never pass on information outside the College or to parents unless you ask them to. DAS is also here to support students who may have a temporary or short term disability.

Some of the sorts of things the Disability Advisors can help with are:

• checking that your evidence of disability is appropriate and up-to-date
• arranging a diagnostic assessment for specific learning difficulties
• making recommendations for additional exam arrangements, for example extra time or rest breaks
• arranging extra Library support and access to the Assistive Technology Suite
• supporting applications, where appropriate, for continuing accommodation after your first year.

Your advisor will draw up a “Suggested Reasonable Adjustment” document for you to share with your department which outlines all your support needs and we will fund any additional support agreed by your DAS Advisor. This could include funding for:

• note taking, specialist study skills or mentoring support.
• disability related equipment (NOT computers)
• other additional support, for example taxi fares for those who need help with transport.

A disability is any long-term condition that has a substantial impact on your ability to study effectively for example:
• a specific learning difficulty, e.g. dyslexia, dyspraxia
• an enduring mental health condition, e.g. depression, OCD, generalised anxiety disorder etc
• a visual, hearing, or other sensory impairment
• a long-term medical condition, e.g. IBS, ME, diabetes
• a social/communication difficulty, e.g. autistic spectrum/Asperger’s syndrome
• a mobility or dexterity impairment.

You can book an appointment by dropping in to the office, phoning or sending an email

👩 The Disability Advisory Service, Room 566, Level 5, Sherfield Building
📞 020 7594 9755
✉️ disabilities@imperial.ac.uk

More information is available at:
💻 www.imperial.ac.uk/disability-advisory-service

**Departmental Disability Officers (DDOs)**

Departmental Disability Officers are the first point of contact within your department. They can apply for additional exam arrangements on your behalf, and will facilitate support within your Department.

The Disability Officer for postgraduate students for our Department is:

👩 Andrew Williamson
📞 x47631
✉️ andrew.williamson@

More information on Departmental Disability Officers is available at:

💻 www.imperial.ac.uk/disability-advisory-service/support/ddos

More information on procedures for the consideration of additional exam arrangements in respect of disability is available at:


**Library and IT**

**Information and Communications Technologies (ICT)**

If you’re having problems with technology (including computers, laptops and mobile devices), you can get help from ICT’s Service Desk.

📞 020 7594 9000
💻 www.imperial.ac.uk/ict/service-desk
Software shop

The Software shop offers a variety of general and subject specific software programs and packages for free or at a discounted price for Imperial students.

www.imperial.ac.uk/admin-services/ict/shop/software

Library services

The Central Library at South Kensington is open around the clock pretty much all year. Make sure you find out who your departmental librarian is as they’ll be able to help you find resources for your subject area. Also, don’t forget to check out the Library’s range of training workshops and our other campus libraries for access to specialist medicine and life sciences resources. Alongside these physical spaces and resources, the Library provides over 170,000 electronic books, journals and databases available both on and off campus and a free document delivery service to help you source books and articles from around the UK and the rest of the world:

www.imperial.ac.uk/library

Religious support

The Chaplaincy Multi-faith Centre has chaplains from many different religions, as well as prayer rooms and information on places of worship. In addition, it runs meditation classes and mindfulness workshops for stress management. There is a student-run Islamic prayer room on campus and separate areas available for male and female Muslims.

www.imperial.ac.uk/chaplaincy

Support for International Students

English language support

The Centre for Academic English provides free in-sessional English courses for international students while they are studying. These include classes and workshops on academic language, social language, the four skills of reading, writing, listening and speaking, 1-1 consultations with a tutor to work on a piece of academic writing or an oral presentation, self-study resources in the VLE Blackboard, and the Conversation Project, which partners students with a native-speaker volunteer to practise social and conversational English.

www.imperial.ac.uk/academic-english

International Student Support team

Students from outside the UK make up around half of our student population, so our International Student Support team offers year-round support to help our international students settle into Imperial life. This includes UK visa and immigration advice and trips to different places of interest.

www.imperial.ac.uk/study/international-students
11. Student Records and Data

The Student Records and Data Team are responsible for the administration and maintenance of the student records for all students studying at the College. This includes enrolments, programme transfers, interruption of studies, withdrawals and processing of examination entry for research degree students. The team also use this information to fulfil reporting duties to the Student Loans Company, Transport for London and the UKVI, as well as other external bodies.

The Team is responsible for the processing of student results and awards on the student record system as well as the production and distribution of academic transcripts and certificates of award.

The Student Records and Data Team produce a variety of standard document requests for both current and previous students including council tax letters, standard statements of attendance and confirmation of degree letters.

Student records and examinations

📞 +44 (0)20 7594 7268
✉️ records@imperial.ac.uk

Degree certificates

📞 +44 (0)20 7594 8037
✉️ certificates@imperial.ac.uk
12. **Work-life Balance**

The pace and intensity of postgraduate study at Imperial can be demanding so it's important to find time for outside interests.

**Imperial College Union**
The Union's range of 380+ student-led clubs, societies and projects is one of the largest of any UK university, opening up lots of ways for you to enjoy your downtime.

[www.imperialcollegeunion.org/about-us](http://www.imperialcollegeunion.org/about-us)

**Graduate Students’ Union**
The Graduate Students’ Union is the postgraduate arm of Imperial College Union. The GSU works alongside the Imperial College Union President to ensure that the requirements of postgraduate students are catered for. It also organises a number of academic and social events during the year.

**Physical Activity Sport**
Imperial College has a wide range of sports and activities on offer that cater for all standards and abilities. We have a recreational activity offer, competitive sports teams and an elite sport programme. We are dedicated to ensuring we have a diverse, inclusive and exciting offer for all.

With an annual fee of £30 you will get use of the gym and swimming facilities on our campuses.

[www.imperial.ac.uk/sport](http://www.imperial.ac.uk/sport)
13. Student feedback and representation

Feedback from Students
The College and Union is committed to continually improving your education and wider experience and a key part of this is your feedback. Feedback is thoroughly discussed by your student representatives and staff.

Student Representation
Student Representatives are recruited from every department to gather feedback from students to discuss with staff. More information about the role, and instructions on how to become an academic representative, are available on the Imperial College Union (ICU) website.

[www.imperialcollegeunion.org/your-union/your-representatives/academic-representatives/overview](http://www.imperialcollegeunion.org/your-union/your-representatives/academic-representatives/overview)

Staff-Student Committee
Staff-Student Committees are designed to strengthen understanding and improve the flow of communication between staff and students and, through open dialogue, promote high standards of education and training, in a co-operative and constructive atmosphere. College good practice guidelines for staff-student committees are available here:

[www.imperial.ac.uk/about/governance/academic-governance/academic-policy/student-feedback](http://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/student-feedback)

Postgraduate Masters Committee (PMC)
The membership of the PMC consists of the Programme Organisers, the student representatives for each masters programme and the Directors of Postgraduate Studies and of Undergraduate Studies. The PMC typically meets twice a year. Each Masters programme must elected a student representative early in the autumn term to serve on the PMC. Their role is to inform the PMC of the concerns of the students and to assist in implementing any changes proposed.

As well as the formal monitoring system, students are encouraged to raise any concerns with the Programme Organiser as they arise.
14. Student Surveys

Your feedback is important to your department, the College and Imperial College Union. Whilst there are a variety of ways to give your feedback on your Imperial experience, the following College-wide surveys give you regular opportunities to make your voice heard:

- PG SOLE lecturer/module Survey or departmental equivalent
- Student Experience Survey (SES)

The PG SOLE lecturer/module survey runs at the end of the autumn and spring term. This survey is your chance to tell us about the modules you have attended and the lecturers who taught them.

For PG SOLE your lecturers will receive their individual numerical results and comments shortly after the survey closes. To make the most of your opportunity to give your feedback, please do not use offensive language or make personal, discriminatory or abusive remarks as these may cause offence and may be removed from the results. Whilst this survey is anonymous, please avoid self-identification by referring to personal or other identifying information in your free text comments.

The Student Experience Survey (SES) is another opportunity to leave your views on your experience. This survey will cover your induction, welfare, pastoral and support services experience.

The Postgraduate Taught Experience Survey (PTES) is the only national survey of Master’s level (MSc, MRes, MBA and MPH) students we take part in. This is the only way for us to compare how we are doing against the national average and to make changes that will improve our Master's students’ experience in future. PTES covers topics such as motivations for taking the programme, depth of learning, organisation, dissertation and professional development. PTES last ran in spring term 2018 and will next run in Spring 2020.

All these surveys are anonymous and the more students that take part the more representative the results so please take a few minutes to give your views.

The Union’s “You Said, We Did” campaign shows you some of the changes made as a result of survey feedback:

- [www.imperialcollegeunion.org/you-said-we-did](http://www.imperialcollegeunion.org/you-said-we-did)

If you would like to know more about any of these surveys or see the results from previous surveys, please visit:

- [www.imperial.ac.uk/students/academic-support/student-surveys/pg-student-surveys](http://www.imperial.ac.uk/students/academic-support/student-surveys/pg-student-surveys)

For further information on surveys, please contact the Registry’s Surveys Team at:

- surveys.registrysupport@imperial.ac.uk
Alumni Services
When you graduate you will be part of a lifelong community of over 190,000 alumni, with access to a range of alumni benefits including:

- discounts on further study at the College and at Imperial College Business School
- alumni email service
- networking events
- access to the Library and online resources
- access to the full range of careers support offered to current students for up to three years after you graduate
- access to our Alumni Visitor Centre at the South Kensington Campus, with free Wifi, complimentary drinks, newspapers and magazines, and daytime left luggage facility

Visit the Alumni website to find out more about your new community, including case studies of other alumni and a directory of local alumni groups in countries across the world.

www.imperial.ac.uk/alumni

Opportunities for Further Study
After you have completed the MSc in Physics, you may choose to progress to PhD studies in the Department or College.

Previous graduates have gone on to PhD studies at Imperial College and other major universities in Europe and elsewhere (such as Caltech, UCL, Oxford University, University of Waterloo) and employment in technical businesses such as NPL, CERN, McKinsey and Company or start-up companies.