Faculty of Engineering
Department of Electrical and Electronic Engineering

MSc
Future Power Networks
<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome to the College</td>
<td>1</td>
</tr>
<tr>
<td>Our Principles</td>
<td>2</td>
</tr>
<tr>
<td>Welcome from the Graduate School</td>
<td>3</td>
</tr>
<tr>
<td>The Graduate School</td>
<td>4</td>
</tr>
<tr>
<td>Welcome from the Graduate Students’ Union (GSU)</td>
<td>5</td>
</tr>
<tr>
<td>1. Introduction to the Department</td>
<td>6</td>
</tr>
<tr>
<td>Academic and Administrative staff</td>
<td>6</td>
</tr>
<tr>
<td>English language requirement</td>
<td>7</td>
</tr>
<tr>
<td>Attendance and absence</td>
<td>8</td>
</tr>
<tr>
<td>Key dates 2018-19</td>
<td>7</td>
</tr>
<tr>
<td>2. Programme Information</td>
<td>9</td>
</tr>
<tr>
<td>Imperial Mobile app</td>
<td>9</td>
</tr>
<tr>
<td>Imperial Success Guide</td>
<td>9</td>
</tr>
<tr>
<td>3. Assessment</td>
<td>10</td>
</tr>
<tr>
<td>Instruction to Candidates for Examinations</td>
<td>10</td>
</tr>
<tr>
<td>Plagiarism</td>
<td>11</td>
</tr>
<tr>
<td>Collusion:</td>
<td>11</td>
</tr>
<tr>
<td>Exam offences</td>
<td>11</td>
</tr>
<tr>
<td>Dishonest practice</td>
<td>11</td>
</tr>
<tr>
<td>4. Board of Examiners</td>
<td>12</td>
</tr>
<tr>
<td>5. Location and Facilities</td>
<td>13</td>
</tr>
<tr>
<td>6. Placements</td>
<td>14</td>
</tr>
<tr>
<td>7. Working While Studying</td>
<td>15</td>
</tr>
<tr>
<td>8. Health and Safety</td>
<td>15</td>
</tr>
<tr>
<td>9. College Policies and Procedures</td>
<td>16</td>
</tr>
<tr>
<td>Regulations for Students</td>
<td>16</td>
</tr>
<tr>
<td>Academic Feedback Policy</td>
<td>17</td>
</tr>
<tr>
<td>Award of the MSc</td>
<td>17</td>
</tr>
<tr>
<td>The Lecture Programme and the Examinations</td>
<td>17</td>
</tr>
<tr>
<td>Provisional Marks Guidance</td>
<td>22</td>
</tr>
<tr>
<td>Late Submission Policy</td>
<td>22</td>
</tr>
<tr>
<td>Academic Misconduct Policy and Procedures</td>
<td>22</td>
</tr>
<tr>
<td>Appeal and Complaints Procedures</td>
<td>22</td>
</tr>
</tbody>
</table>
Student Disciplinary Procedure ................................................................. 23
Intellectual Property Rights Policy ........................................................... 23
Use of IT Facilities ....................................................................................... 23
10. Well-being and Advice ........................................................................ 24
Student Space .............................................................................................. 24
Departmental support and College tutors .................................................. 24
Advice services ............................................................................................ 24
Health Services ........................................................................................... 26
Disability Support ....................................................................................... 26
Library and IT .............................................................................................. 27
Religious support ......................................................................................... 27
Support for International Students .............................................................. 28
11. Student Records and Data .................................................................... 29
12. Work-life Balance .................................................................................. 30
Imperial College Union ............................................................................... 30
Graduate Students’ Union ........................................................................... 30
Physical Activity Sport ................................................................................. 30
13. Student feedback and representation .................................................. 31
Feedback from Students ............................................................................. 31
Student Representation ............................................................................... 31
14. Student Surveys ..................................................................................... 31
15. And finally ............................................................................................ 32
Alumni Services .......................................................................................... 32
Opportunities for Further Study ................................................................. 32
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
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.

Janet De Wilde

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

Sue Gibson
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](http://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](http://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

 gauss.president@imperial.ac.uk

GSU

IMPERIAL GRADUATE STUDENTS’ UNION
1. Introduction to the Department

Academic and Administrative staff

- **Andrew Holmes**
  - Director of Postgraduate Studies
  - 7th Floor, Room 701
  - 02075946239
  - a.holmes@imperial.ac.uk

- **Imad Jaimoukha**
  - Postgraduate Tutor
  - 6th Floor, Room 617
  - 020 7594 6279
  - i.jaimoukha@imperial.ac.uk

- **Anderson Santos**
  - Postgraduate Manager
  - 6th Floor, Room 607
  - 020 7594 6195
  - a.santos@imperial.ac.uk

- **Balarko Chaudhuri**
  - MSc Future Power Networks Course Director
  - 11th Floor Room 1116
  - 020 7594 6196
  - b.chaudhuri@imperial.ac.uk

- **Isabella Asimadi**
  - MSc Future Power Networks Administrator
  - 11th Floor, Room 1102
  - 020 7599 6170
  - i.asimadi@imperial.ac.uk
The MSc Future Power Networks Programme

This booklet is designed to provide you with most of the information that you need to know about the Future Power Networks MSc Programme and the assessment process. Please take time to read the formal programme specification and the academic regulations and procedures. https://www.imperial.ac.uk/about/governance/academic-governance/regulations/ http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/programme-specifications/

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

MSc ‘Project support’ sessions 6, 7 & 11 June 2019
MSc ‘Turnitin’ sessions 3 & 4 September

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 are here, see page 28.

If you have successfully completed a one-year MSc degree (or equivalent) course at a University in one of the following countries then you meet the English requirement automatically:

- Australia
- Canada
- Guyana
- Ireland
- New Zealand
- South Africa
- United Kingdom
- United States of America
- West Indies

This applies only to degrees that were awarded by a university in the relevant country.

**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 affected 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.

There is an attendance scanner on the MSc Study Room 405 on level four, which you should tap with your ID card at least twice a week on different days. The card reader has been programmed to bleep three times to warn students if their card has not been recorded properly. **Do not** ignore it if this happens - you will need to go and see Danny Harvey, Room 113 on level 1.
2. Programme Information

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
3. Assessment

Modules

A module refers to a lecture course and associated activity.

MSc students are automatically registered for their four core modules and must select four optional modules, apart from MSc Control Systems students who are able to choose both core and optional modules.

You need to choose four or five modules (i.e. subjects) on which to be examined from the available examinable OPTIONS in addition to the four CORE modules on which you will equally be examined. All Autumn and all Spring Term modules must be confirmed by the end of week three of the Spring Term. Register via the EEE Department options registration site.

You cannot change your choice after the registration deadline without the permission of the Course Director. The pass/fail decision and degree classification are based only on the best eight module marks among all possible choices that include at least four core modules. The eight modules that are selected according to this rule are called the Counted Examinations.

The overall mark for the eight individual modules that are counted is called the Examination Aggregate Mark (%) and is the equally-weighted average of all eight exam results.

Laboratory work

The assessed laboratory work involves a laboratory demonstration, associated preparatory work and analysis of results. The overall mark for this component of assessment is called the Laboratory Aggregate Mark (%) which combines the attendance at the demonstration sessions together with the mark of the submitted final report. The amount of work involved will be approximately the equivalent of two examinable courses (i.e. two modules).

Individual research project

A list of projects proposed by staff will be published towards the end of the Autumn Term. Project preferences will be required by the start of the third week of the Spring Term, delayed until then to allow students to acquire some understanding of modules given in the Spring Term before deciding to choose a project based on those modules. In addition, students might propose a project themselves or carry out a project as an intern with a company or at other Universities provided the MSc Course Director agrees that the Project is suitable. The student will be assessed based on the performance on the Project, the Project Report and a Poster Presentation in the last week of the academic year. The Project Aggregate Mark is a weighted sum of these. More details on the MSc Individual Research Project can be found here: http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/msc-individual-research-project/

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.

Instructions for exam candidates can be found here:

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 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

External Examiner

persona
Professor Ian Cotton, Professor of High Voltage Technology
School of Electrical and Electronic Engineering, University of Manchester

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:

📍 South Kensington
Imperial College London
Department of Electrical and Electronic Engineering
Exhibition Road, London
SW7 2AZ

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](http://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/placement-learning)

**Your Departmental Placement Manager:**

Balancer Chaudhuri  
11th Floor Room 1116  
020 7594 6196  
b.chaudhuri@imperial.ac.uk

For more information on placements visit the Placements website:

[www.imperial.ac.uk/placements](http://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](http://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:

Andrew Paice
2nd Floor Room 201
020 7594 6190
a.paice@imperial.ac.uk
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:

www.imperial.ac.uk/safety

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.

Your Departmental safety contact is:

Andrew Paice
2nd Floor Room 201
020 7594 6190
a.paice@imperial.ac.uk

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.

www.imperial.ac.uk/occupational-health

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
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

Award of the MSc

You will be awarded the highest grade of MSc for which your marks satisfy the following conditions.

MSc if:

1. Each of your 8 counted examination marks ≥ 40%;
2. Laboratory aggregate mark ≥ 50%;
3. Project aggregate mark and examination aggregate mark ≥ 50%.

MSc with Merit if:

1. Each of your 8 counted examination marks ≥ 40%;
2. Laboratory aggregate mark ≥ 50%;
3. Project aggregate mark and examination aggregate mark ≥ 60%.

MSc with Distinction if:

1. Each of your 8 counted examination marks ≥ 40%;
2. Laboratory aggregate mark ≥ 50%;
3. Project aggregate mark and examination aggregate mark ≥ 70%.

The Lecture Programme and Examinations

The lecture programme provides a broad coverage of material. We encourage students to attend the first few lectures for each module to sample them before choosing which modules to take for examination. You need to choose four or five OPTIONAL modules on which to be examined in addition to the four CORE modules. In total eight modules will count towards your MSc. All Core and Optional modules are listed on the next page. Most lectures are held in the EEE Building. In addition to the lectures for modules, there is a programme of seminars by outside speakers, which we also encourage you to attend although many are aimed at researchers. These are generally held in the Seminar Room (room 1109a, level 11, EEE Building) or in the Centre for Process Systems Engineering (Roderic Hill Building, top level). The seminar list will be available on the Control and Power Group web pages or on http://talks.ee.ic.ac.uk/
### The Modules

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Lecture Course Title</th>
<th>Lecturer</th>
<th>Term</th>
<th>Exam Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE9-FPN1-01</td>
<td>Role and Value of Smart Grid Technologies</td>
<td>G. Strbac &amp; Tindemans S</td>
<td>Autumn</td>
<td>ec</td>
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<tr>
<td>EE9-FPN1-02</td>
<td>HVDC Technology and Control</td>
<td>B. Chaudhuri</td>
<td>Autumn</td>
<td>e</td>
</tr>
<tr>
<td>EE9-FPN1-03</td>
<td>Power System Dynamics, Stability and Control</td>
<td>B. Pal</td>
<td>Spring</td>
<td>e</td>
</tr>
<tr>
<td>EE9-FPN1-04</td>
<td>Optimization</td>
<td>A. Astolfi</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-01</td>
<td>Traffic Theory and Queuing Systems</td>
<td>J. Barria</td>
<td>Spring</td>
<td>e</td>
</tr>
<tr>
<td>EE9-FPN2-02</td>
<td>Probability and Stochastic Processes</td>
<td>C. Ling</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-03</td>
<td>Digital Signal Processing and Digital Filters</td>
<td>M. Brookes</td>
<td>Autumn</td>
<td>e</td>
</tr>
<tr>
<td>EE9-FPN2-04</td>
<td>Adaptive Signal Processing and Machine Intelligence</td>
<td>D. Mandic</td>
<td>Spring</td>
<td>c</td>
</tr>
<tr>
<td>EE9-FPN2-05</td>
<td>Stability and Control of Non-linear Systems</td>
<td>D. Angeli</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-06</td>
<td>Design of Linear Multivariable Control Systems</td>
<td>I. Jaimoukha</td>
<td>Spring</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-07</td>
<td>Estimation and Fault Detection</td>
<td>T. Parisini</td>
<td>Spring</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-08</td>
<td>Systems Identification</td>
<td>T. Parisini</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-09</td>
<td>Wavelets and Applications</td>
<td>P-L. Dragotti</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-10</td>
<td>Sustainable Electrical Systems</td>
<td>A. Junyent-Ferré &amp; G. Strbac</td>
<td>Spring</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-FPN2-11</td>
<td>Power System Economics</td>
<td>G. Strbac</td>
<td>Autumn</td>
<td>ec</td>
</tr>
<tr>
<td>EE9-QPRJ</td>
<td>Q1 Project</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Examination status:  
- e = closed-book examination only  
- ec = closed-book examination with course work  
- c = course work only  
- r = for revision only – not examinable

Second column:  
- C = Core  
- O = Optional

Important notes on the modules (including information about coursework)

It would be wise to sample the first few lectures for each module at the start of each term in order to help you choose which subjects you will take for examination purposes. You need to take eight or nine modules in total, with at least four being core modules, and four or five being optional, finalising your choices by the end of the Spring Term. Once you have registered them, you cannot change them without the permission of the MSc Course Director. Of course, you need to do the coursework (if any) if you might wish to be examined on a module.

You may attend the lectures for any module without choosing to be examined on it.

A reasonable familiarity with linear algebra is required for most of the courses. Dr Jaimoukha provides a revision handout, which is supplied in the Welcome Pack and online.

Please note that, for one reason or another, there may be timetabling clashes, which result in you not being able to attend all of the lectures you want. If this is very disappointing for you, please contact the MSc Course Director who will try to resolve the problem for you.

Coursework

The lecturer sets a date by which time the coursework has to be submitted. Normally at least five weeks is allowed for the completion of each piece of coursework except when coursework consists of several relatively small parts that are issued separately. We hope to have coursework marked within 2 weeks of the deadline. Students are not allowed to keep their marked coursework since we need to keep it because the External Examiner will need to inspect it during one of his visits to the Department.

VERY IMPORTANT – NO COPYING  As it is a valuable part of the educational process, you are free to discuss the coursework with other students; however, unless it is specified to be group work, your submission for marking must be entirely your own work. You must not copy any part of another person’s work (i.e. you must not copy any part or all of the text, equations, programmes, figures, graphs, etc.). You must not copy material from any publication without making it clear what you have copied (usually by enclosing the copied material in inverted comma (‘ ’) and following it by a reference such as [Page 32, 5].) There will be serious consequences for you if we detect any copying from another student or any unacknowledged copying from the web or any publication. Please also read the Plagiarism section below.

Submission of coursework

Lecturers might request coursework to be emailed to them as PDF documents or uploaded using Blackboard, which they will explain to you. Blackboard is Imperial College London’s virtual learning environment (VLE) and is used to teach courses and store materials online. Blackboard self-enrolment can be found here: [http://www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/electrical-and-electronic-engineering/selfenrol.pdf](http://www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/electrical-and-electronic-engineering/selfenrol.pdf) You will need to enter your College username and password.
## Interpretation of grades and marks for coursework

<table>
<thead>
<tr>
<th>Grade on coursework</th>
<th>Mark (%) (on transcript)</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A+</strong></td>
<td>100</td>
<td><strong>Distinction Quality</strong>&lt;br&gt;<strong>Distinction standard</strong> - an exceptionally well presented exposition of the subject, showing: (i) command of the relevant concepts and facts, (ii) a high critical or analytical ability, (iii) originality, and (iv) evidence of substantial outside reading (where applicable). Distinction standard - excellent answer - a very well presented exposition of the subject, showing many of the above features, but falling short in one or two of them</td>
</tr>
<tr>
<td><strong>A</strong></td>
<td>70</td>
<td><strong>Merit Quality</strong>&lt;br&gt;<strong>Merit standard</strong> - Good to very good answer which (i) shows a clear grasp of the relevant concepts and facts, (ii) gives an accurate account of the relevant taught material (as exemplified in the model answer), and (iii) shows evidence of some outside reading or of critical or analytical ability</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>60</td>
<td><strong>Pass Quality</strong>&lt;br&gt;<strong>Pass standard</strong> - adequate to quite good answer which (i) shows a grasp of the basic concepts and facts, (ii) gives a mainly accurate account of at least half of the relevant taught material (as exemplified in the model outline answer), and (iii) does not go beyond that, or goes beyond that but is marred by significant errors</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>50</td>
<td><strong>Fail Quality</strong>&lt;br&gt;<strong>Fail standard</strong> - Unsatisfactory answer: shows only a weak grasp of the basic concepts and facts, and is marred by major errors or brevity; presents only about one third to one half of the relevant taught material. Shows a confused understanding of the topic; presents less than a third of the relevant taught material. Answer is too inaccurate, too irrelevant, or too brief to indicate more than a vague understanding of the topic, less than a quarter of the relevant taught material. Presents only one, two or three sentences or facts that are correct and relevant to the topic. Contains nothing correct that is relevant to the topic</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>50</td>
<td><strong>Fail Quality</strong>&lt;br&gt;<strong>Fail standard</strong> - Unsatisfactory answer: shows only a weak grasp of the basic concepts and facts, and is marred by major errors or brevity; presents only about one third to one half of the relevant taught material. Shows a confused understanding of the topic; presents less than a third of the relevant taught material. Answer is too inaccurate, too irrelevant, or too brief to indicate more than a vague understanding of the topic, less than a quarter of the relevant taught material. Presents only one, two or three sentences or facts that are correct and relevant to the topic. Contains nothing correct that is relevant to the topic</td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>50</td>
<td><strong>Fail Quality</strong>&lt;br&gt;<strong>Fail standard</strong> - Unsatisfactory answer: shows only a weak grasp of the basic concepts and facts, and is marred by major errors or brevity; presents only about one third to one half of the relevant taught material. Shows a confused understanding of the topic; presents less than a third of the relevant taught material. Answer is too inaccurate, too irrelevant, or too brief to indicate more than a vague understanding of the topic, less than a quarter of the relevant taught material. Presents only one, two or three sentences or facts that are correct and relevant to the topic. Contains nothing correct that is relevant to the topic</td>
</tr>
<tr>
<td><strong>F</strong></td>
<td>0</td>
<td><strong>Fail Quality</strong>&lt;br&gt;<strong>Fail standard</strong> - Unsatisfactory answer: shows only a weak grasp of the basic concepts and facts, and is marred by major errors or brevity; presents only about one third to one half of the relevant taught material. Shows a confused understanding of the topic; presents less than a third of the relevant taught material. Answer is too inaccurate, too irrelevant, or too brief to indicate more than a vague understanding of the topic, less than a quarter of the relevant taught material. Presents only one, two or three sentences or facts that are correct and relevant to the topic. Contains nothing correct that is relevant to the topic</td>
</tr>
</tbody>
</table>
**Examination timetable**

The majority of examinations will take place during the first three weeks of the Summer Term but some Autumn modules are examined in December. Timetables will be published here: [http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/examinations/timetable/](http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/examinations/timetable/)

Each examination lasts three hours. Typically, you are asked to answer four out of six questions.

**Use of calculators in exams**

You will be provided with standard scientific calculators in the exam rooms. You cannot use your own calculators. At least one of each type of these calculators will be held in the Undergraduate Office (Level 6, Room 608) and will be available for inspection during March.

**Past exam papers and model answers**

Departmental policy is that you will be able to access the exam papers and model answers for the last two years from the departmental web page where other useful information about examinations may be found. Past papers can be found here: [http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/examinations/](http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/examinations/)

**Laboratory Work**

The laboratory assignment will be managed by Dr Adrià Junyent-Ferré. The laboratory work involves a demonstration at the Maurice Hancock Smart Energy Laboratory you will attend in March. You will be expected to complete a series of tasks before and after the demonstration takes place and to submit a final report in June. You will be emailed all the details of this assignment in early February.

**Individual Research Project**

Guidelines for the individual research project can be found here: [http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/msc-individual-research-project/](http://www.imperial.ac.uk/electrical-engineering/study/current-students-course-handbook/msc-individual-research-project/)

Here you will find information on

- Project aims and deliverables
- Project schedule
- Selection and allocation of projects
- Writing and submitting the project report
- Poster presentation
- Assessment
- Plagiarism

**Poster Presentation Skills Course and Poster Presentation**

Guidelines for producing the poster and details about the poster presentation can also be found in the above link.

The Department will arrange a Poster Presentation Skills Course and Turnitin Sessions for each MSc group as follows:
June 2019 - MSc ‘Project support’ sessions (you will receive an invitation closer to the dates below to book yourself into one of the sessions):

- 1st session: Thurs, June 6th 2019, 14:00-16:00, Training Room 1 in Central Library
- 2nd session: Fri, June 7th 2019, 14:00-16:00, Training Room 1 in Central Library
- 3rd session: Tues, June 11th 2019, 10:00-12:00, Training Room 1 in Central Library

September 2019 - MSc ‘Turnitin’ sessions (you will receive an invitation closer to the dates below to book yourself into one of the sessions):

- 1st session: Tues, Sept 3rd 2019 14:00-15:00, Training Room 2 in Central Library
- 2nd session: Weds, Sept 4th 2019 14:00-15:00, Training Room 2 in Central Library

It is mandatory for you to attend this course as you will be shown valuable skills which you can use for your poster presentation in September.

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
**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.

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, Sheffield 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](http://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](http://www.imperial.ac.uk/counselling)

**Financial support and tuition fees**

If you have 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/](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](http://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](http://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](http://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](http://www.imperial.ac.uk/student-space/here-for-you/dentist)

Disability Support
Disability Advisory Service

The Disability Advisory Service provides confidential advice and support for all disabled students and students with specific learning difficulties.

If you think you may have dyslexia or another specific learning difficulty but have never been formally assessed, the Disability Advisory Service offers initial screening appointments.

- Room 566, Level 5, Sherfield Building, South Kensington Campus
- 020 7594 9755
- disabilities@imperial.ac.uk
- [www.imperial.ac.uk/disability-advisory-service](http://www.imperial.ac.uk/disability-advisory-service)

Departmental Disability Officers

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 Department’s Disability Officer is [Emma Rainbow](mailto:Emma_Rainbow@imperial.ac.uk)

More information on Departmental Disability Officers is available at:

- [www.imperial.ac.uk/disability-advisory-service/support/ddos](http://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 are 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](http://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](http://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 will be able to help you find resources for your subject area. Also, do not 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](http://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](http://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

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
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

MSc Future Power Networks students will receive email from Course Administrator requesting any of them to put their name forward as student representative. If there are more than three names there is likely to be a vote, the winner becomes Student Representative and the second runner up becomes Assistant.

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

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 or equivalent runs at the end of the autumn and spring terms. 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](mailto:surveys.registrysupport@imperial.ac.uk)

15. And finally

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](http://www.imperial.ac.uk/alumni)

Opportunities for Further Study

After you have completed MSc Future Power Networks Programme, you may choose to apply for Postgraduate Research Programme with Control and Power Research Group within Imperial. Previous graduates have gone on to complete their PhDs and subsequently employed by Imperial College.