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Welcome to the Department of Aeronautics at Imperial College London. In this handbook you will find much essential information; you are expected to read this carefully and to use it as your first point of reference for any queries. This handbook is continually being updated so always check for the latest version online.

The following information is designed to help you make the best use of your time and of the facilities and services provided.

Disclaimer: This handbook was originally compiled in Summer 2018 and is intended primarily for the use of our 2018-19 cohort. Please note that handbooks are subject to annual review and change.
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 340 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 free access to gym (£30 annual fee) and swimming facilities 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 skills development courses 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 skills 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 skills 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. Particular highlights include the Ig Nobel Awards Tour Show, the Chemistry Show and the Master’s 360 competition. You should regularly check the Graduate School’s website and e-Newsletters to keep up to date with all the events and training courses 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 post-graduate student in major decisions taken by the College. Beyond that, we work towards building a thriving post-graduate community that spans faculties and where students effectively communicate in an interdisciplinary way. Our committee is comprised by motivated post-graduate 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 post-graduate 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 post-graduate 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!

✉️ gsu.president@imperial.ac.uk

💻 www.imperialgsu.com

Ute Thiermann, GSU President 2018/19
1. Introduction to the Department

Your main location of study will be:

South Kensington

Department of Aeronautics
Imperial College London
South Kensington Campus
London
SW7 2AZ

Most of your time will be spent in the City & Guilds and Skempton Buildings.

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

Departmental Contacts – Programme Administrator
Your first point of contact in the Department for all general enquiries will be the Senior Postgraduate (MSc) Administrator:

<table>
<thead>
<tr>
<th>Mrs Ravinder Panesar</th>
<th>Room 318, City &amp; Guilds Building</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+44 (0)20 7594 5066</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:r.panesar@imperial.ac.uk">r.panesar@imperial.ac.uk</a></td>
</tr>
</tbody>
</table>

Students should quote their CID number and programme on all email correspondence.

In the event that the Postgraduate Administrator is unavailable, MSc students may approach Undergraduate Office staff if urgent assistance is required.

UG Office: Room 310, City & Guilds Building – ae.office@imperial.ac.uk
Departmental Contacts – Course Director
The Course Director for this programme is:

<table>
<thead>
<tr>
<th>Professor Emile Greenhalgh</th>
<th>Room 334, City &amp; Guilds Building</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+44 (0)20 7594 5070</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:e.greenhalgh@imperial.ac.uk">e.greenhalgh@imperial.ac.uk</a></td>
</tr>
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</table>

Departmental Contacts – PGT Tutor
For advice of a more pastoral nature, the Postgraduate Tutor is:

<table>
<thead>
<tr>
<th>Dr Francesco Montomoli</th>
<th>Room 215, City &amp; Guilds Building</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+44 (0)20 7594 5151</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:f.montomoli@imperial.ac.uk">f.montomoli@imperial.ac.uk</a></td>
</tr>
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Aeronautics Staff
For further details on how to contact academic/administrative/technical staff please go to http://www.imperial.ac.uk/engineering/departments/aeronautics/people/.

Academic Staff have a designated office hour per week – details will be posted on their office door and on Sharepoint.

External Lecturers
Contact details of external lecturers (and internal too) can be found under relevant module (Teaching Team) on Blackboard Learn http://www.imperial.ac.uk/admin-services/ict/self-service/teaching-learning/elearning-services/blackboard/.

Communications
Communication within the department relies heavily on email and announcements on Blackboard Learn and you should check both on a daily basis (preferably start and end of day).

If you need to contact a member of staff by telephone or email then you can refer to the Departmental web page http://www.imperial.ac.uk/engineering/departments/aeronautics/people/academic/ for staff extension numbers and email addresses.

Study/Breakout Space
There are student break out spaces (BOSS) on Level 2 of the Skempton and City & Guilds Buildings. These areas provide an informal study space for engineering students, comprising PC/laptop benching, comfortable seating and meeting spaces. The area is provided with drinking water, vending machines, copiers and a recycling station.

There are also computer rooms in both these buildings and study space in the Library.
Following our re-location to the City & Guilds Building in Summer 2018, please note that the MSc Common/Study Room is located in 146B (swpie card access only)

Sharepoint –Student Portal
Sharepoint is a team and document collaboration system. Sharepoint is an internal facing website, which means you cannot view any content without an IC user account. Students can view general information about the department and College, past Project reports via the Student Portal on Sharepoint.

All students should have access to this. If you find you do not then please contact the Postgraduate Administrator.

Panopto
Panopto is a College ICT service that allows the recording of a computer screen, in addition to audio and visual content. Lecturers can use the system to record live lectures, special events, tutorials and more.

Please note that whilst Staff are encourage to record their lectures on Panopto, its use is not mandatory in Aeronautics.

Recordings can be accessed directly through Panopto or may be made available via links on BBL.

http://www.imperial.ac.uk/admin-services/ict/self-service/teaching-learning/elearning-services/panopto/students-use/access/

Seminars
Seminars are regularly held throughout the year, scheduled on Wednesday afternoons, usually given by external speakers on topics ranging from specialist research problems to more general issues. Students are welcome to attend all such seminars falling within your field of interest. The seminar programme will be circulated, and can also be seen on the
You are also encouraged to attend the seminars held in other departments as advertised on our notice boards.

**Student’s Obligations**

Students have obligations with regard to submission of work and meeting deadlines, as well as attending lectures and other activities. Attendance is therefore important, if only as a mark of respect and good manners.

As this is a postgraduate course, students are expected to read additional information (books, papers) in support of the lectures, to assist them in passing the written examinations, and also to provide complementary material for inclusion in laboratory reports. The individual (research) project will clearly need wide reading to provide the necessary background, and to provide comparative information against which the student’s own work can be measured.

**Lecturer Attendance**

If your lecturer hasn’t arrived within 10 minutes of the scheduled start time then please inform the Postgraduate Administrator or the UG Office who will contact the lecturer to see where he/she is. Students (preferably one of the programme representatives) are asked to ring the Postgraduate Administrator (020 7594 5066) or UG Office (020 7594 5100/5102). Please do not leave the lecture room until notified by admin staff.

**Transfers/Interruptions of Study/Withdrawals**

Please discuss making any changes to your registration status with the PG Administrator, PGT Tutor or your Course Director.

**Important information for international students:**

Some changes to registration status, such as an Interruption of Studies or Withdrawal from Studies, will affect Student Visa status, especially the Tier 4 Student Visa so you should also seek advice from the International Student Support Team.


**Attendance and absence**

Attendance at all timetabled events is expected and will be monitored. It is a requirement for the award of the MSc that students attend at least 90% of each set (i.e. topic) of lectures you are registered for and failure to do so may result in a student being asked to withdraw from the course. Students who repeatedly fail to attend will be asked to withdraw from the course.

You must inform your Postgraduate Administrator 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 produce a medical certificate immediately.
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.

**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](www.imperial.ac.uk/study/pg/apply/requirements/english)

For information on English language support available while you’re here, see page 45.

**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](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](www.imperial.ac.uk/success-guide)
## 2. Key Dates

### USEFUL DATES 2018-19: MSc Students

> Term dates for later years can be viewed on the Registry website: [http://www.imperial.ac.uk/admin-services/registry/term-dates/](http://www.imperial.ac.uk/admin-services/registry/term-dates/)

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<th>Bank Holidays</th>
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<td>01-05 Oct 2018</td>
<td>Start of Session: All programmes (Mon) Autumn</td>
<td>Christmas Day 25-Dec-18</td>
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<tr>
<td>Week 02</td>
<td>08-12 Oct 2018</td>
<td>Autumn</td>
<td>Boxing Day 26-Dec-18</td>
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<tr>
<td>Week 03</td>
<td>15-19 Oct 2018</td>
<td>Labs: Composites Autumn</td>
<td>New Years Day 01-Jan-19</td>
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<tr>
<td>Week 04</td>
<td>22-26 Oct 2018</td>
<td>Labs: Composites Autumn</td>
<td>Good Friday 19-Apr-19</td>
</tr>
<tr>
<td>Week 05</td>
<td>29 Oct-02 Nov 2018</td>
<td>Labs: Composites Autumn</td>
<td>Easter Monday 22-Apr-19</td>
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<tr>
<td>Week 06</td>
<td>05-09 Nov 2018</td>
<td>Autumn</td>
<td>Early May Bank Holiday 06-May-19</td>
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<tr>
<td>Week 07</td>
<td>12-16 Nov 2018</td>
<td>Autumn</td>
<td>Spring Bank Holiday 27-May-19</td>
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<td>Week 08</td>
<td>19-23 Nov 2018</td>
<td>Autumn</td>
<td>Summer Bank Holiday 26-Aug-19</td>
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<td>Week 09</td>
<td>26-30 Nov 2018</td>
<td>Autumn</td>
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<td>Week 10</td>
<td>03-07 Dec 2018</td>
<td>Autumn</td>
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<td>Week 11</td>
<td>10-14 Dec 2018</td>
<td>Autumn</td>
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<td>Week 12</td>
<td>17-21 Dec 2018</td>
<td>Xmas</td>
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<td>Week 13</td>
<td>24-28 Dec 2018</td>
<td>Xmas</td>
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<td>Week 14</td>
<td>31 Dec-04 Jan 2019</td>
<td>Xmas Autumn</td>
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<td>Week 15</td>
<td>07-11 Jan 2019</td>
<td>Exams: AAE/ACM only Spring</td>
<td>Sat 29 Sep to Fri 14 Dec 2018</td>
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<tr>
<td>Week 16</td>
<td>14-18 Jan 2019</td>
<td>Exams: AAE/ACM only Spring</td>
<td>Sat 5 Jan to Fri 22 Mar 2019</td>
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<td>Week 17</td>
<td>21-25 Jan 2019</td>
<td>Spring</td>
<td>Sat 27 Apr to Fri 28 June 2019</td>
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<td>Week 18</td>
<td>28 Jan-01 Feb 2019</td>
<td>Spring Autumn</td>
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<td>Week 19</td>
<td>04-08 Feb 2019</td>
<td>Spring</td>
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<td>Week 20</td>
<td>11-15 Feb 2019</td>
<td>Spring</td>
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<td>Week 21</td>
<td>18-22 Feb 2019</td>
<td>Spring</td>
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<td>Week 22</td>
<td>25 Feb-01 March 2019</td>
<td>Spring Autumn</td>
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<td>Week 23</td>
<td>04-08 March 2019</td>
<td>Spring Autumn</td>
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<td>Week 24</td>
<td>11-15 March 2019</td>
<td>Spring Autumn</td>
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<td>Week 25</td>
<td>18-22 March 2019</td>
<td>Spring Autumn</td>
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<td>Week 26</td>
<td>25-29 March 2019</td>
<td>Easter Autumn</td>
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<td>Week 27</td>
<td>01-05 April 2019</td>
<td>Easter Autumn</td>
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<td>Week 28</td>
<td>08-12 April 2019</td>
<td>Easter Autumn</td>
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<tr>
<td>Week 29</td>
<td>15-19 April 2019</td>
<td>Easter Autumn</td>
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<tr>
<td>Week 30</td>
<td>22-26 April 2019</td>
<td>Easter Autumn</td>
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<tr>
<td>Week 31</td>
<td>29 April-03 May 2019</td>
<td>Exams: All MSc Programmes Summer</td>
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<tr>
<td>Week 32</td>
<td>06-10 May 2019</td>
<td>Exams: All MSc Programmes Summer</td>
<td></td>
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<tr>
<td>Week 33</td>
<td>13-17 May 2019</td>
<td>MSc Project: Official Start Exams: All MSc Programmes Summer</td>
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<tr>
<td>Week 34</td>
<td>20-24 May 2019</td>
<td>Summer</td>
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<td>Week 35</td>
<td>27-31 May 2019</td>
<td>Summer</td>
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<td>Week 36</td>
<td>03-07 June 2019</td>
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<td>Summer</td>
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<td>Week 38</td>
<td>17-21 June 2019</td>
<td>Summer</td>
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<td>Week 39</td>
<td>24-28 June 2019</td>
<td>Summer</td>
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<td>Week 40</td>
<td>01-05 July 2019</td>
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<td>Week 41</td>
<td>08-12 July 2019</td>
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<td>Week 42</td>
<td>15-19 July 2019</td>
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<td>Week 43</td>
<td>22-26 July 2019</td>
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<td>Week 44</td>
<td>29 July-02 Aug 2019</td>
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<td>Week 45</td>
<td>05-09 Aug 2019</td>
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<td>Week 46</td>
<td>12-16 Aug 2019</td>
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<td>Week 47</td>
<td>19-23 Aug 2019</td>
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<td>Week 48</td>
<td>26-30 Aug 2019</td>
<td>Holiday</td>
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<td>Week 49</td>
<td>02-06 Sep 2019</td>
<td>Holiday</td>
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<td>Week 50</td>
<td>09-13 Sep 2019</td>
<td>MSc Project: Presentations &amp; Submission Holiday</td>
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<tr>
<td>Week 51</td>
<td>16-20 Sep 2019</td>
<td>Holiday</td>
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<tr>
<td>Week 52</td>
<td>23-27 Sep 2019</td>
<td>Holiday</td>
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</table>

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**Term Dates : 2018-2019**

- **Autumn Term:** Sat 29 Sep to Fri 14 Dec 2018
- **Spring Term:** Sat 5 Jan to Fri 22 Mar 2019
- **Summer Term:** Sat 27 Apr to Fri 28 June 2019

**College Closure Dates**

- **Christmas:** Sat 22 Dec 2018 - Tues 2 Jan 2019 (incl)
- **Easter:** Thu 18 Apr to Tue 23 Apr 2019 (incl)

**Graduation Ceremonies**

- Commemoration Day: Wed 17 Oct 2018 (tbc)
- PG Awards Day [2017-18 cohort]: Wed 1 May 2019 (tbc)

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**Official end date of programme:** 30 September 2019
Overview of the Programme
The MSc in Composites was started by the Composites Centre in 1988 with the objective of providing education and training in composite materials to students from a wide variety of academic backgrounds. This course will appeal to graduates of engineering, materials science, physics or chemistry.

New aircraft and other challenging engineering applications are becoming increasingly dependent upon the unique capabilities of high performance composite materials. This course addresses the broad field of advanced composites and is presented by experts in the field from the College, other universities, major aerospace companies and government research organisations. Students develop an outstanding knowledge of composite technology allowing them to take up specialist roles in industry and research.

The course is assessed by written examination, associated coursework, and a substantial individual research project of four months' duration. It may be possible for projects to be carried out in industry. The normal duration of the course is one year full-time or two years part-time.

Accreditation/Professional Membership
The MSc Composites course is accredited by The Royal Aeronautical Society (RAeS), Institute of Materials, Minerals and Mining (IOM3) and the Institution of Mechanical Engineers (IMechE).

Discounted membership of IOM3:
http://www.iom3.org/student-membership

You can apply for student membership of RAeS:
http://aerosociety.com/Membership/whichmembership/student

You can become an affiliate member of IMechE:
https://www.imeche.org/membership-registration/become-a-member/affiliate-member

General Status and Scope
The MSc is normally awarded after one year of full-time or two years part-time study. The initial qualification for the MSc in Composites course is normally a 1st class or 2nd Class Honours Degree of a U.K. University or an approved equivalent degree.

The Aims
The Composites Centre strives to be the main provider of postgraduate education in composite materials in the UK, and to pursue excellence through the operation of a comprehensive and integrated course attracting applicants of high intellectual calibre, having a wide range of undergraduate training in materials science, engineering, physics or chemistry. The underlying aims of this course are to provide high quality technologically trained postgraduates with the skills to take up leading roles in design and research and development in several industrial sectors including aerospace, transport, marine, offshore, sports goods and civil engineering. Key elements in this postgraduate preparation include the development of i) transferable skills, ii) flexibility of mind, iii) confidence and enthusiasm to learn new skills and solve new technical problems and, iv) fluency in the principles of composite materials design, engineering and science.
The Objectives
At the conclusion of the course students will have achieved the following objectives:

• Developed a firm grasp of the fundamental concepts and principles relating to: the nature of composite materials and their constituents, the processes of production of composites, the engineering and other properties and applications of current composite systems. This will necessarily involve reading of books and papers in addition to understanding material presented in the lectures.

• Demonstrated their ability to read the relevant scientific literature and to write an associated review.

• Demonstrated their ability to bring together all the aspects of the course by conducting a group design study.

• Developed an understanding of the relevance and limitations of the destructive and non-destructive test methods used for composites.

• Demonstrated their ability to carry out a major research project.

• Demonstrated their ability to communicate clearly and succinctly both orally and in writing.

• Developed an appreciation of the interdisciplinary nature of composite materials and hence have the ability to communicate with and understand the problems of workers in specialities different from their own.

The background information needed to fulfill the objectives is provided in the lecture and laboratory programme. Achievement of the objectives is monitored by performance in written examinations, by writing laboratory reports, a literature review, a group design study report and a project dissertation and by giving oral presentations on the literature review topic, design study and the research project.

Books/Journals - General Information

Introductory Textbooks
Each subject will have its own specific reading list but the following books give a general introduction to the field of composites:-

*Composite Materials: Engineering and Science*
F L Matthews & R D Rawlings, Woodhead Publishing Ltd

*An Introduction to Composites Materials, 2nd Edition*
D Hull & T W Clyne, Cambridge University Press

*Analysis and Performance of Fibre Composites, 2nd Edition.*
Agarwal & Broutman, Wiley

*Mechanics of Composite Materials,*
Jones, Scripta Book Co.

*Mechanical Testing of Advanced Fibre Composites*
J M Hodgkinson (Ed), Woodhead Publishing Ltd
Journals

The following journals may be of interest to you:

- Advanced Materials & Processes
- British Journal of Non-Destructive Testing
- Composites Part A
- Composite Science & Technology
- Composite Structures
- Engineering Fracture Mechanics
- International Journal of Fracture
- Journal of Adhesion
- Journal of Adhesion Science & Technology
- Journal of Composite Materials
- Journal of Applied Polymer Science
- Journal of Materials Science
- Journal of Material Science Letters
- Journal of Mechanics & Physics of Solids
- Journal of Reinforced Plastics & Composites
- Material Evaluation
- Polymer Composites
- Polymer Engineering & Science Wear

There are a number of other journals that include composites research papers.

Requirements of the Course

Subject (Module) Information

You can view your lecturers, terms, module descriptors - includes aims, syllabus, prerequisites, learning outcomes, teaching methods, assessment and reading list - on DSS (Departmental Student System) http://www.imperial.ac.uk/dss

Contact details of lecturers can also be found under relevant module (under Teaching Team) on Blackboard Learn http://www.imperial.ac.uk/admin-services/ict/self-service/teaching-learning/elearning-services/blackboard/

This programme has no optional modules, all components are core.

Autumn Term

Course Title
- AEM-CM01 Introduction to Composites
- AEM-CM02 Revision Stress Analysis
- AEM-CM04 Revision Chemistry
- AEM-CM03 Introduction to Labs
- AEM-CM05 Fibres
- AEM-CM06 Interfaces
- AEM-CM07 Manufacturing Science
- AEM-CM08 Composites Systems (Polymer, Metal, Ceramic)
- AEM-CM09 Stiffness and Strength
- AEM-CM10 Non Destructive Evaluation (NDE)
- AEM-CM11 Mechanical Testing
- AEM-CM25 Laboratory Sessions
- AEM-CM26 Literature Review (undertaken during non-timetabled time)
- AEM-M01 Technical Writing and Presentations
Spring Term
Course Title
AEM-CM12 Lifecycle Assessment and Recycling of Composite Materials
AEM-CM13 Stress Analysis
AEM-CM14 Joining
AEM-CM15 Fracture
AEM-CM16 Laminate Analysis
AEM-CM17 Design
AEM-CM18 Fatigue
AEM-CM19 Analytical Techniques
AEM-CM20 Finite Element Analysis
AEM-CM21 Environmental Effects
AEM-CM22 Impact
AEM-CM23 Design Study (also undertaken during non-timetabled time)
AEM-CM26 Literature Review (undertaken during non-timetabled time)

Coursework Overview
Coursework consists of the following items: literature review, laboratory reports, design study. The latter is a group activity whereas all other coursework is individual.

- **Literature review**: the literature review constitutes a written paper of about 5000 words and an oral presentation. Guidance on the format of the written work is given separately. Students select a topic from a list supplied at the beginning of the academic session (see below for Literature Review Overview)

- **Laboratory work**: students conduct laboratory work in groups, but are required to submit individual reports. Four ‘short’ and four ‘long’ reports are required, the format for each type being given separately. Details of the current session’s laboratories are given in the later section “Laboratory Programme”.

- **Design study**: students work on a defined task in groups of about four or five students. There are regular progress meetings, at which oral presentations are made and progress reports submitted, and a final oral presentation and report. The latter will contain individual and group contributions.

Literature Review Overview
This is just a brief overview of your Literature Review. The Literature Review is undertaken in the Autumn and continues into the early part of the Spring term. Full details, including the list of available topics, will be in a separate MSc Literature Review Information document which will be issued to you on Blackboard Learn under module AEM-CM26 Literature Review at the start of term.

The Literature Review is assessed by a report and an oral presentation.

Exams (Written Papers) Overview
There are four written papers, each of 3 hours duration, taken at the beginning of the Summer term. The marking scheme for the course awards a pass mark for each paper of 37.5% but to pass this element students must additionally obtain an aggregate across the four papers of 50%.
Distribution of Examination Questions - TO UPDATE

<table>
<thead>
<tr>
<th>Q</th>
<th>Examiner</th>
<th>Topic</th>
<th>No of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAPER 1</td>
<td>1)</td>
<td>Prof E Greenhalgh</td>
<td>Introduction to Composites</td>
</tr>
<tr>
<td></td>
<td>2)</td>
<td>Dr S Shamsuddin</td>
<td>Fibres</td>
</tr>
<tr>
<td></td>
<td>3)</td>
<td>Dr S Shamsuddin</td>
<td>Polymer Matrix</td>
</tr>
<tr>
<td></td>
<td>4)</td>
<td>Dr S Shamsuddin</td>
<td>Ceramic Matrix</td>
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<td></td>
<td>5)</td>
<td>Dr Q Li</td>
<td>Metal Matrix</td>
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<tr>
<td></td>
<td>6)</td>
<td>Dr S Shamsuddin</td>
<td>Interfaces</td>
</tr>
<tr>
<td>PAPER 2</td>
<td>1)</td>
<td>Dr M Clifford</td>
<td>Manufacturing Science</td>
</tr>
<tr>
<td></td>
<td>2)</td>
<td>Dr W Broughton</td>
<td>Manufacturing Science</td>
</tr>
<tr>
<td></td>
<td>3)</td>
<td>Dr M Clifford</td>
<td>Manufacturing Science</td>
</tr>
<tr>
<td></td>
<td>4)</td>
<td>Dr S Nguyen</td>
<td>Mechanical Testing</td>
</tr>
<tr>
<td></td>
<td>5)</td>
<td>Prof P T Curtis</td>
<td>Stiffness &amp; Strength</td>
</tr>
<tr>
<td></td>
<td>6)</td>
<td>Prof P T Curtis</td>
<td>Stiffness &amp; Strength</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prof E Greenhalgh</td>
<td>Stiffness &amp; Strength</td>
</tr>
<tr>
<td>PAPER 3</td>
<td>1)</td>
<td>Dr S Madhi</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>2)</td>
<td>Dr K Lee</td>
<td>Lifecycle Assessment</td>
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<tr>
<td></td>
<td>3) &amp; 4)</td>
<td>Dr V Tagarielli</td>
<td>Laminate Analysis</td>
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<tr>
<td></td>
<td>5)</td>
<td>Prof E Greenhalgh</td>
<td>Analytical Techniques</td>
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<tr>
<td></td>
<td></td>
<td>Dr S Shamsuddin</td>
<td>Analytical Techniques</td>
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<tr>
<td></td>
<td>6)</td>
<td>Dr W Broughton</td>
<td>Joining</td>
</tr>
<tr>
<td>PAPER 4</td>
<td>1) &amp; 2)</td>
<td>Dr Z Sharif Khodaei</td>
<td>Stress Analysis</td>
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<td></td>
<td>3)</td>
<td>Prof P T Curtis</td>
<td>Fatigue</td>
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<tr>
<td></td>
<td>4)</td>
<td>Prof E Greenhalgh</td>
<td>Impact</td>
</tr>
<tr>
<td></td>
<td>5)</td>
<td>Prof P T Curtis</td>
<td>Environmental Effects</td>
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<tr>
<td></td>
<td>6)</td>
<td>Dr A Taylor</td>
<td>Fracture</td>
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</tbody>
</table>

Research Project Overview

This is just a brief overview of your research project. Full research project details will be issued in a separate MSc Projects Information document on Blackboard Learn under module AEM-CM24 Major Individual Research Project along with the list of project topics available.

The project constitutes a piece of individual research that for full-time students is a continuous activity from immediately after your Summer term examination session to the end of the course (approximately the second week of September which is when you are expected to give an oral presentation and submit your project report). Some preparatory work (literature searching, project planning, assembling materials and test apparatus where relevant) is expected to be undertaken as soon as your project has been allocated and before your Summer term examination session. You are expected to work full-time during the project period and should assume the working week is at least 40 hours though you should spend considerably more time on the project by additionally working during evenings and weekends in order to achieve your goals. Requests for a ‘holiday’ during the project period will not be entertained. Students are not to be absent from College without permission from the Course Director (project supervisors, internal or external are not authorised to grant leave of absences). All requests for leave of absence must be sent to the Course Director via the Postgraduate Administrator in the first instance.

The project is assessed by progress in conducting the work, a dissertation of 40 pages, log book and an oral presentation.

There are penalties for late submission of project work on exactly the same basis as those for
coursework (See section “Coursework Submission Penalty Scheme”).

Advice on aspects of report writing will be provided separately, but students are advised to consult dissertations from previous years to see the standard expected (in particular refer to those projects which have won prizes). Past projects can be accessed via the Student Portal on Sharepoint.

You will also be able to find past Literature Reviews and Bridge Design Study reports here.

**Laboratory Programme**

**General Information**

The laboratory programme is arranged so as to cover laminate and specimen preparation, mechanical testing, non-destructive testing (NDT), physical characterisation and microscopy. There are supporting lectures on mechanical testing, NDT, and analytical methods some of which, unavoidably, may come before or after the lab classes.

**Laboratory Log Book (required)**

Handouts are provided for most of the laboratory classes, but you are required to keep a laboratory logbook in which to record your own experimental observations, notes, calculations and results, etc. Chartwell Laboratory Book ref. A4-642K is strongly recommended, and may be bought from the College Shop. Sufficient information should be included to allow a report to be written on the task undertaken, and to allow another person to carry out the experiments without reference to other information. **The laboratory logbook must be submitted for marking.** The marks awarded count towards your final result, and the assessment takes into account presentation, relevance of information included, etc. Please note: you must NOT submit a re-written or word processed version of the Logbook, the original is required.

**Laboratory Assessment**

In addition to submitting the log book, you are also required to submit four ‘short’ reports (SR), as indicated below.

Also four ‘long’ reports (LR) will be required, one at the end of the Autumn term, and three during the Spring term. It is anticipated that some further reading may be needed when compiling these reports. Details are given below.

Information on report requirements and format is given in section “Laboratory Reports”.
Laboratory Sessions
There will be a special introductory session to acquaint you with general procedures and requirements, before the start of the full programme. Each class will be supervised by a member of staff or a PhD student. You MUST comply with all safety instructions.

Details of the scheduled classes are given below. All classes take place in the Autumn term. You can find further details on the laboratory timetable.

Lay-up: Cutting and stacking prepreg to produce flat sheets and a simple laminated channel section. Preparation for autoclave cure.

Test piece preparation: Cutting cured panels to produce test-pieces for mechanical testing, and cutting end-tab material. Abrading, cleaning and bonding on end-tabs and end-blocks to specimens as appropriate.

Tensile testing (SR2): Determination of tensile modulus and strength demonstrating the use of strain gauges, and extensometers.

Flexural testing (LR1): Determination of flexural modulus and strength using several standards.

Compression testing (SR3): Determination of compressive modulus and strength. Uses several test techniques including Celanese, Imperial College jig and anti-buckling guides.

Fracture toughness (SR1): Determination of interlaminar fracture toughness in Modes I and II.

Shear testing (SR4): Determination of in-plane shear properties using a strain gauged ±45° testpiece. Determination of interlaminar shear strength using a short beam test. Determination of shear modulus and strength using a notched beam specimen.

Distortion of channels (LR4): Determination of ‘spring-back’, ‘spring-forward’ of channel sections prepared during the ‘Lay-up’ lab. Compare with predicted values and flat sheets of the same lay-up.
Laboratory Supervisors

Lab Topic
Fracture (SR1)
Tension (SR2)
Compression (SR3)
Shear (SR4)
Flexure (LR1)
NDE (LR3)

Supervisor
Professor Emile Greenhalgh (e.greenhalgh@imperial.ac.uk)
TBC
Professor Emile Greenhalgh (e.greenhalgh@imperial.ac.uk)
TBC
Professor Emile Greenhalgh (e.greenhalgh@imperial.ac.uk)

Laboratory Reports

Short Reports
Short reports should be regarded as a formal write-up of your log book entries. Text should be limited to six pages, 1500 words (maximum) with only a few supporting tables or figures (word limit does not include references).

Long Reports
A long report might contain the same material as a short report but in expanded form (approx. 2500 words) and, in addition, a much more extensive discussion which must include a comparison of your results with other publications. Obviously this means reading around the subject and using appropriate references.

Long Report No 1: Flexure

You are required to write a 'conventional' report on the flexural tests that you will undertake in the laboratory. These tests will involve a comparison of Standards for unidirectional CFRP.

Your report should include the following sections: Abstract, Introduction, Experimental Procedure, Results, Discussion (including comparison with published data), Conclusions, References, Appendices.

Long Report No 2: DSC/DTMA

Your company is concerned about the quality of the prepreg it receives from a particular supplier. It has been suggested that DSC/DMTA might be used to check the resin in the prepreg. However, the company does not currently possess the equipment. What options are there? Is there a cheaper alternative to purchasing such equipment?

You are asked to prepare a report for your manager that outlines the procedures very briefly, compares the various techniques, and recommends an appropriate course of action.

A 'conventional' report (e.g. Report No 1) is not required and any details you decide to include should be placed in an Appendix. Your manager will need to make a decision on the information you supply. Make sure, therefore, that issues such as cost are considered. Use your imagination!
**Long Report No 3: NDE**

A report will be required on some aspect of NDE. The task will be described by Prof Cawley.

**Long Report No 4: Channel Warping**

A report will be required on the use of laminate analysis. Experimental data will be provided on the distortion of channel sections.

A demonstration on the use of the Centre’s laminate analysis software will be given in the Spring term, after the conclusion of the corresponding lectures.
4. Assessment

MSc Award Criteria
To be awarded the MSc students must pass separately, according to the criteria given below, each element of the examination (coursework, written papers and research project). Failure in one or more elements cannot be compensated by superior performance in other elements.

Pass Criteria for the award of MSc: 50% is obtained in each of the three elements.

Criteria for the award of Merit: 60% is obtained in each of the three elements.

Criteria for the award of Distinction: 70% is obtained in each of the three elements.

Part-time students must pass agreed elements each year according to their length of study. Failure to pass agreed elements may mean an extension of the period of attendance.

Distribution of Marks
The distribution of marks for the various parts of each of the three assessment elements is given below:

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<thead>
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<th>Written examination element</th>
<th>% of Element</th>
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<tbody>
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<td>(pass mark: 37.5% per paper, 50% aggregate)</td>
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</table>

<table>
<thead>
<tr>
<th>Course work element</th>
<th>% of Element</th>
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</thead>
<tbody>
<tr>
<td>Literature Review:</td>
<td>19.05%</td>
</tr>
<tr>
<td>Report</td>
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<tr>
<td>Oral</td>
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</tr>
<tr>
<td>Design Study</td>
<td>19.05%</td>
</tr>
<tr>
<td>Laboratories:</td>
<td>9.53%</td>
</tr>
<tr>
<td>4 Short Reports (equally weighted)</td>
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</tr>
<tr>
<td>4 Long Reports, Log Book (equally weighted)</td>
<td>47.61%</td>
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<tr>
<td>(Overall pass mark: 50%)</td>
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</table>

<table>
<thead>
<tr>
<th>Project element</th>
<th>% of Element</th>
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<tbody>
<tr>
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<tr>
<td>Dissertation</td>
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<tr>
<td>Oral</td>
<td>11.11%</td>
</tr>
<tr>
<td>Carrying Out Project</td>
<td>22.22%</td>
</tr>
</tbody>
</table>

Pass award - (37.5% in the individual exams, 50% in exam aggregate, 50% in overall coursework and 50% in all elements of the project)

Merit award - (60% in exam aggregate, overall coursework, project report and project aggregate)

Distinction award - (70% in exam aggregate, overall coursework, project report and project aggregate)
**Coursework Deadlines**
Coursework submission will be electronically via the online submission boxes on Blackboard Learn unless otherwise stated.

<table>
<thead>
<tr>
<th>Report Title</th>
<th>Submission Date</th>
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</thead>
<tbody>
<tr>
<td>Short Laboratory Report 2 - Tension</td>
<td>Within one week of laboratory class</td>
</tr>
<tr>
<td>Short Laboratory Report 3 - Compression</td>
<td>Within one week of laboratory class*</td>
</tr>
<tr>
<td>Short Laboratory Report 4 - Shear</td>
<td>Within two weeks of laboratory class</td>
</tr>
<tr>
<td>Long Laboratory Report 1 - Flexure</td>
<td>Friday 14 December 2018</td>
</tr>
<tr>
<td>Short Laboratory Report 1 - Fracture</td>
<td>Monday 14 January 2019</td>
</tr>
<tr>
<td>Literature Review (2 Hard Copies)</td>
<td>Friday 18 January 2019</td>
</tr>
<tr>
<td>Long Laboratory Report 3 - NDE</td>
<td>Friday 1 February 2019</td>
</tr>
<tr>
<td>Long Laboratory Report 4 - Channel Warping</td>
<td>Friday 15 March 2019</td>
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<tr>
<td>Laboratory Log Book</td>
<td>Friday 15 March 2019</td>
</tr>
<tr>
<td>Design Study Report</td>
<td>Friday 22 March 2019</td>
</tr>
<tr>
<td>Long Laboratory Report 2 – DSC/DTMA</td>
<td>Wednesday 15 May 2019</td>
</tr>
<tr>
<td>Project Report (2 Hard Copies)</td>
<td>Friday 13 September 2019</td>
</tr>
</tbody>
</table>

All reports to be submitted by 17.00 hrs via Blackboard. Some course organisers may also require a hard copy of report apart from those listed above but full instructions will be given to you when assignment is issued by course organiser or via Blackboard.

**Other Dates**
- **Literature Review Oral Presentation**: Tuesday 5 February 2019
- **Project Oral Presentation**: Thursday 12 September 2019

Examinations Paper 1, Paper 2, Paper 3 and Paper 4 to be timetabled in Summer exam period (Mon 29 April to Fri 10 May 2019) and a timetable will be issued in Spring term when finalised. Students are required to keep this whole period free until the timetable is finalised.

**Coursework Extensions**
Illness or serious personal problems/family matters may sometimes prevent you from completing a coursework on time. In such cases the Course Director may occasionally allow an extension. All requests for extensions must be filed on a coursework extension request form, which can be obtained from the student Sharepoint portal. All forms should be submitted to the Postgraduate Administrator. The form should contain a clear motivation for the request and shall, if possible, be accompanied by supporting documents (e.g. doctor’s letters, police reports etc). Other academic staff are not allowed to give extensions, but ask your supervisor or coursework marker to put their initials and date on the form if they support your application. You will be notified of the Course Director’s decision by the Postgraduate Administrator.

The following problems are normally not acceptable reasons for an extension:
- Loss of data due to lack of back-up files.
- Minor illness/equipment problems during a long project.
- Congestion of work due to poor planning of your time.
- Printer problems (plan printing your report several hours before hand-in time and make sure you have a back up printer).
Penalties for Late Submission of Assessed Work
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:

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

Note that failures of computers or printers WILL NOT be accepted as a valid excuse for late submission.

Additional Examination Arrangements
If you wish to apply for additional examination arrangements then you need to make the Postgraduate Administrator aware that you intend to apply during the first two weeks of the Autumn term (regardless of when your exams take place). The relevant documents then must be submitted as detailed in the sections below. (As physical disabilities may occur at any time during the year due to accidents etc then please notify the Postgraduate Administrator immediately and submit Appendix A).

For further details and documents referred to in the sections below please go to:


College Health Centre: If you cannot arrange an appointment quickly with your own GP then please go to the College Health Centre. When booking appointments please ensure you mention it is to apply for ‘Additional Examination Arrangements’.

http://www.imperialcollegehealthcentre.co.uk/

Disabilities Office: http://www.imperial.ac.uk/disability-advisory-service/

Notes on the Examinations
Students are required to complete all elements of the examinations (written papers, coursework, project). Failure to do so, other than on grounds of personal illness or the death of a near relative (spouse, parent or sibling), could result in the student being failed in the examinations as a whole and, therefore, being required to re-sit all elements in the following year.

Students who request a deferral of any element of the examinations must submit such requests to the Postgraduate Administrator in advance of the examinations. If the request is supported it will be submitted to the appropriate College committee for approval. Approval is only agreed in truly exceptional circumstance.

Please note the following:

- Exams already passed cannot be taken again just to improve grades.
• Students must turn up for examinations promptly. Late arriving students should report directly to the exam room.

• All exams notices will be posted on your notice board and you will at times be emailed to check information posted there.

• Candidates are not allowed to use their own calculator. At each examination taking place in this department, every candidate will be issued with a Casio FX-85GT PLUS calculator. Examples are available for practice (though not for loan).

Provisional Results Information

Coursework:
You can expect to receive marks for your coursework via the relevant BBL areas. In most cases, this will be accompanied either by a feedback form or you will be given an annotated version of your report. In general, we also make the mark scheme that will be used available to you before the assessment is due.

For the Short and Long Lab reports and the Log Book, the mark scheme and the feedback form are the same thing and can be found in the BBL area AEM-CM25 Composites Laboratories.

You should have your results between 4-6 weeks after submission at the latest. If this is not the case and you have not been advised directly of any delay, please ask your Course Representative to alert the Postgraduate Administrator so the matter can be resolved.

Examinations:
Usually, examination results are not released to students until after the Exam Board has met.

We can provide prospective employers/further education establishments with unofficial, provisional results prior to the exam board. If you require such a provisional unofficial transcript of available marks to be sent out before the exam board then please provide the Postgraduate Administrator with the relevant contact details (preferably email) for the organisation concerned, along with any applicable reference numbers.

Provisional results are not provided for Major Individual Research Projects.

Release of Official Examination Results/Awards
The Board of Examiners will meet to consider the results of the examinations in early November 2019 and results will be released to students only via student e-service within 10 days.

Those who have not managed a clear pass will be emailed by the Course Director with an individual letter, setting out possible courses of action within 10 days of the examiner’s board.

Registry will email you when the official results are released on-line. Please note that your final official results will only be available once you have received the notification email. Please refer to the Registry website below for information on the exam results process including how to obtain formal confirmation of your results and/or degree certificates in the case of graduating students: http://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/exam-results/
Illness in Connection to Exams

If you feel that an illness will seriously affect your exam performance you must report this before the exam or as soon as possible after and should provide evidence in form of a doctor's letter. The fact that an illness has hampered your exam preparations is not sufficient to not sit an exam, but will be considered in the evaluation of your exam results. However, remember that you are expected to prepare for the exam during the entire year and not just during two weeks prior to the exam!

If an ongoing illness prevents you from sitting an exam this must be supported by a doctor's letter clearly stating that you are unfit to sit the exam. If you become ill just before an exam you are expected to turn up at the College Health Centre at 8:30 am to be examined (tell reception that you are supposed to sit an exam to be seen urgently), unless you can show that you were unable to reach the College due to your illness. If you become ill during an exam you will be escorted to the College Health Centre for examination.

Mitigating Circumstances

Sometimes you might feel that you performed badly in an exam or a piece of coursework, or failed to attend an exam or hand in a piece of work at all, for an unavoidable reason that was not your fault, like illness, an accident or a distressing experience. The College understands this and has procedures for making sure that you are given special consideration if your work is affected by reasons out of your control.

If you think you deserve special consideration, the two most important things are as follows:

- You MUST inform the Postgraduate Administrator as soon as you know that you might have been affected. If it is going to affect your performance in an exam, try to tell us before the exam starts and ideally you should have already been to the Imperial College Health Centre for assessment (please refer to section 'Illness in Connection to Exams').
- For exams and coursework, you MUST collect and present evidence to show that you have experienced extenuating circumstances. This could be a doctor's note, a death certificate, a Police crime number or any other relevant documentation that you can acquire. It must be in English or an official translation into English.

Once you have notified a member of staff and obtained evidence, you must complete the ‘Mitigating Circumstances Claim Form’ and submit it with the relevant required documentation.

On this form, you will need to give a complete account of your extenuating circumstances, attach your evidence if needed, and submit it to the Postgraduate Administrator within 5 days (see last paragraph in this section). The information on the form will be kept strictly confidential and only read by a small panel of academic staff, who will decide if your circumstances were unavoidable and affected your performance; they will pass their verdict to the Board of Examiners, who can give you special consideration. Forms are available from the Student Portal on Sharepoint under 'Forms'.
It is essential that you provide a full, honest account of the situation on the form. The more information you give, the fairer the verdict will be. If you withhold information at the outset, it may not be considered if you reveal it later. In addition, putting false information on the form could lead to severe punishment, as it would be considered cheating.

**Please note that as stated on the mitigation forms your application (including supporting documentation) must be submitted within 5 working days of the examination or coursework submission date. Applications submitted after this 5 day period will not be considered. Ideally medical certificates should be obtained from Imperial College Health Centre. If supplied from other UK based practitioner they should be registered with the General Medical Council (GMC) as stated on the mitigation form.**

**Religious Obligations in Assessments**
The Department will where possible assist students with religious obligations where there are any clashes with examination assessments. Students are asked to read the following and inform the Postgraduate Administrator of any such instances immediately.


**Failures in Studies/Resits**
All decisions on student failures are taken at the Examiners Meeting in November, and are confirmed by the Chair of the Exam Board. Students who fail are allowed to re-sit the failed exams the following year (please note that under College regulations you are only allowed to resit failed examinations or resubmit coursework on ONE further occasion i.e. two attempts in total for any one exam or coursework).

**Appeals**
*There is no provision in regulations for appeals against the decision of Examiners to be made on academic grounds. Marks are only finalised at the final examiners’ meeting, where processes are approved by external examiners as well as the College examiners. This means that marks provided earlier in the academic year (for individual coursework items or examinations) might be adjusted, or revised, on the basis of examiners’ recommendations.*

Please note that the Department does not deal with any appeals. These are dealt with by the Registry so you should not submit this to any staff members in Aeronautics. Full information on the appeals process and how to appeal can be found at the Registry website below. Appeals can only be made once official results have been issued by the Registry on student e-service and they will email you when these are available to view. Please note that all appeals MUST be submitted within FOUR WEEKS of the results being released on student e-service.

Appeals are normally only approved if the College has made an administrative error or if new evidence has been provided after the initial decision was made. Minor issues can be handled within the Department but all appeals against the decisions of the Examiners Meeting must be filed with the Registry, who will assess the appeal and then forward it to the Department for recommendation. The Head of Department makes the final decision. Any appeals against this decision will be directed to the College Appeals Committee. For further information please refer to [http://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/appeals/](http://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/appeals/)
Past Examination Papers
Past examination papers and solutions are only available to students for the past TWO years (may be more for undergraduate courses). These are available via the Student Portal on Sharepoint.

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:


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 is considered a cheating offence and 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.

For further information, please refer to the Academic Misconduct Policy and Procedures section on page 39 of this handbook.

Compulsory Online Plagiarism Awareness Course
All Master’s students will be required to self-enrol onto the course which is available via Blackboard. Instructions on how to enrol onto the course can be found on the Graduate School’s Plagiarism Awareness Online Course webpage. The course will take approximately 1.5 hours to complete but can be saved and returned to at a later date. There is no limit to the amount of times students can take the course – it can be accessed anytime, so there will always be an opportunity to refresh understanding.

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

The deadline for completion of the Online Plagiarism awareness course is Friday 29 November. A few weeks before this Nora Mulvaney, the Departmental Librarian, will be giving a lecture on Avoiding Plagiarism and Referencing which you may find helps a great deal with the online course. Details of the lecture will be in your calendar.
5. Board of Examiners

MSc Composites: Board of Examiners

Chair of Board of Examiner – Professor Emile Greenhalgh

Module Lecturers and Project Supervisors make up the rest of the membership of the Board.

**External examiners**

Professor Pedro Camanho, Universidade do Porto (Academic)
Dr Paulo Lage, Airbus (Industrial)

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:


**Prizes**

Currently the Board of Examiners awards the following prizes to Composites students:

**Departmental Prize for Composites**– Awarded to the best student on the MSc in Composites.

Recipients will receive a monetary prize and a certificate.
6. Placements

For MSc students, this applies only if you undertake your Major Individual Research Project (AEM-CM24) externally. There are no other placements on this degree programme.

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)

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 Programme Director or 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.
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:

Dr Nigel MacCarthy  
Room 222, City & Guilds Building  
+44 (0)20 7594 5043  
n.maccarthy@imperial.ac.uk

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

- Safety Briefing (part of Start of Session)
- RAFT (Risk Assessment Training for Experimental Research Projects)

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.

**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](http://www.imperial.ac.uk/about/governance/academic-governance/regulations)
- [www.imperial.ac.uk/students/terms-and-conditions](http://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](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)

Academic Integrity
You are expected to conduct all aspects of your academic life in a professional manner. A full explanation of academic integrity, including information on the College’s approach to plagiarism is available on the College website:


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](http://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/

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/

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/
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 and Faculty support
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:

Postgraduate Tutor
The Department’s 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.

Faculty Senior Tutor
In the event that you would like to seek additional support or guidance, or that you wish to air your issues in confidence, the Faculty Senior Tutor, Dr Lorraine Craig, can be contacted by email l.craig@imperial.ac.uk in the first instance. Depending on the nature of your query, it may be passed onto other more relevant staff.

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 on Level 5 Sherfield 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

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

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

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.
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.

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.

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/chaplaincy

www.imperial.ac.uk/academic-english

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 fulfill 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
✉️ student.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 375+ 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](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.

[www.imperialgsu.com](www.imperialgsu.com)

**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](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

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

We have one Staff Student Committee for MSc students, which meets once a term – though students can always request additional meetings if necessary.

The Committee is made up of:

PGT Tutor
MSc Composites Course Director
MSc Advanced Computational Methods Course Director
MSc Advanced Aeronautical Engineering Course Director
Departmental Health & Safety Officer
Subject Librarian
Postgraduate Administrator (Secretary)
PG Departmental Representative
Student Representatives x 2 – MSc Advanced Computational Methods
Student Representatives x 2 – MSc Advanced Aeronautical Engineering
Student Representatives x 2 – MSc Composites
Only the Student Representatives are expected to attend these meetings. They gather feedback from their respective cohorts for discussion. The Postgraduate Administrator will contact the Representatives for any agenda items prior to the meeting.

Students can find minutes of the meetings (current and previous years) via the Student Sharepoint Portal.

**Progress Meetings**

Progress meetings are a less formal termly opportunity for the whole cohort to meet with your Course Director to talk about how the programme is going so far. Sometimes we will use this opportunity to provide specific information to you. This will appear in your timetable and we do recommend that you attend.
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)
- Postgraduate Taught Experience Survey (PTES) – Spring 2018

The PG SOLE survey 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.

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

**Graduation**
The Department does not deal with any aspect of the Graduation Ceremony. The College has a Graduation Office to deal with this and contact details and information of when your Graduation Ceremony will be can be found on their webpages.

http://www.imperial.ac.uk/graduation

**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 Composites, you may choose to go on to PhD study.