Energy related fields share common core knowledge

Be an Engineering/Science Leader that solves complex energy challenges

About Energy Course

The Tokyo Tech Energy Science and Engineering Graduate Major (abbreviated Energy Course) is a new graduate degree program for master and doctoral students. The program combines fundamental energy theory based coursework, career development courses, off-campus internships and thesis research to educate global engineers and scientists. In the various energy related fields, there is overlap or shared core knowledge in research, technology and policy. Developing a birds-eye view of the various energy fields is needed by tomorrow’s energy leaders to solve global energy problems. This brochure gives a brief introduction to energy course. Please see the course website and facebook page for further information on page 4.
Energy Course Participating Departments

"Energy course", builds upon the fundamental knowledge of physics, chemistry, materials science, mechanical/electrical engineering and economics to educate graduate students. Faculty from six different departments teach general energy core courses as well as discipline based courses. As a result, graduates gain fundamental knowledge across various energy research fields from experts not only at Tokyo Tech but also from companies and other universities. Students develop new knowledge and apply it during their thesis research. Students communicate their research results in their lab seminar, at the energy course poster session as well as at domestic and international conferences. Furthermore, students also learn interdisciplinary and cross-cultural leadership skills to communicate with society.
Degree program comparison

The table below is a comparison between the Energy Course master and doctoral degree programs.

<table>
<thead>
<tr>
<th>トピック / Topic</th>
<th>修士課程 / Master</th>
<th>博士課程 / Doctoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>必要単位数 / Coursework</td>
<td>30単位 / 30credits</td>
<td>24単位 / 24credits</td>
</tr>
<tr>
<td>修了年数 / Time to completion</td>
<td>2年 / 2years</td>
<td>3年 / 3years</td>
</tr>
<tr>
<td>論文研究 / Thesis research</td>
<td>必須 / Required</td>
<td>必須 / Required</td>
</tr>
<tr>
<td>インターンシップ / Internship</td>
<td>任意 / Optional</td>
<td>任意 / Optional</td>
</tr>
<tr>
<td>キャリア科目 / Career dev. course</td>
<td>必須 / Required</td>
<td>必須 / Required</td>
</tr>
<tr>
<td>投稿論文 / Journal publication</td>
<td>任意 / Optional</td>
<td>必須 / Required</td>
</tr>
<tr>
<td>中間発表 / Interim presentation</td>
<td>必須 / Required</td>
<td>必須 / Required</td>
</tr>
<tr>
<td>提供される学位 / Degree offered</td>
<td>理学、工学、学術 / Science, Engineering, Arts</td>
<td>理学、工学、学術 / Science, Engineering, Philosophy</td>
</tr>
</tbody>
</table>

所属の研究について / Department research activity

1. 化学系 / Department of Chemistry
2. 機械系 / Department of Mechanical Engineering
3. 電気電子系 / Department of Electrical and Electronic Engineering
4. 材料系 / Department of Materials Science and Engineering
5. 応用化学系 / Department of Chemical Science and Engineering
6. 融合理工学系 / Department of Transdisciplinary Science and Engineering
Admissions

Admission into the energy course graduate major takes place in September or April only after being accepted for graduate admission into one of the six departments listed on page 2 and joining a Professor’s lab that is affiliated with the Energy Course. The admission procedure for doctor and master students varies with the department and program such as whether a student is applying for admission in the domestic program (in Japanese) or the international graduate program where courses are taught in English. Please refer to the Tokyo Tech admission homepage for more information on admissions and attend a course briefing held periodically throughout the year.

Contact and Further Information

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Admission info for International students (in English)
www.titech.ac.jp/english/graduate_school/international/programs.html