**Applications of Biomedical Engineering (MPHY0039)**

**Description**

This module illustrates how the foundation knowledge of biomedical engineering is used in the provision of clinical services. Topics include: 1. electrophysiology: electroencephalography (EEG), electrical impedance tomography (EIT) and electromyography (EMG); 2. respiratory measurement: mechanics of breathing, diffusing capacity, whole body plethysmography; 3. urology: lower urinary tract, bladder, incontinence technology; 4. rehabilitation robotics and assistive technology: manual wheelchair, robots; 5. rehabilitation engineering: prosthetic leg, functional electrical stimulation.

A video description can be found at the UCL Media Central.

**Key information**

<table>
<thead>
<tr>
<th><strong>Year</strong></th>
<th>2020/21</th>
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</thead>
<tbody>
<tr>
<td><strong>Credit value</strong></td>
<td>15 (150 study hours)</td>
</tr>
<tr>
<td><strong>Delivery</strong></td>
<td>UG L6, Campus-based</td>
</tr>
<tr>
<td><strong>Reading List</strong></td>
<td><a href="#">View on UCL website</a></td>
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<tr>
<td><strong>Tutor</strong></td>
<td>Dr Terence Leung</td>
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<tr>
<td><strong>Term</strong></td>
<td>Term 2</td>
</tr>
<tr>
<td><strong>Timetable</strong></td>
<td><a href="#">View on UCL website</a></td>
</tr>
</tbody>
</table>

**Assessment**

- Written examination (main exam period): 100.0%

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://ucl.ac.uk).

**Disclaimer:** All information correct as of March 2020. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
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Key information
- **Year**: 2020/21
- **Credit value**: 15 (150 study hours)
- **Delivery**: PGT L7, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Terence Leung
- **Term**: Term 2
- **Timetable**: View on UCL website

Assessment
- Written examination (main exam period): 100.0%

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Reading List View on UCL website
Tutor Dr Terence Leung
Term Term 2
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