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;

**Key information**

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<tr>
<th>Year</th>
<th>2018/19</th>
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<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
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<tr>
<td>Delivery</td>
<td>UG L6, Campus-based</td>
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<td>Reading List</td>
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<tr>
<td>Tutor</td>
<td>Dr Terence Leung</td>
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<tr>
<td>Term</td>
<td>Term 2</td>
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**Assessment**

- Written examination (main exam period): 100%

**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)
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Key information
- Year: 2018/19
- 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%

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Disclaimer: All information correct as of December 2018. 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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