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
- Year: 2018/19
- Credit value: 15 (150 study hours)
- Delivery: UG L6, 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%

Find out more
For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

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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   - manual wheelchair, robots;

5. **Rehabilitation Engineering:**
   - prosthetic leg, functional electrical stimulation;

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

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