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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