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
- Year: 2019/20
- 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
Medical Physics and Biomedical Engineering

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

- Year: 2019/20
- 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%

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 August 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
Medical Physics and Biomedical Engineering

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.

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Key information
Year 2019/20
Credit value 15 (150 study hours)
Delivery UGM 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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