Computing in Medicine (MPHY0020)

Description

Students completing this course will be able to:

1. Critically evaluate a computer’s major hardware and software components;

2. Describe and demonstrate an understanding of the major uses of computers in a clinical setting;

3. Evaluate and justify technical, ethical, and legal aspects that need to be taken into account when implementing and using a hospital PACS system (e.g., data security);

4. Demonstrate an understanding of the fundamentals of computer programming. Write a MATLAB program to perform simple analysis and visualisation of medical data;

5. Demonstrate an understanding of basic MATLAB commands and programming concepts;

6. Demonstrate an understanding of basic principles of digital signal and image processing;

Key information

Year: 2018/19
Credit value: 15 (150 study hours)
Delivery: UG L6, Campus-based
Reading List: View on UCL website
Tutor: Dr Dean Barratt
Term: Term 1
Timetable: View on UCL website

Assessment

- Written examination (main exam period): 66%
- Coursework: 34%

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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Key information

Year: 2018/19
Credit value: 15 (150 study hours)
Delivery: PGT L7, Campus-based
Reading List: View on UCL website
Tutor: Dr Dean Barratt
Term: Term 1
Timetable: View on UCL website

Assessment

- Written examination (main exam period): 66%
- Coursework: 34%

Find out more

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Medical Physics and Biomedical Engineering

Computing in Medicine (MPHY0020)

**Description**

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2. Describe and demonstrate an understanding of the major uses of computers in a clinical setting;
3. Evaluate and justify technical, ethical, and legal aspects that need to be taken into account when implementing and using a hospital PACS system (e.g. data security);
4. Demonstrate an understanding of the fundamentals of computer programming Write a MATLAB program to perform simple analysis and visualisation of medical data;
5. Demonstrate an understanding of basic MATLAB commands and programming concepts;
6. Demonstrate an understanding of basic principles of digital signal and image processing;

**Key information**

- **Year**: 2018/19
- **Credit value**: 15 (150 study hours)
- **Delivery**: UGM L7, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Dean Barratt
- **Term**: Term 1
- **Timetable**: View on UCL website

**Assessment**

- Written examination (main exam period): 66%
- Coursework: 34%

**Find out more**

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