Medical Physics and Biomedical Engineering

Physics of the Human Body (MPHY0005)

**Description**

The module introduces the foundational physics needed to understand the function (and malfunction) of some of the major systems of the human body, linking physics to physiology and healthcare. You will learn: 1. How the body maintains an optimal internal environment by comparing human auto regulation with other examples of control in science and engineering; 2. To examine thermoregulation of the human body in some detail and see examples of how relatively simple physical principles can be used to explain aspects of human physiology; 3. About human vision and hearing systems; 4. About pressure, volume and flow in blood vessels and the brain; 5. To perform an optics experiment to develop experimental skills and identify limitations; 6. To design and perform a physiology experiment to consider the implications of human variability in experimental design and analysis;

**Key information**

- **Year**: 2020/21
- **Credit value**: 15 (150 study hours)
- **Delivery**: UG L5, 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): 70.0%
- Coursework: 20.0%
- Written examination (departmentally managed): 5.0%
- Report: 5.0%

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