MSc Research Project (MPHY0035)

Description

The MSc research project is a compulsory part of the Physics and Engineering Medicine MSc programme in which students undertake original research on a specific topic of their choice under the supervision of two supervisors with expertise in the field of the project. During the course of the project, students develop and apply a wide range of practical skills, including performing a critical review of the relevant scientific literature; defining the aims of the project and the problem(s) to be tackled; designing experiments; collecting and analysing data; interpreting experimental results; communicating and justifying methodologies, findings, and conclusions; and developing an awareness of ethical considerations and the real-world context of their project in a healthcare or industrial setting. Students generally choose a project that aligns with both their MSc specialisation route and personal interests. Most projects include elements of mathematics, physics, engineering and computing, but some have an emphasis on theoretical analysis and computer simulation, whilst others are strongly experimental in nature and involve building devices and/or using devices to collect data. Students following the Medical Image Computing route must select a research project with a substantial computing component (typically, software development). All students are required to submit a project plan and interim progress reports, and to present their research via scientific poster and oral presentations to an audience comprising other students and academic and research staff.

Key information

- **Year**: 2019/20
- **Credit value**: 60 (600 study hours)
- **Delivery**: PGT L7, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Ilias Tachtsidis
- **Term**: Academic year (terms 1, 2, and 3)
- **Timetable**: View on UCL website

Assessment

- Report: 60%
- Oral examination (departmentally managed): 30%
- Oral examination (departmentally managed): 10%

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