

Basic details

| | | | |
|---|--|-----------------|---|
| UID | <input type="text"/> | Cohorts covered | Earliest cohort <input type="text" value="2025-26"/> |
| Long title | <input type="text" value="Masters Research Project"/> | | |
| New code | <input type="text" value="PHYS70034"/> | New short title | <input type="text"/> |
| Brief description of module (approx. 600 chars.) | <input type="text" value="A 4-month research project on a state-of-the-art problem within the area of optics. The project will encompass either a laboratory-based practical project, computational project, or a theoretical project, either within one of our research groups or with an industrial partner, under the guidance of research-active staff. You will be able to choose from a range of topics that align with their interests and the background they have developed through their prior studies."/> | | |
| Available as a standalone module/ short course? | <input type="text" value="N"/> | | |

Statutory details

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|--------------|--------------------------------------|---------------------------------|--------------------------------|-------------|
| | ECTS | CATS | Non-credit | HECOS codes |
| Credit value | <input type="text" value="30"/> | <input type="text" value="60"/> | <input type="text" value="N"/> | |
| FHEQ level | <input type="text" value="Level 7"/> | | | |

Allocation of study hours

| | Hours | |
|-------------------|------------------------------------|--|
| Lectures | <input type="text" value="0"/> | |
| Group teaching | <input type="text" value="0"/> | <i>Incl. seminars, tutorials, problem classes.</i> |
| Lab/ practical | <input type="text" value="400"/> | |
| Other scheduled | <input type="text" value="20"/> | <i>Incl. project supervision, fieldwork, external visits.</i> |
| Independent study | <input type="text" value="330"/> | <i>Incl. wider reading/ practice, follow-up work, completion of assessments.</i> |
| Placement | <input type="text" value="0"/> | <i>Incl. work-based learning and study that occurs overseas.</i> |
| Total hours | <input type="text" value="750"/> | |
| ECTS ratio | <input type="text" value="25.00"/> | |

Project/placement activity

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|--------------------------------|----------------------------------|
| Is placement activity allowed? | <input type="text" value="Yes"/> |
|--------------------------------|----------------------------------|

Module delivery

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|---------------|---|-------|--|
| Delivery mode | <input type="text" value="Taught/ Campus"/> | Other | <input type="text"/> |
| Delivery term | <input type="text"/> | Other | <input type="text" value="May to September (4 months)"/> |

Ownership

| | |
|---------------------------------|--|
| Primary department | <input type="text" value="Physics"/> |
| Additional teaching departments | <input type="text" value="Projects in other departments or by external companies are possible"/> |
| | <input type="text"/> |
| | <input type="text"/> |

Delivery campus **South Kensington**

Collaborative delivery

Collaborative delivery? **N**

External institution **N/A**
External department **N/A**
External campus **N/A**

Associated staff

| Role | CID | Given name | Surname |
|---------------|-----|-------------|---------|
| Module Leader | | Christopher | Dunsby |
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Learning and teaching

Module description

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|--------------------------------|---|
| Learning outcomes | <p>On completion of this module you will be able to:</p> <ul style="list-style-type: none">- design a research plan for addressing the problem being pursued- critically assess techniques appropriate to meeting the project's aims- carry out laboratory/computational/theoretical work at the state-of-the-art- evaluate the performance of different methods and their suitability for the problem studied- present, by both a written thesis and an oral presentation, on the research problem and addressing the problem |
| Module content | <p>A research-led project in a chosen area of optics and photonics. This is a substantial, open-ended project which tackles an open problem in optics and photonics, or may make a significant, stand-alone major research project within the department. It may be theoretical, laboratory based or computational in nature. The project is selected from topics offered by research staff, and is supervised by research staff.</p> |
| Learning and Teaching Approach | <p>Students will work individually or in pairs on a research-led project with a high degree of freedom. Project choice is decided through discussion between the student and project supervisor. The project runs once students have completed their last examinations and runs for 4 months (May to September). During this period students have regular meetings with the project supervisor giving students an opportunity to discuss progress and future plans.</p> |
| Assessment Strategy | <p>The module is assessed by a written thesis (dissertation) that contributes 80% of the total mark. Students submit their own individual dissertation. Students working on their own give a 15-minute presentation followed by 5 minutes of questions to the whole MSc class plus the project's supervisor(s) and other students. This presentation has a weight of 20%. Students supervised in pairs give a joint 23-minute presentation followed by 5 minutes of joint questions.</p> <p>Students will also receive feedback on a progress and future plans oral presentation (to the supervisor) which they give approximately 1.5 months into their project and which does not count towards the overall mark of the module.</p> |
| Feedback | <p>Informal feedback will be provided to the students from their project supervisor(s) continuously throughout the duration of the project. Formative feedback is also provided on the progress and future plans presentation.</p> <p>Students will receive feedback from the supervisor on the structure of their thesis and on any other issues that they wish to consult their supervisor on.</p> |

Reading list

A set of initial reading appropriate to the particular project will be provided by the

Quality assurance

Date of first approval

Date of last revision

Date of this approval

June 2024

Module leader

Christopher Dunsby

Notes/ comments

Office use only

QA Lead

Department staff

Date of collection

Date exported

Date imported

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Latest cohort

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dependence. Initial
Project work begins
(September). During this
opportunity to discuss

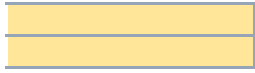
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any specific areas

supervisor.



16/06/2017