

Basic details

UID	<input type="text"/>	Cohorts covered	Earliest cohort 2024-25	Latest cohort <input type="text"/>
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 <i>(approx. 600 chars.)</i>	<input type="text" value="A 4-month research project on a state-of-the-art problem within the area of optics and photonics. The project will encompass either a laboratory-based practical project, computational project or theoretical project, either within one of our research groups or with an industrial partner and under the guidance of research-active staff. You will be able to choose from a range of projects based on their interests and the background they have developed through their prior studies on the MSc."/>			
				491 characters
Available as a standalone module/ short course?	<input type="text" value="N"/>			

Statutory details

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

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, revisions.</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

Is placement activity allowed?

Module delivery

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	<input type="text" value="South Kensington"/>

Collaborative delivery

Collaborative delivery?

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

Associated staff

Role	CID	Given name	Surname
Module Leader		Christopher	Dunsby

Learning and teaching

Module description

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 work conducted for 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 contribute to a 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 a member of 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 independence. Initial project choice is decided through discussion between the student and project supervisor. Project work begins 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. Each student submits 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 academic staff that has a weight of 20%. Students supervised in pairs give a joint 23-minute presentation followed by 7 minutes for joint questions.</p> <p>Students will also receive feedback on a progress and future plans oral presentation (to the whole class plus supervisor) which they give approximately 1.5 months into their project and which does not contribute to the overall mark of the module.</p>
Feedback	<p>Informal feedback will be provided to the students from their project supervisor(s) continuously through 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 specific areas that they wish to consult their supervisor on.</p>
Reading list	<p>A set of initial reading appropriate to the particular project will be provided by the supervisor.</p>

Date of first approval
Date of last revision June 2024
Date of this approval

QA Lead
Department staff
Date of collection

Module leader Christopher Dunsby

Date exported
Date imported

Notes/ comments