

Basic details

UID	<input type="text"/>	Cohorts covered	Earliest cohort 2024-25	Latest cohort <input type="text"/>
Long title	<input type="text" value="MRes Research Project"/>			
New code	<input type="text" value="PHYS70050"/>	New short title	<input type="text"/>	
Brief description of module <i>(approx. 600 chars.)</i>	<input type="text" value="A nine-month research project is the largest core module of the MRes Photonics. You will work on a state-of-the-art problem within a research area of photonics, all embedded within a research group and under the guidance of research-active staff. You will agree a project through discussion with project supervisors at the start of the academic year ."/>			
	352 characters			
Available as a standalone module/ short course?	<input type="text" value="N"/>			

Statutory details

Credit value	ECTS <input type="text" value="60"/>	CATS <input type="text" value="120"/>	Non-credit <input type="text" value="N"/>	HECOS codes	<input type="text"/>
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="800"/>	
Other scheduled	<input type="text" value="30"/>	<i>Incl. project supervision, fieldwork, external visits.</i>
Independent study	<input type="text" value="670"/>	<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	1500	
ECTS ratio	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="January to September (9 months)"/>

Ownership

Primary department	<input type="text" value="Physics"/>
Additional teaching departments	<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"> <li>- appraise and interpret the scientific literature to critically review the background of a topic in a particular research area right up to the state-of-the-art, and synthesise this into a written report and associated oral presentation</li> <li>- design a research plan for addressing the problem being pursued</li> <li>- critically assess techniques appropriate to meeting the project's aims</li> <li>- carry out laboratory/computational/theoretical work at the state-of-the-art</li> <li>- evaluate the performance of different methods and their suitability for the problem studied</li> <li>- critique their work in the context of the research group in which the work was carried out and the wider research field</li> <li>- present, by both a written thesis and an oral presentation, on the research problem and work conducted for addressing the problem</li> </ul>
Module content	<p>The module will consist of supervised original research in an area of photonics. The students will complete an independent literature review to develop a full understanding of the background to their project work, and its research and development to its current standing. The main project work may be theoretical, laboratory based or computational and is supervised by a member of the academic staff.</p>
Learning and Teaching Approach	<p>Students will work individually on a research-led project with increasing independence. Initial project choice is decided through discussion between the student and project supervisor. Project work begins at the beginning of term two and runs for 9 months (January 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 assessment is based on a written report on their interim literature review and an associated 15-minute presentation, followed by 5 minutes of questions, to their peers, the MSc Optics and Photonics class plus the project's supervisor and other academic staff .</p> <p>The final project thesis (dissertation) is submitted in September. The students also give an associated 15-minute presentation, followed by 5 minutes of questions, to their peers, the MSc Optics and Photonics class plus the project's supervisor and other academic staff .</p> <p>Students will also receive formative feedback on a progress and future plans oral presentation (to their peers and the MSc Optics &amp; Photonics students plus supervisor) which they give in July 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. Feedback is also provided to the formative progress and future plans presentation. 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>

## Quality assurance

Date of first approval   
Date of last revision   
Date of this approval

Module leader

Notes/ comments

## Office use only

QA Lead   
Department staff   
Date of collection

Date exported   
Date imported