

## PH3110 Experimental or Theoretical Project

<b>Department:</b>	<b>PHYSICS</b>	<b>Academic Session:</b>	<b>202122</b>
<b>Module Title:</b>	Experimental or Theoretical Project	<b>Module Value:</b>	15 credits / 7.5 ECTS Honours
<b>Module Code:</b>	PH3110	<b>Module JACS Code:</b>	F300
<b>Availability:</b>	Spring Term	<b>Status:</b>	Mandatory/Condonable for BSc programmes, apart from programmes including another subject for which a project course is taken in that other subject
<b>Pre-requisites:</b>	None	<b>Co-requisites:</b>	
<b>Co-ordinator:</b>	Prof P Teixeira-Dias		
<b>Module Staff:</b>	Academic staff of the Physics Department		
<b>Aims:</b>	<p>To provide the high point of the three year physics degree, which enables students to use their scientific knowledge, their ability to plan and execute an extended experimental or theoretical investigation and use all their communication skills to describe their results.</p> <p>To provide an understanding of some techniques of research, including the presentation of results.</p>		
<b>Learning Outcomes:</b>	<p>On completion of the course, students should be able to:</p> <ul style="list-style-type: none"> <li>• appreciate the principles of research methodologies gained under individual supervision by a member of academic staff;</li> <li>• design and execute a project.</li> <li>• produce a significant report on their project, which they can show at career interviews and discuss its content with confidence.</li> <li>• produce a significant poster on their project (which they can show at career interviews) and discuss its content with confidence</li> </ul>		
<b>Module Content:</b>	The student chooses the project in consultation with a member of staff. The subject of the project may be in physics, electronics or astrophysics and may be experimental or theoretical in emphasis.		
<b>Teaching &amp; Learning Methods:</b>	<p>11 hours (one hour per week) of tutorial sessions with supervisor.</p> <p>2 hours of introductory lectures</p> <p>80 hours spent in laboratory, computing with supervision</p> <p>1 hour poster production.</p> <p>56 hours private study, writing report and preparing talk and poster.</p>		
<b>Details of teaching resources on Moodle:</b>	<ul style="list-style-type: none"> <li>• Course outline</li> <li>• Additional notes</li> <li>• Links to material of interest</li> </ul>		
<b>Formative Assessment &amp; Feedback:</b>	<p>Students must plan and schedule their work in consultation with their supervisor and adviser.</p> <p>A draft of the final report is read by the supervisor, prior to submission of the final report. There is an oral presentation and poster presentation, on which feedback will be provided.</p>		
<b>Summative Assessment:</b>	<p><b>Project report:</b> (80%) 5,000 words maximum</p> <p><b>Oral Presentations:</b> (10%) 15 minute talk</p> <p><b>Poster Presentation:</b> (10%)</p> <p><b>Deadlines:</b> As announced on Moodle</p>		

The information contained in this course outline is correct at the time of publication, but may be subject to change as part of the Department's policy of continuous improvement and development. Every effort will be made to notify you of any such changes.