PH3110 Experimental or Theoretical Project

Department:	**PHYSICS**	**Academic Session:**	**201920**
Course Title:	Experimental or Theoretical Project	**Course Value: Level:**	15 credits / 7.5 ECTS Honours
Course Code:	PH3110	**Course JACS Code:**	F300
Availability:	Spring Term	**Status:**	Mandatory/Condonable for BSc programmes, apart from programmes including another subject for which a project course is taken in that other subject
Pre-requisites:	None	**Co-requisites:**	
Co-ordinator:	Prof P Teixeira-Dias		
Course Staff:	Academic staff of the Physics Department		
Aims:	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. To provide an understanding of some techniques of research, including the presentation of results.		
Learning Outcomes:	On completion of the course, students should be able to: • appreciate the principles of research methodologies gained under individual supervision by a member of academic staff; • design and execute a project. • produce a significant report on their project, which they can show at career interviews and discuss its content with confidence. • produce a significant poster on their project (which they can show at career interviews) and discuss its content with confidence		
Course Content:	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.		
Teaching & Learning Methods:	11 hours (one hour per week) of tutorial sessions with supervisor. 2 hours of introductory lectures 80 hours spent working on the project 1 hour poster production. 56 hours private study, writing report and preparing talk and poster.		
Details of teaching resources on Moodle:	• Course outline • Additional notes • Links to material of interest		
Bibliography:	As agreed with supervisor.		
Formative Assessment & Feedback:	Students must plan and schedule their work in consultation with their supervisor and adviser. 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.		
Summative Assessment:	**Project report:** (80%) 5,000 words maximum **Oral Presentations:** (10%) 15 minute talk **Poster Presentation:** (10%) **Deadlines:** As announced on Moodle		