1. **Title of the module**

PHYS6030 (PH603) - Physics Group Project

1. **School or partner institution which will be responsible for management of the module**

Physical Sciences

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 6

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Spring

1. **Prerequisite and co-requisite modules**

None

1. **The programmes of study to which the module contributes**

All BSc programmes for Physics, Physics with Astrophysics, and Astronomy, Astrophysics and Space Sciences

This is not available as a wild module.

1. **The intended subject specific learning outcomes.
On successfully completing the module students will be able to:**
2. Demonstrate an ability to identify relevant principles and laws when dealing with problems, and to make approximations necessary to obtain solutions.
3. Demonstrate an ability to present and interpret information graphically.
4. Demonstrate an ability to communicate scientific information, in particular to produce clear and accurate scientific reports.
5. Demonstrate an ability to make use of appropriate texts, research-based materials or other learning resources as part of managing their own learning.
6. **The intended generic learning outcomes.
On successfully completing the module students will be able to:**
7. Demonstrate knowledge and understanding of problem-solving skills, in the context of both problems with well-defined solutions and open-ended problems; an ability to formulate problems in precise terms and to identify key issues, and the confidence to try different approaches in order to make progress on challenging problems. Numeracy is subsumed within this area.
8. Demonstrate knowledge and understanding of investigative skills in the context of independent investigation including the use of textbooks and other available literature, databases, and the interaction with colleagues to extract important information.
9. Show communication skills in the area of dealing with surprising ideas and difficult concepts, including listening carefully, reading demanding texts and presenting complex information in a clear and concise manner. C&IT skills are an important element to this.
10. Demonstrate knowledge and understanding of analytical skills – associated with the need to pay attention to detail and to develop an ability to manipulate precise and intricate ideas, to construct logical arguments and to use technical language correctly.
11. Show personal skills – the ability to work independently, to use initiative, to organise oneself to meet deadlines and to interact constructively with other people.
12. **A synopsis of the curriculum**

This module provides an opportunity for students to work in groups to tackle open ended research problems. Project themes vary from industry linked projects to academic research and education/outreach projects. Students develop a variety of presentation skills and team work within the module as well as open ended project work.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

None - as this will depend entirely on the research needed to conduct the individual projects.

1. **Learning and teaching methods**

Total contact hours: 56

Private study hours: 94

Total study hours: 150

1. **Assessment methods**
	1. Main assessment methods

Assignment – report, 10,000 words (50%)

Assignment – poster (10%)

Presentation – 30 minutes (30%)

Performance – intra-group peer assessment (10%)

13.2 Reassessment methods

Like-for-like

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |
| Private Study | x | x | x | x | x | x | x | x | x |
| Workshops |  |  |  |  |  | x | x |  | x |
| Lecture |  | x | x |  |  |  | x |  | x |
| Meetings | x | x | x |  | x | x | x | x | x |
| **Assessment method** |  |  |  |  |  |  |  |  |  |
| Report | x | x | x | x | x | x | x | x | x |
| Presentation | x | x | x |  | x | x | x | x | x |
| Poster | x | x | x |  | x | x | x | x | x |
| Peer assessment |  |  |  |  |  |  |  |  | x |

1. **Inclusive module design**

The School recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

This module requires students to work with industry partners gaining skills that are transferrable internationally.

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**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 01/05/2021 | Minor | January 2021 | 5, 10, 13 |  |
|  |  |  |  |  |

Revised FSO Mar 2020