1. **Title of the module**

PSCI0023 (PS023) Properties of Matter

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 3

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

30 credits (15 ECTS)

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

Autumn and Spring

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

None

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

Forensic Science with a Foundation Year and Chemistry with a Foundation Year

1. **The intended subject specific learning outcomes.
On successfully completing the module students will be able to:**
2. Demonstrate knowledge and understanding of a range of chemistry-based topics
3. Use experimental laboratory skills
4. Solve problems and use data interpretation skills
5. **The intended generic learning outcomes.
On successfully completing the module students will be able to:**
6. Receive and respond to a variety of sources of information (e.g. textual, numerical, verbal, graphical).
7. Solve problems by a variety of methods (especially numerical) including the use of computers.
8. Display self-management plus organisational skills and the capacity to support life-long learning.
9. **A synopsis of the curriculum**

States of matter; radioactivity; real and ideal gases; water. Main group inorganic chemistry; phase diagrams, ideal solutions; miscibility, electrochemistry, forensic science techniques.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**
* Jackson, Andrew R.W and Jackson, Julie M, "Forensic Science", Pearson Prentice Hall, (2004).

Core Text:

* Matthews, Philip, "Advanced Chemistry", Cambridge University Press (1992).
* Burrows, Andy et al., "Chemistry3: Introducing Inorganic, Organic and Physical Chemistry", Oxford Press (2009)
1. **Learning and teaching methods**

Total contact hours: 80

Private study hours: 220

Total study hours: 300

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

LAB– Experiment C1 – 3 hours (3.333%)

LAB - Experiment C2 – 3 hours (3.333%)

LAB - Experiment C3 – 3 hours (3.333%)

LAB - Experiment C4 – 3 hours (3.333%)

LAB - Experiment C5 – 3 hours (3.333%)

LAB - Experiment C6 – 3 hours (3.333%)

In Course Test 1 – 1 hour (10%)

In Course Test 2 – 1 hour (10%)

Exam - 2 hours (60%)

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 | 9.1 | 9.2 | 9.3 |
| **Learning/ teaching method** |  |  |  |  |  |  |
| *Independent study* | **X** |  | **X** | **X** | **X** | **X** |
| *Lectures* | **X** |  | **X** | **X** | **X** | **X** |
| *Practicals* | **x** | **X** | **X** | **X** | **x** | **X** |
| **Assessment method** |  |  |  |  |  |  |
| *Class In Course Tests* | **x** |  | **x** | **x** | **x** |  |
| *Lab reports* | **x** | **X** | **x** | **X** | **x** | **X** |
| *Examination* | **x** |  | **X** | **x** | **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**

Chemistry is an international subject and industry. Chemistry principles are discovered, techniques are also developed, refined and shared by chemists across the globe. Mastery of the subject-specific learning outcomes, will equip students to apply the theories and techniques of this module in a wide range of international contexts. The support and activities SPS provides to its students is also designed with our international student body in mind.

**FACULTIES SUPPORT OFFICE USE ONLY**

**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) |
| 28/02/19 | Major | September 2019 | 8,9,13,14 | no |
|  |  |  |  |  |