1. KentVision Code and title of the module

PSCI0023– Properties of Matter

## Division and School/Department or partner institution which will be responsible for management of the module

Division of Natural Sciences (Chemistry and Forensic Science)

## The level of the module (Level 4, Level 5, Level 6 or Level 7)

Level 3

## The number of credits and the ECTS value which the module represents

30 Credits (15 ECTS)

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

Spring

## Prerequisite and co-requisite modules and/or any module restrictions

None

## The course(s) of study to which the module contributes

Compulsory for the following courses:

BSc (Hons) Chemistry with a Foundation Year;

BSc (Hons) Forensic Sciences with a Foundation Year.

Not available as an elective module

## The intended subject specific learning outcomes.On successfully completing the module students will be able to:

8.1 Demonstrate knowledge and understanding of a range of chemistry-based topics;

8.2 Demonstrate experimental laboratory skills;

8.3 Solve chemistry-based problems.

## The intended generic learning outcomes.On successfully completing the module students will be able to:

9.1 Receive and respond to a variety of sources of information (e.g. textual, numerical, verbal, and graphical).

9.2 Employ a variety of methods to solve problems (especially numerical) including the use of computers.

9.3 Use self-management plus organisational skills and to support life-long learning.

## A synopsis of the curriculum

This module will cover states of matter; radioactivity; real and ideal gases; water. Main group inorganic chemistry; phase diagrams, ideal solutions; miscibility, electrochemistry, forensic science techniques.

## Reading list

## The University is committed to ensuring that core reading materials are in accessible electronic format in line with the Kent Inclusive Practices.

## The most up to date reading list for each module can be found on the university's [reading list pages](https://kent.rl.talis.com/index.html).

## Contact Hours

Private Study: 250

Contact Hours: 50

Total: 300

## Assessment methods

13.1 Main assessment methods

* Lab Experiments (3 hours each) – 20%
* Online Quiz 1 (1 hour) – 10%
* Online Quiz 2 (1 hour) – 10%
* Examination (2 hours) – 60%

The lab experiments are compulsory sub-elements and at least one must be passed to complete the module.

13.2 Reassessment methods

* Like-for-like

## Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section 12) and methods of assessment (section 13)

**Module learning outcomes against learning and teaching methods:**

| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *9.1* | *9.2* | *9.3* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Private Study | **x** |  | **x** | **x** | **x** | **x** | **x** |
| Lecture | **x** |  | **x** | **x** | **x** | **x** | **x** |
| Laboratory Practical | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

**Module learning outcomes against assessment methods:**

| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *9.1* | *9.2* | *9.3* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Lab Experiments | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Online Quizzes | **x** |  | **x** | **x** | **x** | **x** |  |
| Examination | **x** |  | **x** | **x** | **x** | **x** |  |

## Inclusive module design

The Division 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

## Campus(es) or centre(s) where module will be delivered

Canterbury

## Internationalisation

Science is an international discipline with widely applicable international resonance. This module presents subject-specific knowledge generated, developed, and refined by scientists around the world. Mastery of the learning outcomes will equip students to apply the knowledge in a wide range of international contexts and these will be addressed in making the content relevant to current global issues. The Division of Natural Sciences is an international community of students and staff and group activities and teaching will provide a platform for internationally-focussed discussion.

**DIVISIONAL USE ONLY**

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

| Date approved | New/Major/minor revision | Start date of delivery of (revised) version | Section revised(if applicable) | Impacts PLOs (Q6&7 cover sheet) |
| --- | --- | --- | --- | --- |
| 28 Feb 2019 | Major | Sept 2019 | 8-9, 13-14 | No |
| 9 Dec 2021 | Minor | Sept 2022 | 5, 13-14 | No |