1. **Title of the module**

BI642 Cancer Biology

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

Biosciences

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)**

Autumn or spring

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

None

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

BSc Biomedical Science and related programmes

BSc Biochemistry and related programmes

BSc Biology and related programmes

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

8.1 . Understand the nature of cancer and the (molecular) processes underlying cancer formation and progression.

8.2. Demonstrate knowledge of the principles underlying anti-cancer therapies.

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

9.1. Demonstrate written communication skills at a standard appropriate for level 6 study

9.2. Acquire information from a wide range of information resources, including journals, books, electronic databases); maintenance of an effective information retrieval strategy

9.3. Understand, analyse and critically assess published scientific data

1. **A synopsis of the curriculum**

**Cancer formation and progression;** underlying factors, cancer cell heterogeneity, uncontrolled cell division, invasive growth/metastasis formation.

**The Molecular Biology of Cancer**: (Proto-)oncogenes, tumour suppressor genes, cell cycle control, cell death.

**Cancer therapies**

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

 **Core text**

Pecorino, L. Molecular Biology of Cancer: Mechanisms, Targets and Therapeutics (3rd edition) Oxford University Press. 2012.

**Supplementary materials**

Selected articles from scientific journals will be provided from the Templeman Library electronic journal collections.

Weinberg, R.A. The Biology of Cancer. New York; Abingdon: Garland Science, 2007

Alberts, B., Essential Cell Biology. New York; London: Garland Science 2011.

1. **Learning and teaching methods**

Total contact hours: 24

Private study hours: 126

Total study hours: 150

1. **Assessment methods**

**13.1. Main Assessment Methods**

Examination (60%), 2 hours

Continuous assessment (40%)

Critical analysis (word limit 750)

**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** | **9.1** | **9.2** | **9.3** |
| **Learning/ teaching method** |  |  |  |  |  |
| Lectures | **X** | **X** | **X** | **X** | **X** |
| Self-study | **X** | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |
| Examination | **X** | **X** | **X** | **X** | **X** |
| Critical analysis | **X** | **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**

Biosciences is an international discipline. This module presents subject-specific knowledge, research approaches and techniques, generated, developed and refined by scientists around the world. Mastery of the learning outcomes will equip students to apply the theories and techniques of the module in a wide range of international contexts. In compiling the reading list, consideration has been given to the range of texts that are available internationally and a selection has been identified to complement the delivery of the material. The School of Biosciences is an international community of students and staff. Group activities e.g. in practicals, tutorials, workshops and self-study will naturally draw on the international make-up of the student body; the module teaching team includes members with international experience of teaching and research collaboration.

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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) |
| 20/01/20 | Minor | Sept 20 | 13 | No |
|  |  |  |  |  |

Revised FSO Feb 2020