1. **Title of the module**

Pathogen Diagnosis, Therapeutics and Vaccines

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)**

7

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**

MSc Infectious Diseases (compulsory)

MSc Biomedicine (optional)

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

8.1 A systematic understanding of and a critical awareness of current problems and/or new insights related to pathogen diagnosis, therapeutics and vaccines.

8.2 A comprehensive understanding of techniques applicable to study pathogen diagnosis, therapeutics and vaccines.

8.3 An understanding how our current knowledge impacts upon future research to develop new approached for pathogen diagnosis, therapeutics and vaccines.

8.4 An ability to critically evaluate current research in the field of pathogen diagnosis and vaccination and to evaluate methodologies/research findings and develop critiques of them.

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

9.1 Communication skills: ability to organise information clearly, present information, and adapt information for different audiences.

9.2 Analytical skills: interpretation of data, marshalling of information from published sources, critical evaluation of published research.

9.3 Self-motivation and independence: time and workload management in order to meet personal targets and imposed deadlines.

9.4 Information technology skills: use of appropriate technology to retrieve, analyse and present scientific information.

1. **A synopsis of the curriculum**

As recent outbreaks of infectious diseases have illustrated, it is imperative to develop rapid diagnostics, effective therapeutics and new vaccines to combat emerging infections that are difficult to treat. This module will cover the approaches used in pathogen diagnosis as well as the cutting edge therapeutics available for the treatment of infectious diseases. The module will also focus on the biotechnological aspects of vaccine development.

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

The reading list will be comprised of research articles, which will be used to drive a case-study based approach to learning.

1. **Learning and teaching methods**

Total contact hours: 24

Private study hours: 126

Total study hours: 150

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

Presentation (30%)

Project Report (2,500 words) (70%)

13.2 Reassessment methods

Project Report (100%)

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 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |
| Private Study | **X** | **X** | **X** | **X** |  | **X** | **X** | **X** |
| Seminars/discussion sessions | **X** | **X** | **X** | **X** | **X** | **X** | **X** |  |
| Presentation | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |  |  |  |
| Presentation | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Project report | **X** | **X** | **X** | **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.

**If the module is part of a programme in a Partner College or Validated Institution, please complete sections 18 and 19. If the module is not part of a programme in a Partner College or Validated Institution these sections can be deleted.**

**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.**

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| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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