1. **Title of the module**

Outbreaks, Epidemics and Pandemics

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 outbreaks, epidemics and pandemics.

8.2 A comprehensive understanding of techniques applicable to epidemiological research.

8.3 An understanding how our current knowledge impacts upon future research to combat the spread of microbial infections.

8.4 An ability to critically evaluate current research in the field of epidemiology 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 COVID-19 has clearly demonstrated, there is an urgent need to improve our understanding of disease outbreaks and how to mitigate their impact upon human health. This module will cover the fundamentals of epidemiology, including the theory and practical approaches to study disease outbreaks. High profile examples will be analysed in terms of their human impact and disease tracking, and aspects of public health strategies and policy will be addressed.

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

Computer practical (30%)

Exam (70%)

13.2 Reassessment methods

Exam (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** |  |
| Computer practical | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |  |  |  |
| Computer practical | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| Examination | **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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