1. **Title of the module**

COMP8160 (CO816) - eHealth

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

Division of Computing, Engineering, Mathematical Sciences (CEMS)

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 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)**

Autumn or Spring

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

None

1. **The course(s) of study to which the module contributes**

Portfolio of Taught Postgraduate Courses in Computing

Portfolio of BSc Courses in Computing

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

8.1 Understand eHealth and related concepts in the use of information and communications technology in healthcare.

8.2 Identify strategies for the design, implementation and evaluation of eHealth systems to a given problem.

8.3 Be able to understand the different frameworks for effective health information management and be able to evaluate how to apply a given framework for a specific purpose.

8.4 Be aware of the legal background, security and ethical issues related to eHealth systems.

8.5 Be able to present and deliver innovative solutions to a range of eHealth problems and to a variety of audiences.

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

9.1 Be able to demonstrate comprehension of the trade-offs involved in design choices.

9.2 Demonstrate an understanding of theory and able to deploy it in design, implementation, information management and evaluation of computer-based systems.

9.3 Demonstrate effective use of general IT facilities.

9.4 Reflect on organisational skills including the management of people, operations management, marketing and organisational strategy.

9.5 Demonstrate understanding of economic, social, moral and ethical issues.

9.6 Show communication skills in delivering messages to a range of audiences about technical problems and their solutions.

1. **A synopsis of the curriculum**

An overview of basic concepts related to eHealth and a perspective on current HIT (Health Information Technology) and innovation. Review of current healthcare related IT systems. The use of information technology for handling clinical data, health systems. Data representation and knowledge management. Security and privacy. Ethics and legal requirements of eHealth systems. Clinical decision support systems. TeleHealth tools for remote diagnosis, monitoring, and disease management. Delivery and monitoring platforms for both hospitals and home environment. Innovation in eHealth systems leading to start-up companies.

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

Karen A. Wager, Frances W. Lee, John P. Glaser,Health Care Information Systems: A Practical Approach for Health Care Management, John Wiley & Sons, 2009

Tom Jones, Developing an E-Health Strategy: A Commonwealth Workbook of Methodologies, Content and Models, 2011

Martin Szomszor, Patty Kostkova, Electronic Healthcare: Third International Conference, eHealth 2010, Casablanca, Morocco, December 13-15, 2010

Joseph K. H. Tan, E-health Care Information Systems: An Introduction For Students and Professionals, John Wiley & Sons, 2005

1. **Learning and teaching methods**

Total contact hours: 22 hours

Private study hours: 128 hours

Total study hours: 150 hours

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

Short Essay (2000 words) (25%)

Mini-project, undertaken and assessed on group basis, (25 hours) (25%)

Examination (2 hours) (50%)

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* | *8.4* | *8.5* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* | *9.6* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |  |
| **Private Study** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** | **x** |
| **Lectures** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |
| **Short Essay** | **x** | **x** | **x** |  | **x** |  | **x** | **x** |  |  |  |
| **Mini Project** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| **Examination** | **x** | **x** | **x** |  | **x** |  | **x** |  |  |  |  |

1. **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

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

The topics addressed by this module relate to a field which is of international importance, given the global role of computers in today’s technological innovation. The topics covered by this module are international in nature, being identical worldwide and independent of traditional spoken language.

**DIVISIONAL 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 delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 23/11/2020 | Minor | September 2021 | 7, 16 | No |