1. **Title of the module**

COMP8810 (CO881) - Object-Oriented Programming

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

School of Computing

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

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

None.

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

Portfolio of Taught Postgraduate Programmes in Computing

MSc Information Security and Biometrics

MSc Mobile Applications Design

MSc Social Anthropology and Computing

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

8.1 Appreciate the rationale for and the basic concepts of a state-of-the-art programming paradigm and language that will be used throughout these degree programmes.

8.2 Develop simple programmes with this language that utilise built-in features for manipulating various types of data, selection, repetition and communication with users.

8.3 Appreciate the functions of and be able to make basic use of development tools for creating, editing, compiling, executing and testing such programmes.

8.4 Utilise online documentation for such tools and for the programming language API.

8.5 Appreciate the importance of good programming practice including coding style and inline documentation.

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

9.1 Make effective use of University computing facilities including the current operating system, email and web resources.

1. **A synopsis of the curriculum**

This module provides an introduction to object-oriented programming using the popular Java language. It is designed for beginners who have not studied computer programming before. By the end students will be able to develop simple programmes using Java.

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

Barnes, David J, and Kölling, Michael. (2016). *Objects First with Java - A Practical Approach using BlueJ* (6th Edition). Pearson.

1. **Learning and teaching methods**

Total contact hours: 30

Private study hours: 120

Total study hours: 150

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

Lab exercises (Pass/Fail)

In-class test (Pass/Fail)

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 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |
| Lectures | x | x | x | x | x |  | x |
| Practical classes | x | x | x | x | x |  | x |
| Private study | x | x | x | x | x |  | x |
|  |  |  |  |  |  |  |  |
| **Assessment method** |  |  |  |  |  |  |  |
| Lab exercises | x | x | x | x | x |  | x |
| Test | 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**

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.

**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.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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Revised FSO Jan 2018