1. KentVision Code and title of the module

COMP8810 (CO881) - Object-Oriented Programming

## Division and School/Department or partner institution which will be responsible for management of the module

Division of Computing, Engineering and Mathematical Sciences

School of Computing

## The level of the module (Level 4, Level 5, Level 6 or Level 7)

Level 7

## The number of credits and the ECTS value which the module represents

15 credits (7.5 ECTS)

## Which term(s) the module is to be taught in (or other teaching pattern)

Autumn

## Prerequisite and co-requisite modules and/or any module restrictions

None

## The course(s) of study to which the module contributes

Compulsory to the following courses:

MSc Computer Science with and without Year in Industry

MSc Computer Science (Artificial Intelligence) with and without Year in Industry

MSc Computer Science (Cyber Security) with and without Year in Industry

Optional to the following courses:

MSc Advanced Computer Science with and without Year in Industry

MSc Artificial Intelligence with and without Year in Industry

MSc Cyber Security with and without Year in Industry

MSc Networks and Security with and without Year in Industry

## 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.

## 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.

## 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.

## Reading list

## The University is committed to ensuring that core reading materials are in accessible electronic format in line with the Kent Inclusive Practices.

## The most up to date reading list for each module can be found on the university's [reading list pages](https://kent.rl.talis.com/index.html).

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

## Contact Hours

Private Study: 111

Contact Hours: 39

Total: 150

## Assessment methods

* 1. Main assessment methods

Lab exercises (Pass/Fail)

In-class test (Pass/Fail)

13.2 Reassessment methods

Like for like.

## Map of module learning outcomes (sections 9 & 10) to learning and teaching methods (section 13) and methods of assessment (section 14)

**Module learning outcomes against learning and teaching methods:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 9.1 |
| Lectures | x | x | x | x | x | x |
| Practical classes | x | x | x | x | x | x |
| Private study | x | x | x | x | x | x |

**Module learning outcomes against assessment methods:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** |  |  |  |  |  |  |
| Lab exercises | x | x | x | x | x | x |
| Test | x | x | x | x | x | x |

## 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

## Campus(es) or centre(s) where module will be delivered

Canterbury

## 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**

**Module record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

| Date approved | New/Major/minor revision | Start date of delivery of (revised) version | Section revised  (if applicable) | Impacts PLOs (Q6&7 cover sheet) |
| --- | --- | --- | --- | --- |
| 23/11/2021 | Minor | September 2022 | 12 | No |
|  |  |  |  |  |