1. **Title of the module**

EENG3340 (EL334) Internet Programming with Java

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

Engineering and Digital Arts

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

Level 4

1. **The number of credits and the ECTS value which the module represents**

15 (ECTS: 7.5)

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

Spring

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

EENG3130 (EL313) Introduction to Programming

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

BSc Multimedia Technology & Design

BSc Multimedia Technology & Design with a Year in Industry

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

1. Understand the principles of object oriented design.

2. Design and implement in Java a solution according to a program specification.

3. Design effective user interfaces in Java.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**
2. Make effective use of IT facilities for solving problems.
3. Manage their own learning and development, through self-directed study and working on a mini-project.
4. **A synopsis of the curriculum**

This module is concerned with developing skills in object-oriented modelling and user interface design. Practical skills needed to design and develop Java programs for networked environments are developed.  There is extensive practical work. Topics include: classes, objects, constructors and methods, java packages, inheritance, super-classes and subclasses, graphics in Java, event handling, layout managers and building GUIs.

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

RECOMMENDED READING

David J Barnes & Michael Kolling, (2016), Objects First with Java: A Practical Introduction Using BlueJ, 6th edition, Pearson Education, ISBN-13 978-1292159041.

Dietel and Dietel, (2017), Java How to Program, Early Objects, 11th Edition, Pearson Education, ISBN-13: 978-0134743356

1. **Learning and teaching methods**

38 contact hours

112 private study hours

Total hours 150

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

6 Java programming assignments, (40%), each assignment 4 hours workload.  
Programming mini-project (60%) 60 hours workload.

* 1. Reassessment methods

100% coursework

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* | *9.1* | *9.2* |
| **Learning/ teaching method** |  |  |  |  |  |
| **Private Study** | **x** | **x** | **x** | **x** | **x** |
| *Lectures* | **x** | **x** | **x** |  |  |
| *Workshops* | **x** | **x** | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |
| *Weekly assignments* | **x** | **x** | **x** | **x** | **x** |
| *Mini-project* | **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 Java programming language supports internationalisation in that applications can be adapted to various languages and regions without engineering changes. This course includes simple examples illustrating how programs can be internationalised.

**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) |
| 09/03/18 | Major | January 2019 | 8-10, 13 | No |
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