COURSE DETAILS

**Course Code:** F27SA

**Full Course Title:** Software Development 1

**SCQF Level:** 7

**SCAF Credits:** 15

**Available as Elective:** No

DELIVERY LEVEL

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<th>Postgraduate Taught</th>
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**Additional Information:**

COURSE AIMS

To introduce the object-oriented paradigm and the use of an object-oriented language.

LEARNING OUTCOMES – SUBJECT MASTERY

- Knowledge of the object-oriented paradigm
- Awareness of the contrast with other programming paradigms
- Manipulating objects in an IDE
- Understanding and using documentation in an API
- Reading, understanding, adapting, creating, and documenting object-oriented code

LEARNING OUTCOMES – PERSONAL ABILITIES

- Sharing work with random partners in laboratories using version control (pair programming)
- Deriving and creating own solutions to problems (pdp)
- Competence in the use of a command-line shell (pdp)
- Reading and running code, and modifying it

SYLLABUS

- Objects and classes
- Class definitions: fields, constructors, methods, parameters
- Selection and iteration
- Object interaction: main method, creating and using class instances.
- Grouping objects: collection classes, iterators, arrays
- Library classes, documentation
- Testing and debugging

COURSE RELATIONSHIPS

<table>
<thead>
<tr>
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