**COURSE DETAILS**

- **Course Code:** F27SA
- **Full Course Title:** Software Development 1
- **SCQF Level:** 7
- **SCAF Credits:** 15
- **Available as Elective:** No

**DELIVERY LEVEL**

- **Undergraduate:** Yes
- **Postgraduate Taught:** No
- **Postgraduate Research:** No

**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**

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<th>Course Code</th>
<th>Level</th>
<th>Title</th>
<th>School</th>
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**LOCATION AND ASSESSMENT METHODS**
### F27SA Software Development 1

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