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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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>
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<th>Course Code</th>
<th>Level</th>
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<td>F27SB</td>
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LOCATION AND ASSESSMENT METHODS
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