F27SA Software Development 1

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
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

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<th>School</th>
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LOCATION AND ASSESSMENT METHODS
### F27SA Software Development 1

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