# Course Details

**Course Code**: F28SD  
**Full Course Title**: Software Design  
**SCQF Level**: 8  
**SCAF Credits**: 15  
**Available as Elective**: No

## Delivery Level

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## Additional Information:

## Course Aims

- An introduction to a range of processes and methods that promote the design of high quality software systems.
- A perspective of where design sits within the development life-cycle.

## Learning Outcomes – Subject Mastery

- To demonstrate a critical understanding of software process models and design methods.
- To be able to develop design solutions using a range of structured notations.
- To demonstrate a critical understanding of the context in which software design takes place, in particular requirements engineering and the activities of validation and verification (testing).

## Learning Outcomes – Personal Abilities

- Take responsibility for own work and exhibit critical reflection on development process. (PDP)
- To be able to use appropriate methods and standards for practice and documentation in software engineering and information systems.
- Demonstrate evidence based approaches to problem solving.
- Use a range of numerical and graphical skills in evaluating and communicating ideas, as well as measuring progress toward achieving goals.

## Syllabus

- Software process models;
- Architectural styles;
- Design methods and associated notations – including function-oriented, object-oriented and component-based design; design patterns;
- Software development life-cycle issues, with particular focus on requirements engineering, validation and verification (testing).

## Course Relationships

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<th>Course Code</th>
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<td>Software Development 1</td>
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## Location and Assessment Methods

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## F28SD Software Design

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