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

DELIVERY LEVEL
Undergraduate: Yes  Postgraduate Taught: No  Postgraduate Research: No
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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<td>7</td>
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LOCATION AND ASSESSMENT METHODS
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