F28SX Software Design

COURSE DETAILS
Course Code: F28SX
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

COURSES RELATIONSHIPS
Course Code  Level  Title

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
• 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.
• To be aware of distinctive features of industrial practice
• To be able to identify, define, and analyse alternative project scenarios
• Take moderate responsibility for their work and exhibit critical reflection on development process
• To be able to relate learned knowledge to a work-based environment

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).
### F28SX Software Design

#### Course Details
- **Module Code**: F27SA
- **Module Name**: Software Development 1
- **School**: School of Math and Comp Sci.
- **Pre-Requisite**:

#### LOCATION AND ASSESSMENT METHODS

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