F20IF Information Systems Methodologies

COURSE DETAILS
Course Code: F20IF
Full Course Title: Information Systems Methodologies
SCQF Level: 10
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL
Undergraduate: Yes  Postgraduate Taught: No  Postgraduate Research: No

Additional Information:

COURSE AIMS
This course explores a range of issues concerning advanced contemporary methodological approaches to information systems development. The aim is to enable students to develop critical faculties and techniques in relation to the selection and application of these methodological approaches.

LEARNING OUTCOMES – SUBJECT MASTERY
This course develops further the knowledge and skills students should have already gained in the Information Systems and Software Engineering courses. It will enable students to:

- Determine alternative approaches to gathering requirements and systems development
- Compare methodologies for use in organisations using a standardised Framework
- Rationalise systems development to prepare a more relevant system
- Assimilate their knowledge and understanding of the ways in which Information Systems are developed, including a range of established techniques of enquiry or research methodologies

LEARNING OUTCOMES – PERSONAL ABILITIES

- Critical reading and reviewing works in the field
- Evaluating Methods under an agreed Framework
- Structuring an argument (PDP)
- Use of VLE as a means of learning

SYLLABUS
There is a growing requirement in industry for engineers and scientists with good and appropriate analytical skills when considering the development and evolution of systems, in particular information systems. This module develops further the knowledge and skills students should have already gained in the Information Systems and Software Engineering modules in topics such as:

- General Systems Principles;
- Systems Classification and Taxonomy Models;
F20IF Information Systems Methodologies

- Information Systems Life Cycle and Functions;
- Paradigmatic Approach to Methodology Classification;
- Framework for Analysis and Comparison of Methodologies (NIMSAD & Fitzgerald's);
- Process Improvement Models;

COURSE RELATIONSHIPS

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<th>Level</th>
<th>Title</th>
<th>School</th>
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<td>Professional Development</td>
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LOCATION AND ASSESSMENT METHODS

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