ZSOF H3201: Software Engineering (Cybercrime)

Module Title:	Software Engineering (Cybercrime)
Language of Instruction:	English

Credits:	5

NFQ Level:	7

Module Delivered In	No Programmes

Teaching & Learning Strategies:	Lectures, tutorials on specific techniques, continuous assessment, final exam

Module Aim:	To introduce OO Analysis and Design using UML, testing and basic project management

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Evaluate core software development processes
LO2	Apply project management principles to a software project
LO3	Employ object oriented software engineering principles. Concepts and techniques on new and existing projects
LO4	Appraise and apply software testing techniques

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.*
No requirements listed

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Module Content & Assessment

Indicative Content
Software Engineering Software development processes review, critique and practice: e.g. Waterfall, UP, Agile (e.g. Scrum, XP, Kanban) with particular emphasis on management activities (e.g. scheduling, costing)
OO Analysis, Design using the UML User requirements capture, use cases, OO Analysis & Design using core UML models e.g. class diagrams; sequence and activity diagrams
Testing Test cases design using black box and white box techniques, test-driven development and unit testing practices. User aacceptance testing, stress testing.

Assessment Breakdown	%
Continuous Assessment	25.00%
Practical	25.00%
End of Module Formal Examination	50.00%

Continuous Assessment

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Other	Creation of a development plan; discuss software engineering wisdom quotes; essays on topical software engineering issues/new development;	1,2,3	25.00	n/a

No Project

Practical

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Practical/Skills Evaluation	Developing requirements and design documents. Apply testing techniques on/from code and/or specifications;	1,4	25.00	n/a

End of Module Formal Examination

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Formal Exam	n/a	1,2,3,4	50.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

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Module Workload

Workload: Full Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	20 Weeks per Stage	3.00
Estimated Learner Hours	20 Weeks per Stage	4.00
	Total Hours	140.00