

ENGR: Software Engineering

Module Title:			Software Engineering		
Language of Instruction:		า:	English		
Credits: 5		5			
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NFQ Level:		7			
Module Delivered In			2 programme(s)		
Teaching & Learning Strategies:			Mix of tutorials, practicals delivery along with formative and summative assessments		
Module Aim:			To teach practical contemporary software engineering fundamentals in agile software development, object- oriented design and software testing.		
Learning Ou	itcomes				
On successf	ul completior	n of th	nis module the learner should be able to:		
LO1	Describe contemporary techniques and principles for the development of successful software products in a way that is convincing to other developers.				
LO2	Use appropriate processes, tools and technologies for the development of Web, Cloud and Mobile Apps by demonstrating their usage.				
LO3 Complete Object-Oriented design and software testing on authentic tasks and efficiently communicate the outcomes to othe developers.					
Pre-requisite learning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
<i>Incompatible Modules</i> 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 requireme	No requirements listed				



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Module Content & Assessment

Indicative Content						
Prerequisites 15% Review of module's prerequisites as necessary (agile OOA, Agile Process) and working environment.						
Software Engineering 10% Need for, issues, softw	Software Engineering 10% Need for, issues, software development process models, agile software project management.					
Entrepreneurship 5% Lean startups, Model Bu	usiness Ca	nvas.				
Agile Software Design 35% concepts and principle	s, software	architecture of Web, Cloud and Mobile Apps, desigr	n notations and basic	design pat	terns.	
Agile Coding 15% Web, Cloud and Mobile	e technolog	gies, supporting tools.				
Agile Software Verification 20% Defect testing practice, static verification, tools.						
Assessment Breakdown	Assessment Breakdown %					
Continuous Assessment				10.00%	10.00%	
Project 20.00				20.00%	.00%	
Practical 20.00%						
End of Module Formal Examination				50.00%		
Continuous Assessment						
Assessment Type		Assessment Description	Outcome addressed	% of total	Assessment Date	
Examination		Individual Written Test	1	10.00	Week 3	
Project						
Assessment Type	Assessm	ent Description	Outcome addressed	% of Assessment total Date		
Project Group Re		esearch Report and Presentation	1	10.00	Week 6	
Project	OO Desig	jn	3	10.00	Week 10	

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Individual Practical Test	3	10.00	Week 8
Practical/Skills Evaluation	Individual Practical Test	2	10.00	Week 12

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	No Description	1,3	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	12 Weeks per Stage	2.00	
Tutorial	12 Weeks per Stage	1.00	
Practicals	12 Weeks per Stage	1.00	
Estimated Learner Hours	15 Weeks per Stage	5.13	
	Total Hours	125.00	

Module Delivered In					
Programme Code	Programme	Semester	Delivery		
CW_KCSOF_B	Bachelor of Science (Honours) in Software Development	5	Mandatory		
CW_KCSOF_D	Bachelor of Science in Software Development	5	Mandatory		
Discussion Note:	ADF				