

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

Co-requisite Modules

No Co-requisite modules listed

No requirements listed

ENGR: Software Engineering

	University
) :	Software Engineering
f Instruction:	English
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7	
vered In	2 programme(s)
Learning	Mix of tutorials, practicals delivery along with formative and summative assessments
:	To teach practical contemporary software engineering fundamentals in agile software development, object-oriented design and software testing.
ıtcomes	
ul completion c	f this module the learner should be able to:
	temporary techniques and principles for the development of successful software products in a way that is other developers.
Use appropriate processes, tools and technologies for the development of Web, Cloud and Mobile Apps by demonstrating their usage.	
Complete Object-Oriented design and software testing on authentic tasks and efficiently communicate the outcomes to other developers.	
e learning	
	s ractical skill) that is recommended before enrolment in this module.
endations listed	
le Modules odules which h	ave learning outcomes that are too similar to the learning outcomes of this module.
ible modules lis	sted
	f Instruction: 5 7 vered In Learning : ttcomes al completion of convincing to their usage. Complete Obdevelopers. e learning commendation earning (or a pindations listed to Modules)



ENGR: Software Engineering

Module Content & Assessment

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Prerequisites

15% Review of module's prerequisites as necessary (agile OOA, Agile Process) and working environment.

Software Engineering
10% Need for, issues, software development process models, agile software project management.

Entrepreneurship 5% Lean startups, Model Business Canvas.

Agile Software Design 35% concepts and principles, software architecture of Web, Cloud and Mobile Apps, design notations and basic design patterns.

Agile Coding 15% Web, Cloud and Mobile technologies, supporting tools.

Agile Software Verification 20% Defect testing practice, static verification, tools.

Assessment Breakdown	%
Continuous Assessment	10.00%
Project	20.00%
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 Assessment Description Outcome addressed % of total Date				
Project	Group Research Report and Presentation	1	10.00	Week 6
Project	OO Design	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



ENGR: Software Engineering

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