Module Title:	Object Oriented Software Development 1
Language of Instruction:	English

Credits:	5

NFQ Level:	6

Module Delivered In	3 programme(s)

Teaching & Learning Strategies:	There will be 5 hours for practical work and short lectures (20-30 minute lectures). The practical sessions will provide students with the immediate opportunity to implement and reinforce the material presented in the short lectures.

Module Aim:	To introduce the general concepts of object oriented programming and software development

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Design and implement software solutions to complex problems using the object oriented paradigm.
LO2	Demonstrate an understanding of the object oriented paradigm
LO3	Implement object oriented constructs.

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

Module Content & Assessment

Indicative Content
Concepts of Object Oriented Programming Concepts of object oriented programming such as objects; classes; abstractions; associations; introduction to the object model.
Object oriented analysis Requirement specifications; identification of classes, attributes, operations and associations; use-cases; responsibilities.
Object oriented design Polymorphism; inheritance; generalisation; interaction diagrams, state transition diagrams. Unified Modelling Language

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

Continuous Assessment				
Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Other	In-lab programming test 1	2,3	20.00	Week 5
Other	Take Home project	1,2,3	30.00	Week 11

No Project

No Practical

End of Module Formal Examination				
Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Formal Exam	Formal written examination	1,2,3	50.00	End-of-Semester

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

Module Workload

Workload: Full Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	12 Weeks per Stage	1.00
Laboratory	12 Weeks per Stage	4.00
Estimated Learner Hours	15 Weeks per Stage	4.33
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCSOF_B	[Bachelor of Science (Honours) in Software Development](#)	3	Mandatory
CW_KCSOF_D	[Bachelor of Science in Software Development](#)	3	Mandatory
CW_KCCOM_C	[Higher Certificate in Science in Computing Programming](#)	3	Mandatory

Programme Code	Programme	Semester	Delivery