

<b>Module Title:</b>	Web Programming and Databases 1
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	<a href="#">8 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	There are two 1-hour lectures and four hours laboratory work per week. The laboratory sessions will provide students with the opportunity to work on practicing the programming material presented in lectures and any material presented during laboratory sessions. These supervised lab sessions will involve the use of appropriate programming tools and packages. The students will be expected to participate actively in lectures and lab sessions.
<b>Module Aim:</b>	To have students produce Web applications using client side technologies. To introduce students to Database theory and ER modelling.
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Create an interactive programmed website with client side technologies
LO2	Design a database model in support of specific web application requirements.
LO3	Have a basic knowledge of how to develop dynamic websites with database integration
<b>Pre-requisite learning</b>	
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Requirements</b> <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

**Module Content & Assessment**

Indicative Content
<b>Developing Dynamic client-side websites</b> Developing Dynamic client-side websites using client side coding including HTML5, Javascript and CSS
<b>Database Design</b> Introduction to Database Design and ER Modelling.
<b>Introduction to development of dynamic websites</b> Introduction to the development of Dynamic Web Sites with Database Integration using PHP and MySQL.

Assessment Breakdown	%
Continuous Assessment	25.00%
Practical	40.00%
End of Module Formal Examination	35.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Design an ER model for a specified enterprise scenario.	2	25.00	Week 7

No Project

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Work on the lab sheets provided weekly to practice applying concepts and techniques presented in lectures.	1,3	40.00	Every Week

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	This will be a practical exam that assesses all of the programming elements addressed in the Lectures and labs during the twelve weeks. It will be an open book exam.	1,3	35.00	End-of-Semester

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

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	12 Weeks per Stage	2.00
Laboratory	12 Weeks per Stage	4.00
Independent Learning	15 Weeks per Stage	3.53
Total Hours		125.00

**Module Delivered In**

Programme Code	Programme	Semester	Delivery
CW_KWCCD_B	<a href="#">Bachelor of Science (Honours) in Creative Computing and Digital Innovation</a>	3	Mandatory
CW_KCCYB_B	<a href="#">Bachelor of Science (Honours) in Cyber Crime and IT Security</a>	3	Mandatory
CW_KCCIT_B	<a href="#">Bachelor of Science (Honours) in Information Technology Management</a>	3	Mandatory
CW_KCSOF_B	<a href="#">Bachelor of Science (Honours) in Software Development</a>	3	Mandatory
CW_KCCYB_D	<a href="#">Bachelor of Science in Cybercrime and IT Security</a>	3	Mandatory
CW_KCCSY_D	<a href="#">Bachelor of Science in Information Technology Management</a>	3	Mandatory
CW_KCSOF_D	<a href="#">Bachelor of Science in Software Development</a>	3	Mandatory
CW_KCCOM_C	<a href="#">Higher Certificate in Science in Computing Programming</a>	3	Mandatory