

DEVL: Web Development and Databases

University				
Module Title:		Web Development and Databases		
Language of Instruction:		English		
Credits:	10			
NFQ Level:	7			
Module Deli	ivered In	<u>1 programme(s)</u>		
Teaching & Learning Strategies:		This module is delivered entirely within a laboratory setting. Learners are seated at their computers throughout the course delivery and are activity participating in class work throughout each scheduled session.		
Module Aim:		To introduce the student to web programming techniques and practice, with an emphasis on web framework and database technologies.		
Learning Ou	utcomes			
On successf	ful completion of t	his module the learner should be able to:		
LO1	Deploy HTML-based client-side web sites.			
LO2	Design and buil	d web-based server-side application programs.		
LO3	Inspect, query, create, and change data stored within a modern database management system.			
LO4	Design a database schema in support of application requirements.			
LO5	Integrate client-side web technologies with server-side web technologies.			
LO6	Integrate web applications with server-side database systems.			
Pre-requisit	te learning			
	c ommendations learning (or a prac	ctical skill) that is recommended before enrolment in this module.		
No recomme	endations listed			
Incompatibl These are m		re learning outcomes that are too similar to the learning outcomes of this module.		
No incompatible modules listed				
Co-requisite	e Modules			
No Co-requis	site modules listed	d		
Requiremen This is prior		ctical skill) that is mandatory before enrolment in this module is allowed.		
Successful c	completion of Year	r 2 (or equivalent).		



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Module Content & Assessment

Indicative Content
The Model-View-Controller Pattern n/a
The Web Development Infrastructure Client, server, content, protocol, client-side programming, server-side programming and database systems.
Static web sites with HTML. n/a
Server-side programming technologies. n/a
Dynamic web applications with server-side technologies n/a
Database Theory and SQL Database Theory (including schema design and an introduction to First Normal Form) and SQL (DML and DDL)
Dynamic web applications with database integration n/a
Introduction to web-based client-side programming technologies n/a

Assessment Breakdown	%
Continuous Assessment	40.00%
Practical	60.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Build a locally-hosted website using HTML/CSS.	1	20.00	n/a
Project	Automate the dynamic creation of web content using server-side development technologies.	2	20.00	n/a

No Project

Practical/Skills Design, build, and integrate a database-backend into a locally- developed webapp. 3,4 20.00 n/	Practical					
Evaluation developed webapp. Practical/Skills Deploy a database-backed webapp to a hosted environment (on 4,6 20.00 n/	Assessment Type	Assessment Description			Assessment Date	
			3,4	20.00	n/a	
			4,6	20.00	n/a	
Practical/Skills Built a full-stack web-hosted application, integrating client-side features with database-driven back-end technology. 5 20.00 n/			5	20.00	n/a	
		nal Examination				

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
Laboratory	15 Weeks per Stage	7.00
Estimated Learner Hours	15 Weeks per Stage	9.67
	Total Hours	250.00

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_KCCGD_B	Bachelor of Science (Honours) in Computer Games Development	5	Mandatory	
Discussion Note:	No change to workload per NW's email of 21 April.			