

No Co-requisite modules listed

Successful completion of Year 2 (or equivalent).

DATA H3204: Web Development & Databases

	XXI	University			
Module Title:		Web Development and Databases			
Language of Instruction:		English			
Credits:	5				
NFQ Level: 7					
Module Delivered In		No Programmes			
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 network programming techniques and practice, with an emphasis on web development and database technologies.			
Learning Outcomes					
On successful completion	on of th	is module the learner should be able to:			
LO1 Deploy H	TML-ba	ased client-side web sites.			
LO2 Design ar	Design and build web-based server-side application programs.				
LO3 Design a	Design a database schema in support of application requirements.				
LO4 Integrate	Integrate client-side web technologies with server-side web technologies.				
LO5 Integrate	Integrate web applications with server-side database systems.				
Pre-requisite learning					
Module Recommendate This is prior learning (or		tical skill) that is recommended before enrolment in this module.			
No recommendations listed					
Incompatible Modules These are modules which		e learning outcomes that are too similar to the learning outcomes of this module.			
No incompatible modules listed					
Co-requisite Modules					

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



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Module Content & Assessment

The Model-View-Controller Pattern

The Web Development Infrastructure
Client, server, content, protocol, client-side programming, server-side programming and database systems.

Static web sites with HTML.

Server-side programming technologies.

n/a

Dynamic web applications with server-side technologies

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

Introduction to web-based client-side programming technologies

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	Build a static web-site using HTML technologies (LO1). Build a custom web server to host server side applications (LO2). Extend the custom web server to integrate with SQLite3 (LO4). Build a web application for Googles App Engine (LO4, 5). Design and build a database with MySQL (LO3). Integrate MySQL within a custom web application (LO5).	1,2,3,4,5	50.00	n/a

No Project

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	No Description		50.00	Sem 1 End

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	20 Weeks per Stage	4.00
Estimated Learner Hours	20 Weeks per Stage	2.60
	Total Hours	132.00