

No requirements listed

DEVL H3701: Web Development

Module Title:			Web Development			
Credits: 10		10				
NFQ Level: 7						
Module Deli	vered In		2 programme(s)			
Teaching & Learning Strategies:			Lab tutorials and demonstrations of database and programming concepts. Problem briefs are then solved by students.			
Module Aim:			Create customer-centred dynamic web applications using standard web technologies. These web applications can be used in mobile and desktop browsers and mobile apps.			
Learning Ou	ıtcomes					
On successfu	ul completion	of th	is module the learner should be able to	o:		
LO1	Produce user-centred web applications as as part of multi-tier architecture					
LO2	Apply the fundamentals of programming using a server side scripting language to develop solutions for client requirements					
LO3	Design and develop a relational database as part of an multitier web architecture					
LO4	Produce a suite of server side scripting modules to create, read, update and delete data from the database as part of an multi-tier architecture					
Pre-requisite	e learning					
	ommendatio learning (or a		tical skill) that is recommended before	enrolment in this module.		
9785	9785 DSGN F		2701	Web Design Methods		
	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	Co-requisite Modules					
No Co-requisite modules listed						
Requiremen This is prior I		prac	tical skill) that is mandatory before enr	olment in this module is allowed.		



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Module Content & Assessment

Indicative Content

Relational Databases

An appreciation of relational database theory by being able to (a) Create table and relationship designs in relational databases according to best practices (b) Identify suitable queries to allow efficient storing and retrieval of information from databases (c) Appraise suitable DBMS currently available Produce a relational database by using: (a) An industry standard DBMS (b) A server connected to the network where the database can be deployed by the student

Server Side Programming

An understanding of the client server nature of data driven systems by (a) Outlining the request/response model (b) Identifying suitable server side scripting languages and their benefits (c) Appreciating the responsibilities of each tier in the N-Tier architecture 1. 2. Produce a suite of server side scripting modules to write and retrieve data from the database by using (a) An industry standard scripting language (b) A suitable Integrated Development Environment (IDE) (c) A deployment tool to load modules to a specified server to communicate with the database 3. Produce web forms by using (a) XHTML (b) CSS (c) A web authoring suite

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Continuous Assessment 2: Learning Outcomes Assessed • To gain competence in working in project development teams • To gain competence in presenting finished projects to clients • To gain competence in successfully managing a systems development project • To gain skills in server side scripting and deployment of modules to server • to gain skills in creating web forms using industry standards Sample: Required: A payroll processing website for remote contractors that allows users to i	1,2,3,4	50.00	n/a
Practical/Skills Evaluation	A substantial project is given for their final assessment submission. This will be data driven website that performs a number of different tasks for users The project must be deployed to a designated server, so as to be accessed in the college network. Learning Outcomes Assessed • To develop a knowledge of relational database theory • To develop a knowledge of Database Management Systems (DBMS) • To develop a knowledge of N-Tier architecture and the request/response model • To develop	1,2,3,4	50.00	n/a

No Project		
No Practical		
No End of Module Formal 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	12 Weeks per Stage	6.00	
Independent Learning	15 Weeks per Stage	6.00	
	Total Hours	162.00	

Workload: Part Time		
Workload Type	Frequency	Average Weekly Learner Workload
Laboratory	12 Weeks per Stage	3.00
Independent Learning	15 Weeks per Stage	4.00
	Total Hours	96.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_HWVCD_B	Bachelor of Art (Honours) in Visual Communications and Design	5	Mandatory
CW_HWVCD_D	Bachelor of Arts in Visual Communications and Design	5	Mandatory