

## DEVL H3701: Web Development

Module Title	:		Web Development	
Credits:		10		
NFQ Level:		7		
Module Deli	vered In		2 programme(s)	
Teaching & Strategies:	Learning		Lab tutorials and demonstrations of d students.	latabase and programming concepts. Problem briefs are then solved by
Module Aim	:			eb applications using standard web technologies. These web nd desktop browsers and mobile apps.
Learning Ou	itcomes			
On successf	ul completio	n of th	nis module the learner should be able t	0:
LO1	Produce u	ser-ce	entred web applications as as part of m	nulti-tier architecture
LO2	Apply the	fundar	mentals of programming using a serve	r side scripting language to develop solutions for client requirements
LO3	Design an	d deve	elop a relational database as part of ar	n multitier web architecture
LO4	Produce a multi-tier a			ate, read, update and delete data from the database as part of an
Pre-requisit	e learning			
Module Rec This is prior l			tical skill) that is recommended before	enrolment in this module.
9785	DS	GN H	2701	Web Design Methods
Incompatibl These are m		h hav	e learning outcomes that are too simila	ar to the learning outcomes of this module.
No incompat	ible module	s liste	d	
Co-requisite	Modules			
No Co-requis	site modules	s listec	1	
<b>Requiremen</b> This is prior l		a prac	tical skill) that is mandatory before en	rolment in this module is allowed.
No requirem	ents listed			



### DEVL H3701: Web **Development**

## **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 are backet the actual the actual the actual constraints of the actual constraint 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



## DEVL H3701: Web Development

# 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	