

# **DEVL: Cloud Development**

Module Title:			Cloud Development			
Language of Instruction:		n:	English			
Credits: 5		5				
		-				
NFQ Level:		7				
Module Delivered In			3 programme(s)			
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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 provide students with practical experience of developing applications for a managed networked environment, with a particular emphasis on cloud development technologies targeted towards the software engineer.			
Learning Ou	tcomes					
On successfu	ul completio	n of th	nis module the learner should be able to:			
LO1 Design, build, ar		uild, ar	nd deploy cloud-based server-side application programs.			
LO2 Integrate client-s		client-s	side web technologies with server-side cloud technologies.			
LO3 Integrate applica		applica	ations with server-side, cloud-hosted database systems.			
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Pre-requisite	e learning					
Module Reco This is prior le			tical skill) that is recommended before enrolment in this module.			
No recommen	ndations list	ted				
Incompatible		h hav	e learning outcomes that are too similar to the learning outcomes of this module.			
No incompati	ble module	s liste	d			
Co-requisite	Modules					
No Co-requis	ite modules	s listed	1			
<b>Requiremen</b> This is prior le		a prac	ctical skill) that is mandatory before enrolment in this module is allowed.			
No requireme	ents listed					



# **DEVL: Cloud Development**

# **Module Content & Assessment**

## Indicative Content

### Content

• 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. • Client-side programming technologies. • Web Frameworks, Templating Systems, and Databases. • Dynamic web applications with server-side technologies. • Dynamic web applications with database integration. • Cloud development and deployment technologies

Assessment Breakdown	%	
Project	100.00%	

No Continuous Assessment

Project							
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
Project	Build a locally-hosted webapp.	1	20.00	n/a			
Project	Port and deploy locally-hosted webapp to a cloud development environment.	1	20.00	n/a			
Project	Extend the locally-hosted webapp to exploit database technology.	1,3	20.00	n/a			
Project	Deploy locally-hosted database-enabled webapp to a cloud development environment.	1,3	20.00	n/a			
Project	Built a full-stack cloud-hosted application, integrating client-side features with database-driven back-end technology.	1,2,3	20.00	n/a			

No End of Module Formal Examination

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



# **DEVL: Cloud Development**

# Workload Frequency Workload Type Frequency Vorkload Type 12 Weeks<br/>per Stage Laboratory 12 Weeks<br/>per Stage Estimated Learner Hours 15 Weeks<br/>per Stage Total Hours 125.00

### Module Delivered In Programme Code Semester Delivery Programme CW\_KWCCD\_B Bachelor of Science (Honours) in Creative Computing and Digital Innovation 5 Mandatory CW\_KCSOF\_B 5 Bachelor of Science (Honours) in Software Development Mandatory CW\_KCSOF\_D 5 Bachelor of Science in Software Development Mandatory