

# COMP: Mobile, Social and IoT Computing

Module Title:		Mobile, Social and IoT Computing		
Language of Instruction:		English		
Credits:	10			
NFQ Level:	8			
Module Deli	vered In	1 programme(s)		
Teaching & Learning Strategies:		Delivery will be mostly practical based and also a number of lectures. Learners will be based in a computer lab and have access to emerging technology devices relevant to the module.		
Module Aim:		To provide learners with a theoretical knowledge of the emerging technologies that enable digital innovation and the practical skills to design and develop solutions including Internet of Things (IoT is the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors actuators, and connectivity which enables these objects to connect and exchange data), mobile and social media applications integration.		
Learning Ou	utcomes			
On successf	ul completion o	f this module the learner should be able to:		
LO1	Develop a hybrid mobile application using current tools and technologies			
LO2	Develop an IoT application using current and emerging technologies, platforms and tools			
LO3	Investigate the usage of emerging technologies for digital innovation			
LO4	Apply creative and innovative design strategies to mobile, social media integration and IoT applications that enables dig innovation			
LO5	Integrate theories and concepts of IoT, Social Media and Mobile APIs			
Pre-requisit	e learning			
	<b>ommendation</b> learning (or a p	<b>s</b> ractical skill) that is recommended before enrolment in this module.		
No recomme	endations listed			
Incompatibl These are m		ave learning outcomes that are too similar to the learning outcomes of this module.		
No incompat	ible modules lis	sted		
Co-requisite	e Modules			
No Co-requisite modules listed				
<b>Requiremen</b> This is prior		ractical skill) that is mandatory before enrolment in this module is allowed.		
No requirem	No requirements listed			



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### Module Content & Assessment

Indicative C	ontent
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Understanding of Emerging Technologies : IoT, Mobile and Social media Theory and concepts of Mobile devices application development, IoT platforms and technologies, APIs and communcations. Explore the usage and trends of emerging technologies used for digital innovation			
Design Strategies Models, processes and lifecycles of emerging technology applications for digital innovation			
Web Services and APIs Explore web services styles and API development			
Mobile Application Development Practical aspects of hybrid mobile application development			
IoT Practical aspects of IoT tools, platforms and technologies, M2M, smart devices, smart sensors			
Assessment Breakdown	%		
Project	50.00%		
Practical	50.00%		

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Design, develop and test an IoT/Mobile/Social Media Application as a solution to a digital innovation opportunity	3,4,5	50.00	n/a

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Practical work which demonstrates the students ability to use the features and functionalities of IoT technologies, mobile and social media APIs	1,2,5	50.00	n/a	
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
Practicals	12 Weeks per Stage	6.00
Independent Learning	15 Weeks per Stage	11.87
	Total Hours	250.00
Workload: Part Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	3.00
Assignment	15 Weeks per Stage	5.93
	Total Hours	125.00

Module Delivered In				
Programme Code	Programme	Semester	Delivery	
CW_KWCCD_B	Bachelor of Science (Honours) in Creative Computing and Digital Innovation	7	Mandatory	