

ZPRG C1201: Programming 1

Module Title:			Programming 1		
Credits: 5		5			
		I			
NFQ Level: 6		6			
			1		
Module Deli	vered In		8 programme(s)		
Teaching & Learning Strategies:			Combination of lectures and practical laboratory sessions. Lectures will take the form of traditional theory and workshop activities. Workshop activities entail interaction with students whilst building programs from scratch using data projector facilities. Laboratory sessions take the form of formative assessment sheets with individual interaction with students. There is a strong emphasis on writing code from scratch live in class on each new concept.		
Module Aim:			To provide the student with: 1. the problem solving skills necessary for programming 2. the basic concepts of programming. 3. the capability to develop complete programs		
Learning Ou	itcomos				
Learning Ot	licomes				
On successf	On successful completion of this module the learner should be able to:				
LO1 Comprehend and utilise problem solving techniques to analyse a problem and develop a solution for it;		d utilise problem solving techniques to analyse a problem and develop a solution for it;			
LO2 Write simple pro		ole pro	grams based on simple problem-solving algorithms they devise;		
LO3 Utilise and com		d comp	rehend core programming concepts		
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Pre-requisit	e learning				
Module Rec This is prior I			ctical skill) that is recommended before enrolment in this module.		
No recomme	ndations lis	ted			
Incompatibl These are m		h hav	e learning outcomes that are too similar to the learning outcomes of this module.		
No incompat	No incompatible modules listed				
Co-requisite	Modules				
No Co-requis	No Co-requisite modules listed				
Requiremen This is prior l		a prac	ctical skill) that is mandatory before enrolment in this module is allowed.		
No requirem	No requirements listed				



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Module Content & Assessment

Indicative Content

Introduction to problem solving Algorithms & pseudocode; translating pseudocode into program code; Introduction to a relevant language; identifiers, keywords, comments. Data types, variables, assignment statements, constants, arithmetic expressions and operators, operator precedence, console I/O.

Selection Control Conditional expressions (single and compound), selection control structures.

Iteration Control

Iteration control structures - fixed iteration and condition-controlled iteration structures.

Assessment Breakdown	%
Continuous Assessment	70.00%
End of Module Formal Examination	30.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Assessment 1: The student will be assessed on their understanding of basic programming concepts	3	20.00	Week 6
Other	Lab 2: The student will be assessed on their ability to write a program that utilises a selection structure.	1,2,3	20.00	Week 9
Other	Lab 3: The student will be assessed on their ability to write a program that utilises an iteration structure.	1,2,3	20.00	Week 12
Performance Evaluation	Active participation in the Lab	1,2,3	10.00	n/a
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No Project

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No Practical

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	Written exam assessing knowledge of concepts covered throughout semester.	1,2,3	30.00	End-of- Semester	

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



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Module Workload Workload: Full Time Average Weekly Learner Workload Workload Type Frequency 12 Weeks per Stage 2.00 Lecture 12 Weeks per Stage Laboratory 3.00 12 Weeks per Stage Tutorial 1.00 15 Weeks per Stage Estimated Learner Hours 3.53 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	1	Mandatory
CW_KCCYB_B	Bachelor of Science (Honours) in Cyber Crime and IT Security	1	Mandatory
CW_KCCIT_B	Bachelor of Science (Honours) in Information Technology Management	1	Mandatory
CW_KCSOF_B	Bachelor of Science (Honours) in Software Development	1	Mandatory
CW_KCCYB_D	Bachelor of Science in Cybercrime and IT Security	1	Mandatory
CW_KCCSY_D	Bachelor of Science in Information Technology Management	1	Mandatory
CW_KCSOF_D	Bachelor of Science in Software Development	1	Mandatory
CW_KCCOM_C	Higher Certificate in Science in Computing Programming	1	Mandatory