

ZPRG C1202: Programming 2

Module Title:		Programming 2		
Credits: 5				
NFQ Level:	6			
Module Delivered 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 Outcomes				
On successful comple	On successful completion of this module the learner should be able to:			
LO1 Create	D1 Create programs to implement strings;			
LO2 Create	Create programs to implement arrays;			
	Comprehend and implement in programs, object-oriented programming concepts such as abstraction, encapsulation, inheritance and polymorphism;			
Pre-requisite learnin	9			
Module Recommend This is prior learning (ctical skill) that is recommended before enrolment in this module.		
No recommendations	isted			
Incompatible Module These are modules wi		e learning outcomes that are too similar to the learning outcomes of this module.		
No incompatible modu	No incompatible modules listed			
Co-requisite Module	6			
No Co-requisite modu	es liste	t de la construcción de la const		
Requirements This is prior learning (or a pra	ctical skill) that is mandatory before enrolment in this module is allowed.		
No requirements listed				



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Module Content & Assessment

Indicative Content

Methods

Methods, parameter passing, return types, arguments, parameters, call by value, call by reference.

Strings String manipulation, string classes and methods

Arrays Concepts, declarations, creation, sorting and searching arrays, multidimensional arrays Objects

Classes, objects, methods, instance & local variables, scope, method parameters & return types, pass by value parameters, reference variables, access modifiers, object creation, object initialisation & constructors, inheritance, super keyword, constructors.

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	Lab 1: The student will be assessed on their ability to write a program that utilizes strings.	1	20.00	Week 6
Other	Lab 2: The student will be assessed on their ability to write a program that utilizes arrays	1,2	20.00	Week 9
Other	Written Assessment on Arrays of Objects & Methods	2,3	20.00	Week 12
Performance Evaluation	Active participation in the Lab	1,2,3	10.00	n/a
	Active participation in the Lab	1,2,3	10.00	n/a

No Project

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	2	Mandatory
CW_KCCYB_B	Bachelor of Science (Honours) in Cyber Crime and IT Security	2	Mandatory
CW_KCCIT_B	Bachelor of Science (Honours) in Information Technology Management	2	Mandatory
CW_KCSOF_B	Bachelor of Science (Honours) in Software Development	2	Mandatory
CW_KCCYB_D	Bachelor of Science in Cybercrime and IT Security	2	Mandatory
CW_KCCSY_D	Bachelor of Science in Information Technology Management	2	Mandatory
CW_KCSOF_D	Bachelor of Science in Software Development	2	Mandatory
CW_KCCOM_C	Higher Certificate in Science in Computing Programming	2	Mandatory