

COAP: Assembly and C

Module Title:			Assembly and C		
Language of Instruction:		n:	English		
		-			
Credits:		5			
NFQ Level:		8			
Module Deli	vered In		5 programme(s)		
Teaching & Learning Strategies:			Students will be assessed by means of continuous assessment.		
Module Aim:			To enable the student to program in assembly.		
Learning Ou	itcomes				
On successf	ul completio	n of th	nis module the learner should be able to:		
LO1	Program ir	ram in 80X86 assembly language;			
LO2	Understan	nderstand the use of arrays in assembly.			
LO3	Understand the passing of parameters in assembly.				
Pre-requisit	e learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					
No Co-requisite modules listed					
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.					
No requirements listed					



COAP: Assembly and C

Module Content & Assessment									
Indicative Content									
Introduction Introduction to CPU and Registers. Concepts of sequence, selection and iteration.									
Memory Variables Introduction to usage of memory variables									
Data movement instructions Moving values to from registers and moving values to from memory.									
Control transfer instructions Using control transfer instructions to call and jump to blocks of code.									
Arrays Using pointers to access array elements									
Stack Push and pop operations	s. Accessing elements from the stack.								
Parameter passing Pass parameters using a	assembly language								
C programming Introduction to programm	ning in c.								
Assessment Breakdow		%							
Continuous Assessment	1		100.00%						
Continuous Assessme	nt	1		1	1				
Assessment Type	Assessment Description	Outcome addressed		% of total	Assessment Date				
Other	In Class and/or In Lab Continuous Assessment	1,2,3		100.00	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



COAP: Assembly and C

Module Workload Workload: Full Time Average Weekly Learner Workload Workload Type Frequency 12 Weeks per Stage 1.00 Lecture 12 Weeks per Stage Laboratory 4.00 15 Weeks per Stage Independent Learning 4.33 **Total Hours** 125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCCYB_B	Bachelor of Science (Honours) in Cyber Crime and IT Security	4	Mandatory
CW_KCSOF_B	Bachelor of Science (Honours) in Software Development	4	Mandatory
CW_KCCYB_D	Bachelor of Science in Cybercrime and IT Security	4	Mandatory
CW_KCSOF_D	Bachelor of Science in Software Development	4	Mandatory
CW_KCCOM_C	Higher Certificate in Science in Computing Programming	4	Mandatory