

# COAP: Assembly and C

Module Title:			Assembly and C			
Language of Instruction:		n:	English			
Credits: 5		5				
NFQ Level: 6		6				
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Module Delivered 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 completior	n of th	nis module the learner should be able to:			
LO1	Program in	Program in 80X86 assembly language;				
LO2	Understand	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						
<b>Requirements</b> This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.						
No requirements listed						



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Indicative Content					
Introduction Introduction to CPU a	nd Registers. Concepts of sequence, selection and iteration	۱.			
Memory Variables	of memory variables				
Data movement instr Moving values to from	ructions registers and moving values to from memory.				
Control transfer inst Using control transfer	ructions instructions to call and jump to blocks of code.				
Arrays Using pointers to acce	ess array elements				
Stack Push and pop operation	ons. Accessing elements from the stack.				
Parameter passing Pass parameters usin	g assembly language				
C programming Introduction to program	nming in c.				
Assessment Breakdown			%		
Continuous Assessme	ent		100.00%		
Continuous Assessr	nent				
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					

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 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