Module code	SS-1204			
Module Title	Computer Architecture and Organisation			
Degree/Diploma	Bachelor of Science (Computer Science)			
Type of Module	Major Core			
Modular Credits	4	**Total student Workload**	10	hours/week
		Contact hours	4	hours/week
Prerequisite	None			
Anti-requisite	None			

Aims

In this module, the student can describe how different hardware components are interconnected to realise the architectural specifications of a computer system. The student can also apply low-level programming using assembly language.

Learning Outcomes

On successful completion of this module, a student will be expected to be able to:

Lower order :	20%	- explain the stages involved in decoding and executing instructions - illustrate basic concepts of interfacing to external devices
Middle order:	60%	- determine the functions of a given simple functional unit - compare different instruction set architectures
Higher order:	20%	- write assembly language programs - construct small scale logic circuits, given their functional specifications

Module Contents

- Digital logic and digital systems; Machine level representation; Assembly level programming
- Memory system; Interfacing; Functional organisation; Alternative architectures

Assessment	Formative assessment	Interactive Quizzes and Feedback
	Summative assessment	Examination: 50%
		Coursework: 50% - 2 class tests (20%) - 1 written assignment (15%) - 1 laboratory exercise (15%)