

Module code	SS-1202		
Module Title	Computer Systems and Information Technology		
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			
This module provides an overview of computer systems, web technology, computer network and information technology.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order:	20%	<ul style="list-style-type: none"> - compare different types of computers - explain the functions of various hardware and software components - explain the protocols used by common Internet applications 	
Middle order:	60%	<ul style="list-style-type: none"> - compare different kinds of programming languages - illustrate the functions of the different layers of network stacks 	
Higher order:	20%	<ul style="list-style-type: none"> - work out the different number systems - apply some basic programming approaches 	
Module Contents			
<ul style="list-style-type: none"> - History of computers, classifications of computers - Concepts: stored program model, number systems, character codes, Boolean algebra, memory and logic; Hardware components: input/output devices, processor, memory devices, mass storage devices; System software: operating systems, filing systems, schedulers - Programming languages: machine and assembly languages, high level languages, domain specific languages; Networks: topologies, protocols, OSI reference model - Internet: WWW, email, domain name, uniform resource identifier, protocols 			
Assessment	Formative assessment	Interactive Quizzes and Feedback	
	Summative assessment	Examination: 50% Coursework: 50% <ul style="list-style-type: none"> - 2 class tests (20%) - 1 written assignment (15%) - 1 laboratory exercise (15%) 	