

Module code	SS-2204		
Module Title	Systems Analysis and Design		
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	SS-2201 Internet Programming and Development		
Anti-requisite	SS-2208 System and Software Development		
Aims			
In this module, the student learns how to apply standard techniques in systems analysis and how to translate user requirements into feasible designs.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	20%	- explain the need of the various activities during a feasibility study - explain the various facets of systems requirements	
Middle order :	60%	- translate user requirements into explicit models - identify and eliminate redundancies in a system	
Higher order:	20%	- apply object-oriented techniques to model a system - produce documents that can be used as references by implementors	
Module Contents			
<ul style="list-style-type: none"> - Feasibility study: information gathering, cost-benefit analysis, risk assessment, user acceptance - Systems requirements: functionality, security, quality, transition plan - Fact finding and recording: interviewing, questionnaires, sampling, documentation - Structured analysis: data flow, data models, data normalization, entity relationship, process specification - Object-oriented analysis: encapsulation, inheritance, composition, use case, events, services, Unified Modeling Language - 			
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%) 	