Module code		SM-4336				
Module Title		Operations Research II				
Degree/Diploma		Bachelor of Science (Mathematics)				
Type of Module		Major Option				
Modular Credits		4	Total student Workload	10	hours/week	
			Contact hours	4	hours/week	
Prerequisite		SM-2203 Linear Algebra and its Applications and SM-2205 Intermediate				
		Statistics				
Anti-requisite		None				
Aims						
The module is designed for students to learn different optimization techniques that are applied to						
solve problems on manufacturing service, multi-factor decision making and other systems.						
Learning Outcomes						
On successful completion of this module, a student will be expected to be able to:						
Lower order : 40% - understand the characteristics of different types of decision-making					sion-making	
	environments					
Middle order :	40%	 use and apply appropriate decision making approaches 				
Higher order:	20% - interpret the results of the solution					
Module Contents						
- Decision tree and utility function.						
- Network Models.						
- Inventory Control model.						
- Forecasting Models.						
- Markov Analysis.						
- Queung meory.						
- Simulation.						
Assessment		ialive Tu	torial and reedback.			
	Sum	mativo Ev	amination: 60%			
	acco	sment Co	ursework: 10%			
	a3563		class tasts (10%)			
		- 2	CIASS (2010)			