Subject Description Form

Subject Code	COMP4127					
Subject Title	Information Systems Audit and Control					
Credit Value	3					
Level	4					
Pre-requisite / Co-requisite / Exclusion						
Objectives	The objectives of this subject are to:					
	1. recap of different information systems in operation and their management;					
	2. extend the potential graduates' horizon into the realm of audit and control aspects of information management;					
	3. evaluate the effectiveness of information systems; and					
	4. integrate the elements of risk assessment and cybersecurity in project management.					
Intended Learning Outcomes	Upon completion of the subject, students will be able to:					
	Professional/academic knowledge and skills					
	(a) apply the concept of audit in managing information systems and project management;					
	(b) identify various types of controls and develop new control measures;					
	(c) conduct audit exercises, collect and evaluate audit evidence.					
	<u>Attributes for all-roundedness</u>					
	(d) improve presentation and communication skills through various exercises;					
	(e) develop the ability to conduct group works and solve related problems; and					
	(f) think and reason in a critical manner, especially on different issues related to audit and control.					

Subject Synopsis/	Торіс					
Indicative	1. Information Systems Audit and Control					
Synabus	Nature of IS audit; concepts of auditing; types of audit; concepts of internal controls.					
	. Management Controls					
	Top management control frameworks: CobiT, COSO; ISO27001; systems development management controls; programming management controls.					
	. Applications Controls					
	Boundary controls; input/output controls; data validation edit and controls, processing controls; business process controls; testing application systems.					
	. Evidence Collection and Evaluation					
	Nature of evidence; evidence collection; computer-assisted audit techniques; analysis and review.					
	. Protection of Information Assets					
	Information security management; risk management concepts and methodologies; the process and components of information assets and risk management.					
	. The Application of IS Audit and Control					
	The application of IS audit and control in financial systems and industry: Basel; case studies.					
	. Business Continuity and Disaster Recovery					
	Concepts; the planning process and components; case studies.					
Teaching/ Learning Methodology	is subject emphasises both theoretical and practical aspects of information system dit and control. It is intended to provide students with knowledge and practical perience on conducting information systems audit projects. Guest seminars from a audit industry will be included. Various auditing tools, data analytics, simulation d exercises on information system audit will be provided in laboratory and tutoria ssions.					

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intend a	led sub	ject lea asse c	rning ou essed d	utcomes e	s to be			
	Continuous Assessment	- 55%									
	1. Assignments, Tests & Projects		✓	✓	~	~	~	~			
	Examination	45%	~	~	~	~	~	~			
	Total	100%									
Student Study	Class contact:										
Effort Expected	• Lecture					39 Hrs.					
	 Tutorial/Lab 							0 Hrs.			
	Other student study effort:										
	Assignments, Quizzes, Projects, Exam 80 Hrs							30 Hrs.			
	Total student study effort 11										
Reading List and References	 References: CISA Review Manual, ISACA publications. CRISC Review Manual, ISACA Publications. CISSP CBK, ISC2 publication Calder, Alan and Watkins, Steve, <i>IT Governance – An international guide to data security and ISO27001/ISO27002</i>. Whitman, Michael E. and Mattord, Herbert J., <i>Management of Information Security</i>, Cengage. ISACA Journal The Computer Journal, British Computer Society 										