Subject Description Form

Subject Code	ENG2003
Subject Title	Information Technology
Credit Value	3
Level	2
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	To provide the foundation knowledge in internet applications, computer networks, and database management that is essential to modern information system design
Intended Subject Learning Outcomes	Upon completion of the subject, students will be able to: Category A: Professional/academic knowledge and skills
	 Understand the functions and features of modern computing systems. Understand the client-server architecture and be able to set up multiple internet applications. Understand the principles of computer networks and be able to set up simple computer networks. Understand the basic structure of a database system and be able to set up a simple database system. Category B: Attributes for all-roundedness
	1. Solve problems using systematic approaches.
Subject Synopsis/ Indicative Syllabus	 Introduction to computers Introduction to information technology using Internet of Things as a real life example. Introduction to modern computing systems. Computer Networks Introduction to computer networks (Client-Server Architecture). Study different internet applications (HTTP/FTP/DNS). Explain basic concepts on packet routing (Data Encapsulation/IP Addressing/Functions of Routers). Introduction to basic network security measures. Introduction to data processing and information systems Database systems – architecture, relational database concept, structural query language (SQL), database management systems, Web and database linking, database application development. Introduction to Information systems. Workflow management. Case study: Database design, implementation and management.
Teaching/Learning Methodology	There will be a mix of lectures, tutorials, and laboratory sessions/workshops to facilitate effective learning. Students will be given case studies to understand and practice the usage of modern information systems.

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks w	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				
			A1	A2	A3	A4	B1
	1. Quizzes (in tutorials)	3%	V	√	V		V
	2. Quizzes (in lectures)	14%	V	√	V	1	V
	3. Workshops	14%	√	1	√	1	V
	4. Mid-term Test	11%	V	√	√		V
	5. Assignment	8%				V	V
	6. Examination	50%	V	√	V	1	V
	Total	100 %		•			
Student Study Effort Expected	Class contact: • Lectures (18), tutorials (6), and workshops (15)					39 Hours	
	Other student study effort:						
	Workshops preparation (6/workshop)					30 Hours	
	Self study (3/week)					39 Hours	
	Total student study effort					108 Hours	
Reading List and	B. Williams and S. Sawye Introduction to Computers	er, Using Infor					